

# Command Reference: ReadHecDss()

## Read time series from a HEC-DSS File

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The `ReadHecDss()` command reads time series from a HEC-DSS file. See the **HEC-DSS Input Type Appendix** for information about how time series properties are assigned using HEC-DSS file data. Current limitations for the command include:

- Irregular time series cannot be read.
- HEC-DSS uses times through 2400. However, TSTool will convert this to 0000 of the next day. Year, month, and day data are not impacted.

The following dialog is used to edit the command and illustrates the syntax for the command. In the future, it is envisioned that choices for A – F parts will be made available using data from the file.

Read time series from a HEC-DSS file.

Use \* in the A, B, C, E, and F parts to filter the time series that are read (or leave blank to read all).

The D part (start of period) is handled by specifying the input period.

Or, instead of specifying parts, specify the DSS pathname to read a specific time series (the path will be used before the parts).

The alias can be assigned for time series based on time series properties, for example use %L for location (A-part:B-part), %T for data type (C-part), %Z for scenario (F-part).

Specify a full path or relative path (relative to working directory) for a HEC-DSS file to read.

The working directory is: C:\owf-gitrepos\cdss-app-tstool-test\test\regression\commands\general\ReadHecDss

Specifying the input period will limit data that are available for fill commands but can increase performance.

HEC-DSS file to read: Results\sample.dss

A part (basin):  Optional - A part to match (default=match all).

B part (location):  Optional - B part to match (default=match all).

C part (parameter):  Optional - C part to match (default=match all).

E part (interval):  Optional - E part to match (default=match all).

F part (scenario):  Optional - F part to match (default=match all).

DSS pathname:  Optional - DSS pathname to read (default=use parts from above).

Input start:  Optional - overrides the global input start (default=read all).

Input end:  Optional - overrides the global input end (default=read all).

TSID location to assign:  Optional - use %A for A-part, etc. (default=%A:%B).

Alias to assign: -- Select Specifier -- =>  Optional - use %L for location, etc. (default=no alias).

Command:

ReadHecDss

### ReadHecDss() Command Editor

The command syntax is as follows:

```
ReadHecDss (Parameter=Value, ...)
```

### Command Parameters

Parameter	Description	Default
InputFile	The name of the HEC-DSS input file to read, surrounded by double quotes to protect whitespace and	None – must be specified.

Parameter	Description	Default
	special characters. Can be specified with <code>\${Property}</code> notation.	
A	The A part (basin name) to match, using * as a wildcard. The location type part of the TSTool time series identifier is set to this value. Can be specified with <code>\${Property}</code> notation.	Match all.
B	The B part (location) to match, using * as a wildcard. The location identifier part of the TSTool time series identifier is set to this value. Can be specified with <code>\${Property}</code> notation.	Match all.
C	The C part (parameter) to match, using * as a wildcard. The TSTool data type is set to this value. Can be specified with <code>\${Property}</code> notation.	Match all.
E	The E part (interval) to match, using * as a wildcard. Can be specified with <code>\${Property}</code> notation.	Match all.
F	The F part (scenario) to match, using * as a wildcard. Can be specified with <code>\${Property}</code> notation.	Match all.
Pathname	The HEC-DSS pathname for a time series, as specified in the HEC-DSS documentation. Currently wildcards are not allowed. If specified, this will be used instead of the A-F parameters. Can be specified with <code>\${Property}</code> notation.	Use the A-F parameters.
InputStart	Starting date/time to read data, in precision consistent with data. Can be specified with <code>\${Property}</code> notation.	Read all data.
InputEnd	Ending date/time to read data, in precision consistent with data. Can be specified with <code>\${Property}</code> notation.	Read all data.
Location	The location to assign for the time series identifier. Use %A ... %F to indicate the Apart ... Fpart (D part is not available). The assignment will impact the Alias assignment. This is useful when only Bpart is desired as the location identifier. Can be specified with <code>\${Property}</code> notation.	Apart:Bpart (%A : %B).
Alias	Alias to assign to the output time series. See the LegendFormat property described in the <b>TSView Time Series Viewing Tools</b> appendix. For example, %L is full location, %T is data type (parameter in HEC-DSS notation), %I is interval, and %Z is scenario. Can be specified with <code>\${Property}</code> notation.	None is assigned. However, if the location contains periods that are in conflict with time series identifier conventions, the alias is set to the identifier with periods, and the periods are replaced with spaces in the full time series identifier.

A sample command file is as follows:

```
ReadHecDss (InputFile="sample.dss", InputStart="1992-01-01",
  InputEnd="1992-12-31", Alias="%L %T %Z")
```