

# Command Reference: TS Alias = ReadHydroBase()

## Read a single time series from a HydroBase Database

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The `TS Alias = ReadHydroBase()` command reads a single time series from a HydroBase database (see the **HydroBase Input Type Appendix**) and assigns an alias to the result. This command should not be confused with the `ReadHydroBase()` command that does not use the alias, which reads one or more matching time series from a HydroBase database.

The following special actions occur, depending on data type:

1. Daily diversion (`DivTotal` and `DivClass`) and reservoir release (`RelTotal` and `RelClass`) time series have their values automatically carried forward to fill data within irrigation years (Nov to Oct). HydroBase only stores full months of data when non-zero observations or non-zero filled values occur in a month. Therefore, this filling action should only provide additional zero values. Irrigation years with no observations remain as missing after the read. See the `FillHistMonthAverage()` command, which is often used to fill completely missing years.
2. Daily, monthly, and yearly diversion and reservoir release time series can optionally be filled using diversion comments, which indicate when irrigation years should be treated as missing. See the `FillUsingDivComments` parameter below. Note that diversion comments should not conflict with more detailed records but and provide additional information. The older `FillUsingDivComments()` command is also available for filling.

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

**Edit TS Alias = ReadHydroBase Command**

Read a single time series from the HydroBase database.  
Refer to the HydroBase Input Type documentation for possible values.  
Specifying the period will limit data that are available for fill commands but can increase performance.  
If not specified, the period defaults to the query period.  
Filling with diversion comments applies only to diversion and reservoir release time series.

Time series alias:

Location:  For example, station or structure ID.

Data source:  For example: USGS, MWS.

Data type:  For example: Streamflow.

Data interval:  For example: 6Hour, Day, Month.

Input name:  HydroBase connection name (blank for default).

TSID (full):

Period to read:  to

Fill using diversion comments:  Whether to use diversion comments to fill more zero values (blank=False).

Fill using diversion comments flag:  1-character flag to indicate filled diversion comment values.

If missing:  How to handle missing time series (blank=VWarn).

Command:

```
TS NorthPoudreDiv =
ReadHydroBase(TSID="0300905999.DWR.DivTotal.Day~HydroBase",IfMissing=Ignore)
```

Cancel OK

ReadHydroBase\_Alias

**TS Alias = ReadHydroBase() Command Editor**

The command syntax is as follows:

```
TS Alias = ReadHydroBase (Parameter=Value...)
```

### Command Parameters

Parameter	Description	Default
Alias	Alias for the new time series that is read from the file.	None – must be specified.
TSID	A time series identifier to read – see the <b>HydroBase Input Type Appendix</b> .	Required – specify the time series identifier to read.
InputName	The HydroBase database connection input name to use for the connection, as initialized in <code>OpenHydroBase()</code> , which allows reading from more than one HydroBase in the same commands file.	Use the default HydroBase connection.
InputStart	The start of the period to read data – specify if the period should be different from the global input period.	Use the global input period.
InputEnd	The end of the period to read data – specify if the period should be different from the global input period.	Use the global input period.
FillUsingDivComments	Indicate whether to fill diversion and reservoir release time series using diversion comments.	False
FillUsingDivCommentsFlag	If specified as a single character, data flags will be enabled for the time series and each filled value will be tagged with the specified character. The flag can then be used later to label graphs, etc. The flag will be appended to existing flags if necessary.	No flag is assigned.
IfMissing	Indicate the action to be taken if the requested time series is missing, one of: <ul style="list-style-type: none"> <li>Ignore – ignore the time series (do not warn and the time series will not be available)</li> <li>Warn – generate a failure for the command</li> </ul>	Warn

A sample command file to read a diversion time series is as follows:

```
TS NorthPoudreDiv = ReadHydroBase(TSID="0300905.DWR.DivTotal.Day~HydroBase")
```

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