
Command Reference: SetReservoirStation()

Set reservoir station data

StateMod Command

Version 3.09.01, 2010-02-01

The `SetReservoirStation()` command sets data in existing reservoir stations or adds a new reservoir station. Because there are a large number of parameters, it may be desirable to use several commands for the same reservoir. Only one reservoir account can be assigned per command – an account identifier of 1 will clear all accounts before new accounts are defined. Bounding zero and high-end records are not automatically added for the content/area/seepage data – modelers must specify the bounds to prevent StateMod errors (the `FillReservoirStationsFromHydroBase()` command will provide bounding values).

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

Edit SetReservoirStation() Command

This command edits data in reservoir station(s), using the reservoir station ID to look up the location.
The reservoir station ID can contain a * wildcard pattern to match one or more locations.
If the reservoir station ID does not contain a * wildcard pattern and does not match an ID,
the location will be added if the "If not found" option is set to Add.
Use blanks in the any field to indicate no change to the existing value.
Only one account can be edited with each command (use additional commands for account 2+).

Reservoir station ID:	<input type="text" value="363543"/>	Required - reservoir stations to fill (use * for wildcard).
Name:	<input type="text"/>	Optional - up to 24 characters for StateMod.
River node ID:	<input type="text"/>	Optional - river node identifier or "ID".
On/Off:	<input type="button" value="3 - On, do store above reservoir targets"/> ▾	Optional - is reservoir station on/off in data set?
One fill rule:	<input type="button" value="4 - April"/> ▾	Optional - one fill rule administration switch.
Daily ID:	<input type="text" value="5"/>	Optional - daily identifier, "ID", or StateMod flag).
Content (minimum):	<input type="text" value="0"/>	Optional - minimum content, AF.
Content (maximum):	<input type="text" value="154645"/>	Optional - maximum content, AF.
Release (maximum):	<input type="text" value="4010"/>	Optional - maximum release, CFS.
Dead storage:	<input type="text" value="0"/>	Optional - dead storage, AF.

Accounts (must use one command for each account - use multiple commands with only this section complete if necessary)

Account ID:	<input type="text" value="1"/>	Required if setting account - account number (position in data), 1+.
Account name:	<input type="text" value="Hist_Users"/>	Optional - account name.
Maximum storage:	<input type="text" value="66000"/>	Optional - account maximum storage (ACFT).
Initial storage:	<input type="text" value="0"/>	Optional - account initial storage (ACFT).
Evaporation distribution:	<input type="button" value="0 - Prorate evaporation based on current storage"/> ▾	Optional - evaporation distribution option.
One fill rule calculation:	<input type="button" value="1 - Ownership is tied to first fill right(s)"/> ▾	Optional - ownership for one fill rule calculation.

Evaporation stations:	<input type="text" value="10008,100"/>	Optional - ID1,%; ID2,%...
Precipitation stations:	<input type="text"/>	Optional - ID1,%; ID2,%...
Content/Area/Seepage:	<div style="border: 1px solid black; height: 100px;"></div>	Optional - use format: Content,Area,Seepage (one record per line)

If not found:	<input type="button" value="Warn"/> ▾	Optional - indicate action if no match is found (default=Warn).
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Command:

```
SetReservoirStation(ID="363543",OnOff=3,OneFillRule=4,DailyID="5",ContentMin=0,ContentMax=154645,ReleaseMax=4010,DeadStorage=0,AccountID=1,AccountName="Hist_Users",AccountMax=66000,AccountInitial=0,AccountEvap=0,AccountOneFill=1,EvapStations="10008,100",IfNotFound=Warn)
```

SetReservoirStation

SetReservoirStation() Command Editor

The command syntax is as follows:

