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:

```
# 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

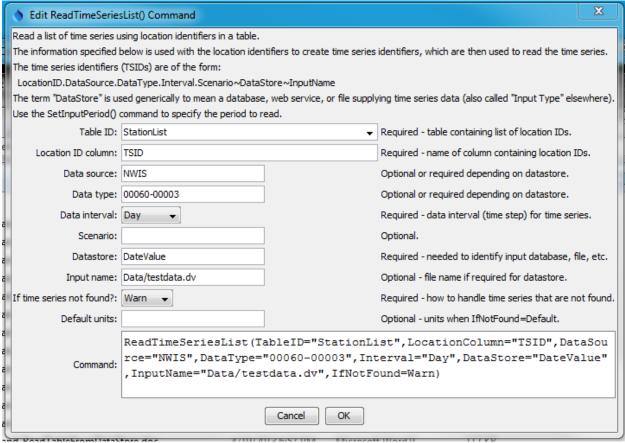
TSTool uses the location identifiers in the table with the command parameters and internally creates a list of time series identifiers. The time series are of the standard form:

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

where the brackets indicate optional information. TSTool then queries each time series, which can be processed further by other commands. See also the ReadTimeSeries() command, which performs essentially the same functionality but only reads one time series.

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 are typically 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() Command Editor

ReadTimeSeriesList

The command syntax is as follows:

ReadTimeSeriesList(Parameter=Value, ...)

Command Parameters

Parameter	Description	Default
TableID	The identifier for the table that provides the	None – must be specified.
	list of location identifiers.	_
LocationColumn	The column in the table containing the	None – must be specified.
	location identifiers to use in time series	
	identifiers.	
DataSource	The data source in the time series identifier.	May or may not be required,
	For example, if using the State of	depending on the datastore or input
	Colorado's HydroBase, USGS indicates that	type. Refer to the input type
	data are from the United States Geological	appendices.
	Survey. See the datastore and input type	
	appendices for more information on	
	available data types.	
DataType	The data type in the time series identifier.	Usually required. Refer to the

Parameter	Description	Default
	For example, if using the State of	datastore and input type
	Colorado's HydroBase, DivTotal is used	appendices.
	for diversion totals. See the input type	
	appendices for more information on	
	available data types.	
Interval	Data interval in the time series identifier,	None – must be specified.
	using 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	None – must be specified.
	series 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,	
	when a file name is required.	
IfNotFound	Indicates how to handle missing time series,	Warn
	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.	
DefaultUnits	Default units when	Blank – no units.
	IfNotFound=Default.	

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