Documentation of SmNewRsp

(StateMod New Response File Program)

Final

Version 1.0, July 17, 2002

The purpose of the program **SmNewRsp** is to read an old (version 1-10) StateMod response file and build a response file in the currently supported format (Version 11 and greater).

This documentation contains the following sections.

0.0 Disclaimer

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1.0 Acknowledgment

This program was developed by Ray Bennett of the Division of Water Resources as part of Colorado's Decision Support System.

2.0 Introduction

The program **SmNewRsp** reads an old (version 1-10) StateMod response file and creates a new one in the currently supported format (version 11 and greater).

3.0 Program Description

SmNewRsp is a pre processing program that allows an outdated (version 1-10) StateMod response file to be read and a new (version 11 and greater) StateMod response file to be constructed. The new format allows files to be provided in any order using a file descriptor. As presented below **SmNewRsp** keys on the suffix recommended and typically used in an existing StateMod response file to build a response file that is consistent with version 11 and greater. If any existing file that does not contain a standard, recommended suffix **SmNewRsp** will warn the user but will not try to determine the file type. In such a case the results of **SmNewRsp** typically require hand editing before they can be successfully used by StateMod.

To execute **SmNewRsp** the user simply types:

> **SmNewRsp** flname.rsp

where flname.rsp is an old (version 1-10) StateMod response. The new random response file is named SmNewRsp.out. Also execution notes and warnings are reported in file named SmNewRsp.log

#	Standard Suffix	File Descriptor	Example Name
1	*.ctl	Control	rgTWD.ctl
2	*.rin	River_Network	rgTW.rin
3	*.res	Reservoir_Station	rgTW.res
4	*.dds	Diversion_Station	rgTW.dds
5	*.ris	StreamGage_Station	rgTW.ris
6	*.ifs	Instreamflow_Station	rgTW.ifs
7	*.wes	Well_Station	rgTW.wes
8	*.ifr	Instreamflow_Right	rgTW.ifr
9	*.rer	Reservoir_Right	rgTW.rer
10	*.ddr	Diversion_Right	rgTW.ddr
11	*.opr	Operational_Right	rgTW.opr
12	*.wer	Well_Right	rgTW.wer
13	*.dum	Precipitation Monthly	rgTW.pre
14	*.eva	Evaporation_Monthly	rgTW.eva
15	*.rim	Stream_Base_Monthly	rgtw.rim
16	*.ddm	Diversion_Demand_Monthly	rgTW.ddm
17	*.dda	Diversion Demand Average Monthly	rgTW.dda
18	*.ddo	Diversion Demand Override	rgTW.ddo
19	*.ifm	Instreamflow_Demand_Monthly	rgTW.ifm
20	*.ifa	Instreamflow_Demand_AverageMonthly	rgTW.ifa
21	*.wem	Well_Demand_Monthly	rgTW.wem

22	*.dly	DelayTable_Monthly	rgTW.dly
23	*.tar	Reservoir_Target_Monthly	rgTW.tar
24	*.tsp	IrrigationPractice_Yearly	rg.tsp
25	*.iwr	ConsumptiveWaterRequirement_Monthly	rg.iwr
26	*.par	SoilMoisture	rg.par
27	*.eom	Reservoir_Historic_Monthly	rgTW.eom
28	*.rib	StreamEstimate_Coefficients	rgTW.rib
29	*.rih	StreamGage_Historic_Monthly	rgTW.rih
30	*.ddh	Diversion_Historic_Monthly	rgTW.ddh
31	*.weh	Well_Historic_Monthly	rgTW.weh
32	*.gvp	GeographicInformation	rgTW_StateMod.gvp
33	*.out	OutputRequest	RgTW.out
34	*.rid	Stream_Base_Daily	rgTWD.rid
35	*.dum	Dummy	rgTWD.dum
36	*.dum	Dummy	rgTWD.dum
37	*.dum	Dummy	rgTWD.dum
38	*.dum	Dummy	rgTWD.dum
39	*.dld	DelayTable_Daily	rgTwD.dld
40	*.iwd	ConsumptiveWaterRequirement_Daily	rgTWD.iwd
41	*.rhy	StreamGage_Historic_Daily	rgTWD.rhy
42	*.dhy	Diversion_Historic_Daily	RgTWD.dhy
43	*.why	Well_Historic_Daily	RgTWD.why
44	*.eoy	Reservoir_Historic_Daily	RgTWD.eoy

4.0 Input File Description

The user has the option of answering questions from the screen or from a single input file named SmNewRsp.rsp.

5.0 Output File Description

SmNewRsp creates a log file and a StateMod new (version 11 and greater) format.

6.0 Comments and Concerns

Following are comments and concerns associated with the preprocessor **SmNewRsp**:

- The old StateMod response file required dummy files be provided if a particular data type is not used. Accordingly, **SmNewRsp** ignores any files with a *.dum suffix.