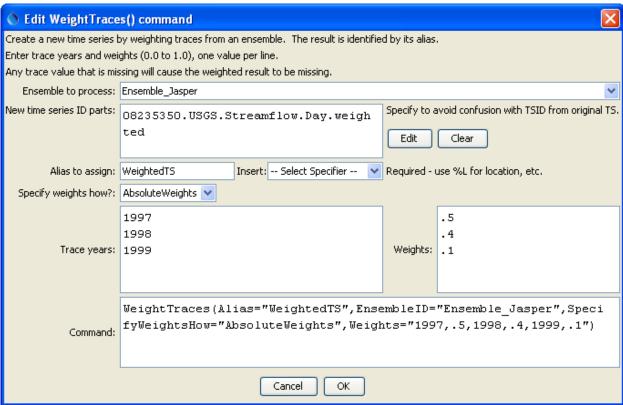
## Command Reference: WeightTraces()

Create a time series by weighting data from time series ensemble traces

Version 10.00.00, 2011-03-28

The WeightTraces () command creates a new time series as a weighted sum of time series ensemble traces, for example as produced by a CreateEnsemble () command. If any trace contains missing data for a point, the resulting time series value will also be missing. Note that this approach may not be appropriate for some analyses – the user should evaluate the implications of whether the weighted result appropriately reflects the (in)dependence of input data.

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



WeightTraces() Command Editor

WeightTraces

The command syntax is as follows:

WeightTraces(Parameter=Value,...)

The following older command syntax is updated to the above syntax when a command file is read:

TS Alias = WeightTraces(Parameter=Value,...)

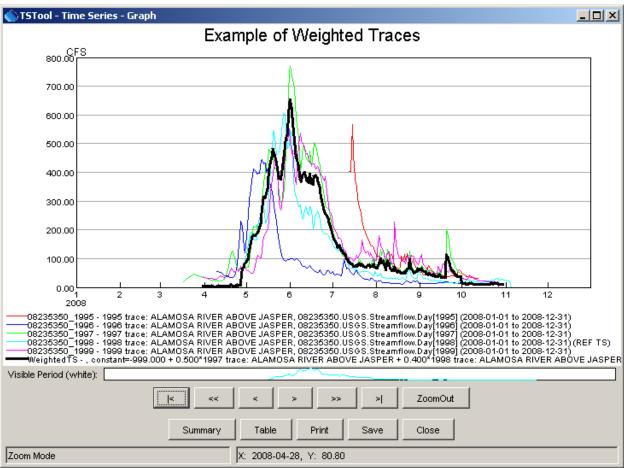
## **Command Parameters**

Parameter	Description	Default
EnsembleID	The ensemble identifier indicating time series to be processed (e.g., from a CreateEnemble() command). Time series matching the years specified by the Weights parameter will be processed.	None – must be specified.
NewTSID	The time series identifier for the new time series that is created. This typically uses the same information as the original time series, with an added scenario.	None – must be specified.
Alias	The alias to assign to the time series, as a literal string or using the special formatting characters listed by the command editor. The alias is a short identifier used by other commands to locate time series for processing, as an alternative to the time series identifier (TSID).	None – must be specified.
SpecifyWeightsHow	Weights are currently only applied as AbsoluteWeights (in the future an option may be added to normalized weights to 1.0 accounting for missing data in the traces).	Must be AbsoluteWeights.
Weights	Specify pairs of trace year and weights (0-1.0), used to create the new time series. Trace years must be manually entered because at the time that the command is edited, time series have not yet been queried. The weights do not need to add to 1. Example data are: 1995, .5, 1998, .3, 2005, .2	None – must be specified.

A sample commands file is as follows (longer commands that wrap are shown indented):

UserManualExamples/TestCases/CommandReference/WeightTraces/WeightTraces.TSTool

The results from the commands are shown in the following graph:



Results of the WeightTraces() Command

WeighTraces\_Graph

WeightTraces() Command	TSTool Documentation
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