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

Command Parameters

Parameter	Description	Default
ID	A single reservoir station identifier to match or a pattern using wildcards (e.g., 20*).	None – must be specified.
Name	The name to be assigned for all matching reservoir stations.	If not specified, the original value will remain.
RiverNodeID	The river node identifier to be assigned for all matching reservoir stations. Specify ID to assign to the reservoir station identifier.	If not specified, the original value will remain.
OnOff	The on/off switch value to be assigned for all matching reservoir stations, either 1 for on or 0 for off.	If not specified, the original value will remain.
OneFillRule	The date for one fill rule administration (see the StateMod documentation) to be assigned for all matching reservoir stations.	If not specified, the original value will remain.
DailyID	The daily identifier to be assigned for all matching reservoir stations.	If not specified, the original value will remain.
ContentMin	The reservoir minimum content, ACFT.	If not specified, the original value will remain.
ContentMax	The reservoir maximum content, ACFT.	If not specified, the original value will remain.
ReleaseMax	The reservoir maximum release, CFS.	If not specified, the original value will remain.
DeadStorage	The reservoir dead storage, ACFT.	If not specified, the original value will remain.
AccountID	A reservoir account identifier, a number 1+. Reservoir accounts in the StateMod reservoir station are identified only by the account name. This AccountID lets the software know the order of the accounts. If the AccountID is specified as 1, all the accounts are deleted and a new list of accounts is started. Therefore, specify account information in sequential order.	Must be specified when providing account information.
AccountName	A reservoir account name.	If not specified, the original value will remain.
AccountMax	The account maximum content, ACFT.	If not specified, the original value will remain.
AccountInitial	The account initial content, ACFT.	If not specified, the original value will remain.

Parameter	Description	Default
AccountEvap	The account evaporation distribution – see the StateMod documentation.	If not specified, the original value will remain.
AccountOneFill	The account information for one fill calculations – see the StateMod documentation.	If not specified, the original value will remain.
EvapStations	A list of evaporation stations and weights (%) for the reservoir station, using the format: ID, % ; ID, %	If not specified, the original value will remain.
PrecipStations	A list of precipitation stations and weights (%) for the reservoir station, using the format: ID, % ; ID, %	If not specified, the original value will remain.
ContentAreaSeepage	Content/area/seepage values, using the format: Content, Area, Seepage; Content, Area, Seepage.	If not specified, the original value will remain.
IfNotFound	Used for error handling, one of the following: <ul style="list-style-type: none"> • Add – add the reservoir station if the ID is not matched and is not a wildcard • Fail – generate a failure message if the ID is not matched • Ignore – ignore (don't add and don't generate a message) if the ID is not matched • Warn – generate a warning message if the ID is not matched 	Warn

The following example illustrates how to set multiple accounts for one reservoir (note that more information is set in the first command whereas only account information is set in subsequent commands):

```
# GREEN MOUNTAIN RESERVIOR Characteristics
SetReservoirStation(ID="363543",OnOff=3,OneFillRule=4,DailyID="5",ContentMin=0,
  ContentMax=154645,ReleaseMax=4010,DeadStorage=0,AccountID=1,
  AccountName="Hist_Users",AccountMax=66000,AccountInitial=0,AccountEvap=0,
  AccountOneFill=1,EvapStations="10008,100",IfNotFound=Warn)
SetReservoirStation(ID="363543",AccountID=2,AccountName="CBT_Pool",AccountMax=52000,
  AccountInitial=0,AccountEvap=0,AccountOneFill=1,IfNotFound=Warn)
SetReservoirStation(ID="363543",AccountID=3,AccountName="Contract",AccountMax=20000,
  AccountInitial=0,AccountEvap=0,AccountOneFill=1,IfNotFound=Warn)
SetReservoirStation(ID="363543",AccountID=4,AccountName="Silt_Proj",AccountMax=5000,
  AccountInitial=0,AccountEvap=0,AccountOneFill=1,IfNotFound=Warn)
SetReservoirStation(ID="363543",AccountID=5,AccountName="Inactive",AccountMax=11645,
  AccountInitial=0,AccountEvap=0,AccountOneFill=1,IfNotFound=Warn)
SetReservoirStation(ID="363543",AccountID=6,AccountName="SurplusFish",AccountMax=66000,
  AccountInitial=0,AccountEvap=0,IfNotFound=Warn)
```