



6.0 Model Operation

The State Model is structured to perform one of four (4) interrelated activities:

Base Flows

Simulate

Report

Data Check

For a description of each option, see Section 3.3 of this documentation. The model can be executed using either the StateMod Graphical User Interface available from the CDSS website or via a command line argument. If a command line argument is used, enter the model name and option as follows:

```
statemod [file] [options]
```

where:

file = base file name of the simulation

Options (1) =

-v or -version	Print the program version
-u or -update	Print recent updates
-base or -baseflow	Perform baseflow option
-basex or -baseflowx	Perform baseflow option for ungaged areas only.
	Note: This option assumes gaged flows are natural flows.
-sim or -simulate	Perform simulate option with standard reports
-simx or -simulatex	Perform simulate option without standard reports
-rep or -report [options2]	Perform report option
-chk or -check	Perform data check option

(1) If omitted, the PC version of the model defaults to requesting the desired option from the screen, while the Unix version prints an error message.

Except for the -report option, each of the above requests are straight forward and require only one command line argument. The -report option allows for one or two additional parameters in order to request the desired report and, as appropriate, desired station without requiring data from the screen by the user. Note, except for the standard output request (-std), the argument name is the same as the output file requested. Following are examples of the report option with second and third parameters supplies:

Argument (1)	Result
-report -xnm	Detailed node accounting for all years and Detailed node accounting average
-report -xwb	Water Balance
-report -xwr	Water Right List sorted by basin rank
-report -xdg [-station id]	Direct Diversion, Instream Diversion and Gage graph file
-report -xrg [-station id]	Reservoir graph file
-report -xwg [-station id]	Well graph file
-report -xdc	Diversion comparison file
-report -xrc	Reservoir comparison file
-report -xwc	Well comparison file
-report -xsc	Stream flow gage comparison file
-report -xcu	Diversions by ditch formatted for the CU model
-report -xst	Standard diversion (*.xdd) and reservoir (*.xre) output
-report -xsp	Special parameter report (2).

(1) If omitted, the PC version of the model defaults to request the desired option from the screen, while the Unix version prints an error message.

(2) For the special parameter report the output type (e.g. diversion, reservoir, well, stream gage or All) and parameter (e.g. River Outflow) must be specified in the output request file.