

# Command Reference: ReadPatternFile()

## Read WET/DRY/AVG monthly pattern data file

### StateCU and StateMod Command

Version 3.09.01, 2010-01-27

The `ReadPatternFile()` command reads monthly WET/DRY/AVG patterns from a file. This information is used with `Fill*Pattern()` commands, which are more refined than commands that fill with historical averages.

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

**Edit ReadPatternFile() Command**

A pattern file indicates for every month in a period whether the month was WET, DRY, or AVG. These indicators are used with the `Fill*TSPattern()` commands and allow historical averages to be categorized. The file format is similar to that of StateMod monthly time series files. One or more pattern time series can be provided, usually identified using key location (e.g., gage) identifiers. It is recommended that the location of the file be specified using a path relative to the working directory. The working directory is: C:\Develop\StateDMI\_SourceBuild\StateDMI\test\regression\UserManualRef\FillWellHistoricalPumpingTSMonthlyConstant

Pattern file:

Command:

ReadPatternFile

### ReadPatternFile() Command Editor

The command syntax is as follows:

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

### Command Parameters

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

The pattern file format is very similar to the StateMod monthly time series file format except that instead of monthly numerical values, the strings WET, DRY, or AVG are used to indicate the conditions during the particular month. The pattern file contains pattern time series for one or more key locations, often stream gages with long periods of record. The `AnalyzePattern()` command provided by the TSTool software can be used to create the pattern file.

```
# Monthly Streamflow Characterizations for Estimation of Missing Diversion Data
# *****
#
# Years Shown = Calendar Years
#
# Time series identifier      = 08220000.CRDSS_USGS.QME.MONTH.1
# Description                 = RIO GRANDE AT DEL NORTE
# Located in water div, district = 3, 20
# Located in county, state    =
# Located in HUC              =
# Latitude, longitude         =
#
# Characterizations are based on 25% and 75% cutoffs assuming a normal distribution
#
# 25% (ACFT)      8063      8410      11336      26024      107908      118306      37082      24135      15410      15075      10404      8946
# 75% (ACFT)      11564      11594      17564      49094      179836      241828      123255      63532      31008      29759      18286      12808
#
# Yr-----JAN      FEB      MAR      APR      MAY      JUN      JUL      AUG      SEPT      OCT      NOV      DEC
# -e-b-----eb-----eb-----eb-----eb-----eb-----eb-----eb-----eb-----e
# File generated by:
#
# Program:      Excel Spreatsheet
# User:         E. Armbruster
# File:         g:\projects\297\task6\rgmodel\ts_files\fill.pat
# Date:         October 26, 1999
#
#
# Yr-----JAN      FEB      MAR      APR      MAY      JUN      JUL      AUG      SEPT      OCT      NOV      DEC
# -e-b-----eb-----eb-----eb-----eb-----eb-----eb-----eb-----eb-----e
# 01/1950 -      12/1997 ACFT      CYR
1950 08220000      WET      WET      DRY      DRY      WET      AVG      AVG      AVG      DRY      DRY      DRY      DRY
1951 08220000      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY      AVG
1952 08220000      AVG      AVG      DRY      DRY      WET      WET      WET      WET      AVG      AVG      AVG      AVG
1953 08220000      AVG      AVG      AVG      AVG      DRY      AVG      AVG      DRY      DRY      DRY      AVG      AVG
1954 08220000      AVG      WET      DRY      AVG      AVG      DRY      AVG      AVG      AVG      AVG      AVG      DRY
1955 08220000      AVG      AVG      DRY      DRY      DRY      AVG      DRY      AVG      DRY      DRY      DRY      DRY
1956 08220000      AVG      AVG      AVG      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY
1957 08220000      DRY      DRY      DRY      AVG      DRY      WET      WET      WET      WET      WET      WET      WET
1958 08220000      AVG      WET      AVG      AVG      WET      AVG      AVG      AVG      AVG      AVG      AVG      AVG
1959 08220000      DRY      DRY      DRY      DRY      DRY      DRY      DRY      AVG      DRY      DRY      WET      AVG
1960 08220000      AVG      AVG      WET      WET      AVG      AVG      AVG      DRY      DRY      DRY      DRY      AVG
1961 08220000      DRY      AVG      AVG      AVG      AVG      AVG      DRY      AVG      AVG      AVG      AVG      WET
1962 08220000      WET      WET      AVG      WET      WET      AVG      AVG      AVG      AVG      AVG      AVG      AVG
1963 08220000      AVG      AVG      AVG      AVG      AVG      DRY      DRY      DRY      DRY      DRY      DRY      DRY
1964 08220000      DRY      DRY      DRY      DRY      AVG      DRY      DRY      DRY      AVG      DRY      DRY      DRY
1965 08220000      DRY      DRY      DRY      WET      WET      WET      WET      WET      WET      WET      WET      WET
1966 08220000      WET      AVG      WET      AVG      AVG      AVG      AVG      AVG      AVG      AVG      AVG      AVG
1967 08220000      DRY      DRY      AVG      DRY      DRY      DRY      AVG      AVG      AVG      DRY      DRY      AVG
1968 08220000      AVG      AVG      AVG      DRY      AVG      AVG      WET      WET      WET      WET      WET      WET
1969 08220000      AVG      AVG      AVG      AVG      AVG      AVG      WET      WET      WET      WET      WET      WET
1970 08220000      AVG      AVG      DRY      WET      WET      AVG      WET      WET      WET      WET      WET      WET
1971 08220000      WET      WET      WET      AVG      DRY      AVG      DRY      DRY      DRY      DRY      WET      WET
1972 08220000      AVG      AVG      WET      WET      WET      DRY      DRY      DRY      DRY      DRY      WET      WET
1973 08220000      AVG      AVG      AVG      WET      WET      WET      WET      WET      WET      WET      WET      WET
1974 08220000      AVG      AVG      AVG      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY
1975 08220000      DRY      DRY      DRY      DRY      WET      WET      WET      WET      WET      WET      WET      WET
1976 08220000      AVG      AVG      AVG      AVG      AVG      AVG      WET      WET      WET      WET      WET      WET
1977 08220000      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY      DRY
1978 08220000      DRY      DRY      DRY      DRY      DRY      WET      WET      WET      WET      WET      WET      WET
1979 08220000      DRY      DRY      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1980 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1981 08220000      AVG      AVG      DRY      WET      DRY      DRY      DRY      WET      WET      WET      WET      WET
1982 08220000      AVG      AVG      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1983 08220000      WET      AVG      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1984 08220000      AVG      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1985 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1986 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1987 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1988 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1989 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1990 08220000      DRY      DRY      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1991 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1992 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1993 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1994 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1995 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1996 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
1997 08220000      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET      WET
```