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

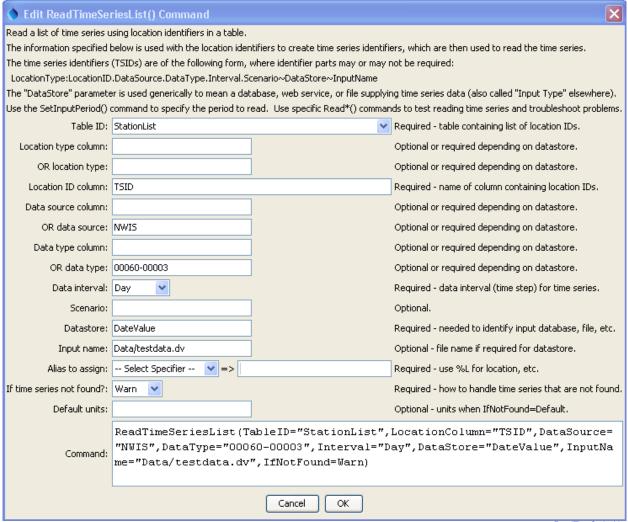
TSTool uses the location identifiers in the table with the command parameters and internally creates a list of time series identifiers. The time series are of the standard form (information in brackets is optional for basic use):

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

TSTool then queries each time series using the time series identiifier. 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() 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.	
LocationType	The column in the table containing the	May or may not be required,
Column	location type to use in time series	depending on the datastore or input
	identifiers. Specify	type.
	LocationTypeColumn or	
	LocationType.	
LocationType	The location type in the time series	May or may not be required,

Parameter	Description	Default
	identifier. Specify	depending on the datastore or input
	LocationTypeColumn or	type.
	LocationType.	
LocationColumn	The column in the table containing the	None – must be specified.
	location 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.	depending on the datastore or input
	Specify DataSourceColumn or	type.
	DataSource.	
DataSource	The data source(s) in the time series	May or may not be required,
	identifier, separated by commas. For	depending on the datastore or input
	example, if using the State of Colorado's	type
	HydroBase, USGS indicates 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	Data type is often required
Column	type to use in time series identifiers.	
	Specify DataTypeColumn or	
	DataType.	
DataType	The data type in the time series identifier.	Data type is often required
	For example, if using the State of	
	Colorado's HydroBase, DivTotal is used	
	for diversion totals. Specify	
	DataTypeColumn or DataType.	27
Interval	Data interval in the time series identifier,	None – must be specified.
	using standard values such as 15Minute,	
	6Hour, Day, Month, Year.	77 11
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	
Tnnu+Nama	GUI for options.	Conorally only required when
InputName	The input name in the time series identifier, when a file name is required.	Generally only required when reading from a file.
IfNotFound	Indicates how to handle missing time series,	Warn
	one of:	Wall
	Warn – generate fatal warnings and do not include in output	
	not include in output.	
	Ignore – generate non-fatal warnings and do not include in output	
	and do not include in output.	
	Default - generate non-fatal	

Parameter	Description	Default
	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)