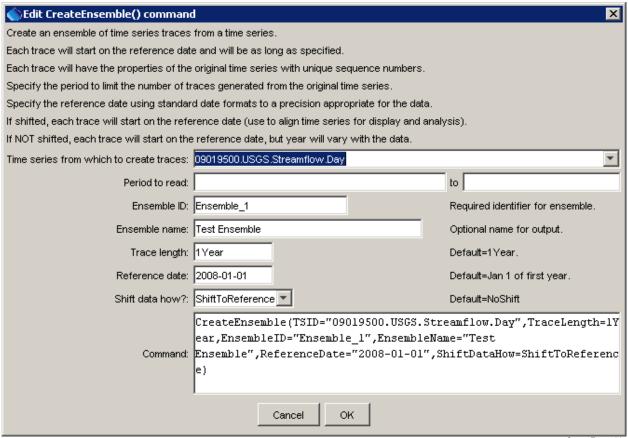# Command Reference: CreateEnsemble()

Create a new ensemble from a time series

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The `CreateEnsemble()` command creates an ensemble by splitting up a time series into traces. For example, a historical time series can be split into 1-year traces that are shifted to start in the current year.

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

CreateEnsemble() Command Editor

The command syntax is as follows:

```
CreateEnsemble(Parameter=Value,…)
```

Command Parameters

Parameter	Description	Default
TSID	The time series identifier or alias for the time series used to create the ensemble.	None – must be specified.
InputStart	The date/time to start transferring data from the time series.	Use all data.
InputEnd	The date/time to end transferring data from the time series.	Use all data.
EnsembleID	The new ensemble identifier.	None – must be specified.
EnsembleName	The name for the new ensemble.	Blank.
TraceLength	An interval for the trace length (e.g., 1Year, #Month or, #Day).	1Year
ReferenceDate	The reference date indicates the starting date for each trace and should be left blank (resulting in a default of January 1 of the current year), or set to January 1 of a year of interest (use the format 01/01/YYYY or YYYY-MM-DD). Each trace can optionally be shifted (see ShiftDataHow).	January 1 of the first year in the source time series.
ShiftDataHow	Indicates whether the traces should be shifted. Possible values are: • ShiftToReference – each trace will be shifted to the reference date, resulting in overlapping time series. • NoShift – plotting the traces will result in a total line that matches the original time series, except that each trace can be manipulated individually.	NoShift

A sample commands file to read a time series from the State of Colorado's HydroBase and create an ensemble from the time series is as follows:

```
# 09019500 - COLORADO RIVER NEAR GRANBY
09019500.USGS.Streamflow.Day~HydroBase
CreateEnsemble(TSID="09019500.USGS.Streamflow.Day",
  TraceLength=1Year,EnsembleID="Ensemble_1",EnsembleName="Test
Ensemble",ReferenceDate="2008-01-01",ShiftDataHow=ShiftToReference)
```