Command Reference: SetDiversionAggregateFromList()

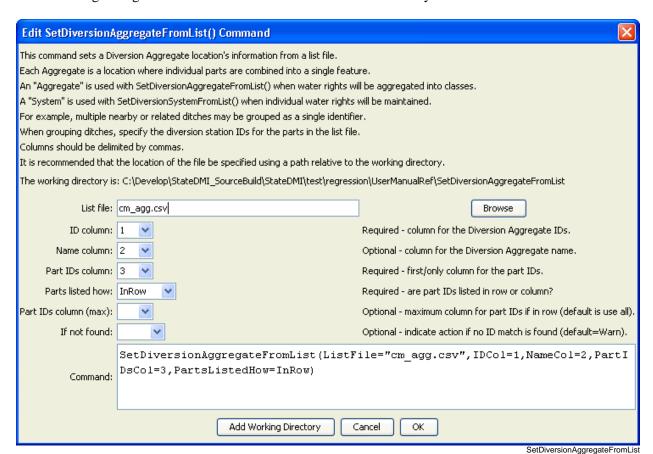
Set diversion aggregate parts from data in a list file

StateCU and StateMod Command

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The SetDiversionAggregateFromList() command sets diversion aggregate part identifier data for a diversion (a CU Location that corresponds to a diversion or D&W node or StateMod diversion station). Diversion aggregates are specified using a list of ditch identifiers, and the aggregation information applies for the full model period (does not vary by year). To facilitate processing, the list of parts is specified in a delimited list file. Aggregates by convention have their water rights grouped into classes – to represent all water rights at a location, use a system (see the similar System commands). See also the StateDMI Introduction chapter, which provides additional information about aggregates and other modeling conventions. Aggregate 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.



SetDiversionAggregateFromList() Command Editor

The command syntax is as follows:

SetDiversionAggregateFromList(Parameter=Value,...)

Command Parameters

Parameter	Description	Default
ListFile	The name of the input file to read, surrounded by double quotes.	None – must be specified.
IDCol	The column number (1+) containing the aggregate diversion identifiers.	None – must be specified.
NameCol	The column number (1+) containing the aggregate diversion name.	None – optional (name will remain as previously defined).
PartIDsCol	The column number (1+) for the first column having part identifiers. The identifiers are ditch WDIDs that will be found in HydroBase. The part identifiers are by default of type Ditch.	None – must be specified.
PartsListedHow	If InRow, it is expected that all parts defining an aggregate are listed in the same row (as shown in the example below). If InColumn, it is expected that the parts defining an aggregate are listed one per row, with multiple rows defining the full aggregate (PartIDsColMax is ignored in this case).	None – must be specified.
PartIDsColMax	The column number (1+) for the last column having part identifiers. Use if extra columns on the right need to be excluded from the list.	Use all available non-blank columns starting with PartIDsCol.
IfNotFound	Used for error handling, one of the following: • Fail – generate a failure message if the aggregate identifier is not matched • Ignore – ignore (don't add and don't generate a message) if the aggregate identifier is not matched • Warn – generate a warning message if the aggregate identifier is not matched	Warn

An example list file is shown below:

```
51_ADC001,Colorado River nr Granby,510580,510663,510703,510704,510707,510833,510841,510974,511032,511033,511048  
51_ADC002,Willow Creek,510742,510818,510819,510847,510920,510930,510962  
51_ADC003,Ranch Creek,510513,510568,510606,510681,510708,510727,510767  
...
```

The following command file illustrates how diversion aggregates are defined with this command and how the aggregate classes are specified when reading diversion rights from HydroBase:

```
# ddr.commands.StateDMI
  StateDMI command file to create the direct diversion rights file for the Colorado
model
#
  Step 1 - read structures from preliminary direct diversion station file
ReadDiversionStationsFromStateMod(InputFile="cm2005_dds.dds")
  Step 2 - read aggregate and diversion system structure assignments. Note that
#
         want to combine water rights for aggs and diversion systems, but
         water rights are assigned to primary and secondary components of
multistructures
SetDiversionAggregateFromList(ListFile="cm_agg.csv",IDCol=1,NameCol=2,PartIDsCol=3,
 PartsListedHow=InRow)
SetDiversionSystemFromList(ListFile="cm_divsys.csv",IDCol=1,NameCol=2,PartIDsCol=3,
  PartsListedHow=InRow)
  Step 3 - read diversion rights from HydroBase and define water rights classes
#
            used for aggregate structures - but NOT for diversion systems
#
ReadDiversionRightsFromHydroBase(ID="*",OnOffDefault=1,
  AdminNumClasses="14854.00000,20427.18999,22729.21241,30895.21241,31258.00000,
  32023.28989,39095.38998,43621.42906,46674.00000,48966.00000,999999.")
  Step 4 - set water rights for structure IDs different from or not included in
HydroBase
# Grand Valley Area - many rights obtain water through operations
SetDiversionRight(ID="720646.02",Name="Orchard Mesa Irr Dist
Sys",StationID="ID",OnOff=1,IfNotFound=Add,IfFound=Set)
SetDiversionRight(ID="720646.03", Name="Orchard Mesa Irr Dist
Sys", StationID="ID", OnOff=1, IfNotFound=Add, IfFound=Set)
SetDiversionRight(ID="720646.05", Name="USA Power
Plant", StationID="ID", Decree=800.0, OnOff=1, IfNotFound=Add, IfFound=Set)
SetDiversionRight(ID="720646.07", Name="Grand Valley
Proj", StationID="ID", AdministrationNumber=22729.19544, Decree=40.0, OnOff=1,
  IfNotFound=Add, IfFound=Set)
... commands omitted
#
  Step 7 - create direct diverison rights file
#
WriteDiversionRightsToStateMod(OutputFile="cm2005.ddr")
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StateDMI Documentation

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