Table of Contents

Version 02.01.00, 2007-03-02, Color, Acrobat Distille

1 Acknowledgements

2 Introduction

- 2.1 How to Use this Documentation
- 2.2 CDSS Modeling Overview
- 2.3 Data Set Directory and File Conventions
- 2.4 Standard Procedures for Creating StateCU and StateMod Data Sets
- 2.5 Variations in StateMod Data Sets
 - 2.5.1 Creating a Historical Data Set
 - 2.5.2 Creating a Calculated Data Set
 - 2.5.3 Creating a Baseline Data Set
 - 2.5.4 Creating a Data Set with Aggregated Structures
 - 2.5.5 Creating a StateMod Data Set with Daily Data
 - 2.5.6 Creating a StateMod Data Set with Wells
- 2.6 Commands and Processing Sequence

3 Getting Started

- 3.1 Starting StateDMI
- 3.2 Select HydroBase Dialog
- 3.3 Main Interface
- 3.4 File Menu Main Input and Output Control
- 3.5 Edit Menu Editing Commands
- 3.6 View Menu Enable/Disable Display Features
 - 3.6.1 Updating an Old Makenet Network to New Format
 - 3.6.2 Manually Creating a New StateMod Generalized Network
 - 3.6.3 Automatically Creating a New StateMod Generalized Network
 - 3.6.4 Creating a New StateMod Generalized Network from an Existing StateMod River Network File
 - 3.6.5 StateMod Model Network Editor
 - 3.6.5.1 Adding/Deleting/Changing a Node
 - 3.6.5.2 Adding/Deleting/Changing Annotations
 - 3.6.5.3 Adding/Deleting Links
 - 3.6.5.4 Printing the Network
 - 3.6.5.5 Saving the Network as an Image
- 3.7 Commands Menu Insert Commands for Processing Data Set Files
- 3.8 Run Menu Running Commands
- 3.9 Results Menu View Data Set and Command Results
- 3.10 Tools Menu
- 3.11 Help Menu

4 Creating StateCU Data Set Files

- 4.1 Control Data
- 4.2 Climate Station Data
 - 4.2.1 Climate Stations
 - 4.2.2 Temperature Time Series (Monthly)
 - 4.2.3 Frost Dates Time Series (Yearly)

- 4.2.4 Precipitation Time Series (Monthly)
- 4.3 Crop Characteristics/Coefficients Data
 - 4.3.1 Crop Characteristics
 - 4.3.2 Blaney-Criddle Crop Coefficients
- 4.4 Delay Tables Data
 - 4.4.1 Delay Tables
- 4.5 CU Locations Data
 - 4.5.1 CU Locations
 - 4.5.2 Crop Pattern Time Series (Yearly)
 - 4.5.3 Irrigation Practice Time Series (Yearly)
 - 4.5.4 Diversion Time Series
 - 4.5.5 Well Pumping Time Series
 - 4.5.6 Diversion Water Rights
 - 4.5.7 Delay Table Assignment

5 Creating StateMod Data Set Files

- 5.1 Control Data
 - 5.1.1 Response File
 - 5.1.2 Control File
 - 5.1.3 Output Control File
- 5.2 Stream Gage Data
 - 5.2.1 Stream Gage Stations
 - 5.2.2 Stream Historical Time Series (Monthly, Daily)
 - 5.2.3 Stream Base Time Series (Monthly, Daily)
- 5.3 Delay Table Data
 - 5.3.1 Delay Tables (Monthly)
 - 5.3.2 Delay Tables (Daily)
- 5.4 Diversion Data
 - 5.4.1 Diversion Stations
 - 5.4.2 Diversion Rights
 - 5.4.3 Diversion Historical Time Series (Monthly)
 - 5.4.4 Diversion Historical Time Series (Daily)
 - 5.4.5 Diversion Demand Time Series (Monthly)
 - 5.4.6 Diversion Demand Time Series Override (Monthly)
 - 5.4.7 Diversion Demand Time Series (Average Monthly)
 - 5.4.8 Diversion Demand Time Series (Daily)
 - 5.4.9 Irrigation Practice Time Series (Yearly)
 - 5.4.10 Consumptive Water Requirement (Monthly, Daily)
 - 5.4.11 Soil Moisture
- 5.5 Precipitation Data
 - 5.5.1 Precipitation Time Series (Monthly)
- 5.6 Evaporation Data
 - 5.6.1 Evaporation Time Series (Monthly)
- 5.7 Reservoir Data
 - 5.7.1 Reservoir Stations
 - 5.7.2 Reservoir Rights
 - 5.7.3 Reservoir Content, Target Time Series (Monthly, Daily)
- 5.8 Instream Flow Data
 - 5.8.1 Instream Flow Stations
 - 5.8.2 Instream Flow Rights
 - 5.8.3 Instream Flow Demand Time Series (Average Monthly)

- 5.8.4 Instream Flow Demand Time Series (Monthly, Daily)
- 5.9 Well Data
 - 5.9.1 Well Stations
 - 5.9.2 Well Rights
 - 5.9.3 Well Historical Pumping Time Series (Monthly, Daily)
 - 5.9.4 Well Demand Time Series (Monthly, Daily)
- 5.10 Stream Estimate Data
 - 5.10.1 Stream Estimate Stations
 - 5.10.2 Stream Estimate Coefficients
 - 5.10.3 Stream Estimate Base Time Series (Monthly, Daily)
- 5.11 River Network Data
 - 5.11.1 Network (used by StateDMI, StateMod GUI)
 - 5.11.2 River Network (used by StateMod)
- 5.12 Operational Data
- 5.13 San Juan Sediment Recovery Plan Data
- 5.14 Spatial Data

6 Troubleshooting

Command Glossary

Command Reference (alphabetical, by command name)

Appendix – StateDMI Installation and Configuration

Appendix - Release Notes

This page is intentionally blank.