

# Command Reference: ReadWellStationsFromNetwork()

Read well station data from a network file

StateCU and StateMod Command

Version 3.09.00, 2010-01-25

The `ReadWellStationsFromNetwork()` command reads a list of well stations from a StateMod network file (XML or Makenet) and defines well stations in memory. The well stations can then be manipulated and output with other commands.

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

**Edit ReadWellStationsFromNetwork() Command**

This command reads well station data from a StateMod XML network file.  
Well stations indicate locations where ONLY groundwater supply is used to meet demand, and locations where wells supplement surface water supply for diversion stations.  
Well and D&W (diversion with well[s]) nodes are read from the network file.  
If the network file is not specified, it is assumed that the network has already been read by the network editor or another command.  
If the network file specified, it is read and will be available to later commands.  
The following station data are set from the network:  
Identifier (station ID)  
River node ID - set to station ID  
Daily ID - set to the nearest downstream streamflow station ID.  
See also the Fill\*FromNetwork() commands to fill missing data.  
It is recommended that the path to the file be specified relative to the working directory.  
The working directory is: C:\Develop\StateDMI\_SourceBuild\StateDMI\test\regression\UserManualRef\ReadWellStationsFromNetwork

StateMod network file:

Command: 

```
ReadWellStationsFromNetwork(InputFile="..\Network\Sp2008L.net")
```

ReadWellStationsFromNetwork

## ReadWellStationsFromNetwork() Command Editor

The command syntax is as follows:

```
ReadWellStationsFromNetwork(param=value,...)
```

### Command Parameters

Parameter	Description	Default
InputFile	The name of the network file to read.	None – must be specified.

The following example command file illustrates how well rights can be defined, sorted, checked, and written to a StateMod file:

```
# Well Rights File (*.wer)
#
StartLog(LogFile="Sp2008L_WER.log")
#
# Step 1 - Read all structures
#
ReadWellStationsFromNetwork(InputFile="..\Network\Sp2008L.net")
SortWellStations()
#
# Step 2 - define diversion and d&w aggregates and demand systems
SetWellAggregateFromList(ListFile="..\Sp2008L_SWAgg.csv",PartType=Ditch,IDCol=1,
    NameCol=2,PartIDsCol=3,PartsListedHow=InColumn,IfNotFound=Warn)
SetWellSystemFromList(ListFile="..\Sp2008L_DivSys_DDH.csv",PartType=Ditch,IDCol=1,
    NameCol=2,PartIDsCol=3,PartsListedHow=InRow,IfNotFound=Warn)
#
SetWellAggregateFromList(ListFile="Sp2008L_AugRchWell_Aggregates.csv",PartType=Well,
    IDCol=1,PartIDsCol=2,PartsListedHow=InRow)
#
# Step 3- Set Well aggregates (GW Only lands)
# rrb Same as provided by LRE as Sp_GWAgg_xxxx.csv except non WD 01 and 64 removed
SetWellSystemFromList(ListFile="..\Sp2008L_GWAgg_1956.csv",Year=1956,Div=1,
    PartType=Parcel,IDCol=1,PartIDsCol=2,PartsListedHow=InColumn)
SetWellSystemFromList(ListFile="..\Sp2008L_GWAgg_1976.csv",Year=1976,Div=1,
    PartType=Parcel,IDCol=1,PartIDsCol=2,PartsListedHow=InColumn)
SetWellSystemFromList(ListFile="..\Sp2008L_GWAgg_1987.csv",Year=1987,Div=1,
    PartType=Parcel,IDCol=1,PartIDsCol=2,PartsListedHow=InColumn)
SetWellSystemFromList(ListFile="..\Sp2008L_GWAgg_2001.csv",Year=2001,Div=1,
    PartType=Parcel,IDCol=1,PartIDsCol=2,PartsListedHow=InColumn)
SetWellSystemFromList(ListFile="..\Sp2008L_GWAgg_2005.csv",Year=2005,Div=1,
    PartType=Parcel,IDCol=1,PartIDsCol=2,PartsListedHow=InColumn)
#
# Step 4 - Read Augmentation and Recharge Well Aggregate Parts
SetWellAggregateFromList(ListFile="Sp2008L_AugRchWell_Aggregates.csv",PartType=Well,
    IDCol=1,PartIDsCol=2,PartsListedHow=InRow,PartIDsColMax=25,IfNotFound=Ignore)
SetWellAggregateFromList(ListFile="Sp2008L_AlternatePoint_Aggregates.csv",PartType=Well,
    IDCol=1,PartIDsCol=2,PartsListedHow=InRow,PartIDsColMax=1,IfNotFound=Ignore)
#
# Step 5 - Read rights from HydroBase
ReadWellRightsFromHydroBase(ID="*",IDFormat="HydroBaseID",Year="1956,1976,1987,2001,2005",
    Div="1",DefaultAppropriationDate="1950-01-01",DefineRightHow=RightIfAvailable,
    ReadWellRights=True,UseApex=True,OnOffDefault=AppropriationDate)
#
# Step 6 - Sort and Write
# Write Data Comments="True" provides output used for subsequent cds & ipy acreage filling
# Write Data Comments="False" provides merged file used for seting ipy max pumping
SortWellRights(Order=LocationIDAscending,Order2=IDAscending)
#
WriteWellRightsToStateMod(OutputFile="Sp2008L_NotMerged.wer",WriteDataComments=True)
MergeWellRights(OutputFile="..\StateMod\Historic\Sp2008L.wer")
SortWellRights(Order=LocationIDAscending,Order2=IDAscending)
#
WriteWellRightsToStateMod(OutputFile="Sp2008L.wer",
    WriteDataComments=False,WriteHow=OverwriteFile)
# Check the well rights
CheckWellRights(ID="*")
WriteCheckFile(OutputFile="Sp2008L.wer.check.html",Title="Well Rights Check File")
```