Command Reference: ReadTimeSeriesList()

Read one or more time series using location identifiers from a table

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The ReadTimeSeriesList () command reads one or more time series using location identifiers from a table, an example of which is shown below as a comma-separated value file (tables can also be read from Excel or a datastore):

```
# Example list file. Comments start with the # character.
# Column headings can be specified in the first non-comment row using quotes.
"Structure ID", "Structure Name"
500501, Ditch 501
500502, Ditch 502
# Invalid ID (see IfNotFound parameter)
509999, Ditch 9999
```

The command typically is used when reading time series from a single source and can streamline processing in the following situations:

- A list of identifiers may have been generated from a database query
- A list of identifiers may have been extracted from a model data set

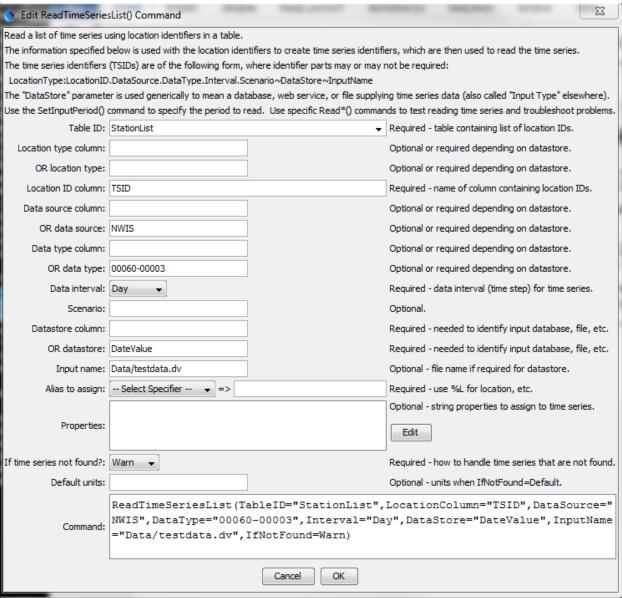
TSTool uses the location identifiers in the table with the command parameters and internally creates a list of time series identifiers. The time series are of the standard form (information in brackets is optional for basic use):

```
[LocationType:]Location.DataSource.DataType.Interval[.Scenario]~DataStore[~InputName]
```

TSTool then queries each time series using the time series identifier. See also the ReadTimeSeries () command, which performs essentially the same functionality but only reads one time series. Refer to the appendices for each datastore and file input type to understand specific time series identifier conventions.

Although it is possible to specify a datastore or input type that reads from files by also using the InputName, this is not generally recommended because the ReadTimeSeriesList() command can only specify one input file name and the file will be reopened for each time series read. Instead, read commands for specific file formats should be used because these commands typically are optimized to read multiple time series from the files. Use the SetInputPeriod() command to set the period to read.

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



ReadTimeSeriesList

ReadTimeSeriesList() Command Editor

The command syntax is as follows:

ReadTimeSeriesList(Parameter=Value, ...)

Command Parameters

Parameter	Description	Default
TableID	The identifier for the table that provides the list	None – must be specified.
	of location identifiers.	_
LocationType	The column in the table containing the location	May or may not be required,
Column	type to use in time series identifiers. Specify	depending on the datastore or
	LocationTypeColumn or LocationType.	input type.
LocationType	The location type in the time series identifier.	May or may not be required,
	Specify LocationTypeColumn or	depending on the datastore or
	LocationType.	input type.
LocationColumn	The column in the table containing the location	None – must be specified.
	identifiers to use in time series identifiers.	_
DataSource	The column in the table containing the data	May or may not be required,
Column	source to use in time series identifiers. Specify	depending on the datastore or
	DataSourceColumn or DataSource.	input type.
DataSource	The data source(s) in the time series identifier,	May or may not be required,
	separated by commas. For example, if using the	depending on the datastore or
	State of Colorado's HydroBase, USGS indicates	input type
	that data are from the United States Geological	
	Survey and DWR are from the Division of Water	
	Resources. If multiple data sources are	
	specified, each will be tried until a time series is	
	found. This is enabled because sometimes gages	
	change ownership. Specify	
	DataSourceColumn or DataSource.	
DataType	The column in the table containing the data type	Data type is often required
Column	to use in time series identifiers. Specify	
	DataTypeColumn or DataType.	
DataType	The data type in the time series identifier. For	Data type is often required
	example, if using the State of Colorado's	
	HydroBase, DivTotal is used for diversion	
	totals. Specify DataTypeColumn or	
	DataType.	
Interval	Data interval in the time series identifier, using	None – must be specified.
	standard values such as 15Minute, 6Hour,	
	Day, Month, Year.	
Scenario	Scenario in the time series identifier.	Usually not required.
DataStore	The data store (or input type) in the time series	None – must be specified.
	identifier. Refer to the datastore and input type	
	appendices or the TSTool main GUI for options.	
InputName	The input name in the time series identifier,	Generally only required when
	when a file name is required.	reading from a file.
Alias	Time series alias to assign, using a combination	No alias is assigned.
	of % specifiers and literal strings.	

Parameter	Description	Default
Properties	String properties to be assigned to the time series using syntax Property1:Value1, Property2:Value2	
IfNotFound	 Indicates how to handle missing time series, one of: Warn – generate fatal warnings and do not include in output. Ignore – generate non-fatal warnings and do not include in output. Default – generate non-fatal warnings and create empty time series for those that could not be found. This requires that a SetOutputPeriod() command be used before the command to define the period for default time series. 	Warn
DefaultUnits	Default units when IfNotFound=Default.	Blank – no units.

A sample command file to process monthly diversion data from the State of Colorado's HydroBase database is as follows:

```
# Read monthly diversion total from HydroBase for the structures in the list
# file. The data source is set to DWR because data source is saved in
```

ReadTimeSeriesList(TableID="Diversions.csv", LocationColumn="WDID",
 DataSource=DWR, DataType=DivTotal, Interval=Month, InputType=HydroBase,
 IfNotFound=Default)

[#] HydroBase.