
Command Reference: SetWellSystem()

Set well system parts

StateCU and StateMod Command

Version 4.00.00, 2016-05-19

The `SetWellSystem()` command sets well system part identifier data for a well (a CU Location that corresponds to a location with well supply, or StateMod well station). Well systems are specified using a list of part identifiers as follows:

- Part type is `Ditch` – the collection includes wells that are associated with a list of ditches, identified using ditch water district identifiers (WDIDs). The list of ditches is used for the full period.
- Part type is `Parcel` – the collection includes wells that are associated with a list of parcels. The division and year must be specified in the command because well to parcel relationships are determined for specific years.
- Part type is `Well` – the collection includes wells identified by well WDID or well permit “receipt”. Receipts should be specified with a leading `P:` (e.g., `P:1234567A`) in which case the leading `P:` will be stripped and the remainder used for the receipt during processing. The internal part ID type will be set to `WDID` or `Receipt`, as appropriate.

To facilitate processing, it is often best to use list files to specific aggregates (see `SetWellSystemFromList()`). 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 aggregates and other modeling conventions. System information should be specified after well 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 SetWellSystem() Command

This command sets a Well System location's information.

Each System is a location where individual parts are combined into a single feature.

An "Aggregate" is used with SetWellAggregate() when water rights will be aggregated into classes.

A "System" is used with SetWellSystem() when individual water rights will be maintained.

For example, well-only parcels may be grouped as a single identifier.

Wells associated with ditches are grouped by specifying ditch identifiers and apply for the full period.

When grouping wells using parcels, specify parcel identifiers for the parts. Indicate the year and water division for the parcel data.

When grouping wells using well identifiers, specify a list of WDIDs or P:receipt for permits.

Separate the part IDs by spaces or commas.

Well System ID:

System part type:

Year:

Water division (Div):

Part IDs:

0100501, 0100502, P:1234567A

If not found:

Command:

SetWellSystem(ID="Well3", PartType=Well, PartIDs="0100501, 0100502, P:1234567A")

Required - specify the Well System ID.

Required - the type of features being aggregated.

Required for part type Parcel - year for the parcels.

Required for part type Parcel - water division for the parcels.

Required - up to 12 characters for each ID.

Optional - indicate action if no ID match is found (default=Warn).

OK

Cancel

SetWellSystem() Command Editor

The command syntax is as follows:

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

Command Parameters

Parameter	Description	Default
ID	The well identifier to associate with the collection of individual wells.	None – must be specified.
PartType	Indicate the type of features being aggregated and specified by PartIDs, one of: <ul style="list-style-type: none"> Ditch – the PartIDs (ditch WDIDs) indicate ditch service areas supplemented by wells. Parcel – the PartIDs (parcel numbers from GIS processing) indicate parcels irrigated by wells, with no surface water supply. Well – the PartIDs indicate wells (WDIDs or permit receipts), with no surface water supply. Include P: at the start of receipt identifiers. 	None – must be specified.
Year	The year defining the parcels.	Required when PartType is Parcel because parcel identifiers from well matching are specific to the data year.
Div	Water division for the parcels in the system.	Required when PartType is Parcel because parcels require the division.
PartIDs	The list of part identifiers to comprise the system.	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

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