

Command Reference: SetDiversionSystem()

Set diversion system parts

StateCU and StateMod Command

Version 3.08.02, 2010-01-07

The `SetDiversionSystem()` command sets diversion system part identifier data for a diversion (a CU Location that corresponds to a diversion or D&W node or StateMod diversion station). Diversion systems are specified using a list of ditch identifiers, and the system information applies for the full model period (does not vary by year). To facilitate processing, it is often best to use list files to specific systems (see `SetDiversionSystemFromList()`). Systems by convention have their water rights fully represented in output – to aggregate water rights at a location, use an aggregate (see the similar Aggregate commands). See also the StateDMI **Introduction** chapter, which provides additional information about systems and other modeling conventions. System information should be specified after diversion locations are defined and before their use in other processing, such as reading data from HydroBase.

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

Edit SetDiversionSystem() Command

This command sets a Diversion System location's information.
Each System is a location where individual parts are combined into a single feature.
An "Aggregate" is used with `SetDiversionAggregate()` when water rights will be aggregated into classes.
A "System" is used with `SetDiversionSystem()` when individual water rights will be maintained.
For example, multiple nearby or related ditches may be grouped as a single identifier.
When grouping ditches, specify the diversion station IDs for parts.
Separate the part IDs by spaces or commas.

Diversion System ID: Required - specify the Diversion System ID.

Part IDs: Required - up to 12 characters for each ID.

If not found: Optional - indicate action if no ID match is found (default=Warn).

Command:

SetDiversionSystem

SetDiversionSystem() Command Editor

The command syntax is as follows:

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

Command Parameters

Parameter	Description	Default
ID	The diversion identifier to associate with the collection of individual diversions.	None – must be specified.
PartIDs	The list of part identifiers to comprise the system, for example ditch WDIDs that will be found in HydroBase. The part identifiers are by default of type Ditch.	None – must be specified.
IfNotFound	Used for error handling, one of the following: <ul style="list-style-type: none">• Fail – generate a failure message if the identifier is not matched• Ignore – ignore (don't add and don't generate a message) if the identifier is not matched• Warn – generate a warning message if the identifier is not matched	Warn