

Command Reference: CheckRiverNetwork()

Check river network data for problems

StateMod Command

Version 3.09.01, 2010-02-03

The `CheckRiverNetwork()` command checks river network data for problems. The command should usually be used with a `WriteCheckFile()` command at the end of a command file.

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

Edit CheckRiverNetwork() Command

This command checks river network stations (nodes), generating warnings for the follow conditions:

- 1) Missing (undefined) required values.
- 2) Invalid values.
- 3) Downstream river network ID is not found in the network.

River network node identifier: Required - specify the river network nodes to check (use * for wildcard).

If not found: Optional - indicate action if no match is found (default=Warn).

Command:

CheckRiverNetwork

CheckRiverNetwork() Command Editor

The command syntax is as follows:

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

Command Parameters

Parameter	Description	Default
ID	The identifier for the location(s) to check. Use * to match a pattern.	None – must be specified.
IfNotFound	One of the following: <ul style="list-style-type: none">• Fail – generate a failure message if the location identifier is not matched• Ignore – ignore (don't generate a message) if the location identifier is not matched• Warn – generate a warning message if the location identifier is not matched	Warn

The following command file illustrates how a StateMod river network file can be created from the generalized network file:

```
StartLog(LogFile="rin.commands.StateDMI.log")
# rin.commands.StateDMI
#
# creates the river network file for the Colorado River monthly/daily models
#
# Step 1 - read river nodes from the network file and create file framework
#
ReadNetworkFromStateMod(InputFile="cm2005.net")
CreateRiverNetworkFromNetwork()
#
# Step 2 - get node (diversion, stream stations, reservoirs, instream flows)
#           names from HydroBase
#
FillRiverNetworkFromHydroBase(ID="*",NameFormat=StationName_NodeType)
#
# Step 3 - read missing node names from network file
#
FillRiverNetworkFromNetwork(ID="*",NameFormat="StationName_NodeType",
    CommentFormat="StationID")
#
# Step 4 - create StateMod river network file
#
WriteRiverNetworkToStateMod(OutputFile="..\StateMod\cm2005.rin")
#
# Check the results
CheckRiverNetwork(ID="*")
WriteCheckFile(OutputFile="rin.commands.StateDMI.check.html")
```