



RiverWare Interactive Scenario Explorer (RiverWISE) - Stakeholder Guide

Version 7.3



Center for Advanced Decision Support for
Water and Environmental Systems (CADSWES)

UNIVERSITY OF COLORADO **BOULDER**

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RiverWISE Stakeholder Guide

Table of Contents

Install and Run RiverWISE	1
Open a WISE File	1
View the RiverWare Model Schematic	3
Manage the Scenario List	4
Edit and Run Scenarios	6
Select Data Set to Modify	7
Modify a Data Set	7
Modify Series Data	8
Modify Table Data.....	9
Modify a Scalar.....	10
Edit Operations and Copy to/from Excel	10
Execute a Scenario	11
View Results	12
Log Diagnostic Messages	13
Save WISE File and Export Scenarios	14
Plot controls	15
Menu Operations	15
The File Menu	15
The Help Menu	16

RiverWISE Stakeholder Guide

RiverWISE (**R**iver**W**are **I**nteractive **S**cenario **E**xplorer) is a stand-alone application for viewing and exploring alternatives of certain specially configured models generated in the RiverWare software. RiverWISE is freely available and easy to use – it does not require the RiverWare software or training.

RiverWare **model developers** build a river system model, develop a baseline scenario, and select important input variables that could reasonably be modified in exploring alternative scenarios. They select key output variables of interest for comparing alternatives. Using a utility in RiverWare, they create and export a special file, a WISE file (*.wise) that can be opened in RiverWISE.

Stakeholders, i.e., anyone interested in seeing results of the RiverWare model and exploring alternative scenarios, use RiverWISE to open the *.wise file, view results, change values of the designated input variables, execute the simulation and compare resulting output values. They may create several scenarios, save them and send them to others.

1. Install and Run RiverWISE

If you already have an active RiverWare license, RiverWISE is included; a separate RiverWISE license is not needed. To execute RiverWISE, use the Windows Start menu to navigate to **All Programs ➤ CADSWES ➤ RiverWISE X.X.X**

If you do not have an active RiverWare license:

1. Download and install RiverWISE following instructions on the RiverWare.org website. You will need to install the same version that was used to generate the WISE file, so you will need to know the version number.
2. Obtain and install a RiverWISE license from CADSWES. See instructions at RiverWare.org.
3. Execute RiverWISE by clicking on the desktop icon.



4. An empty RiverWISE window should open.

2. Open a WISE File

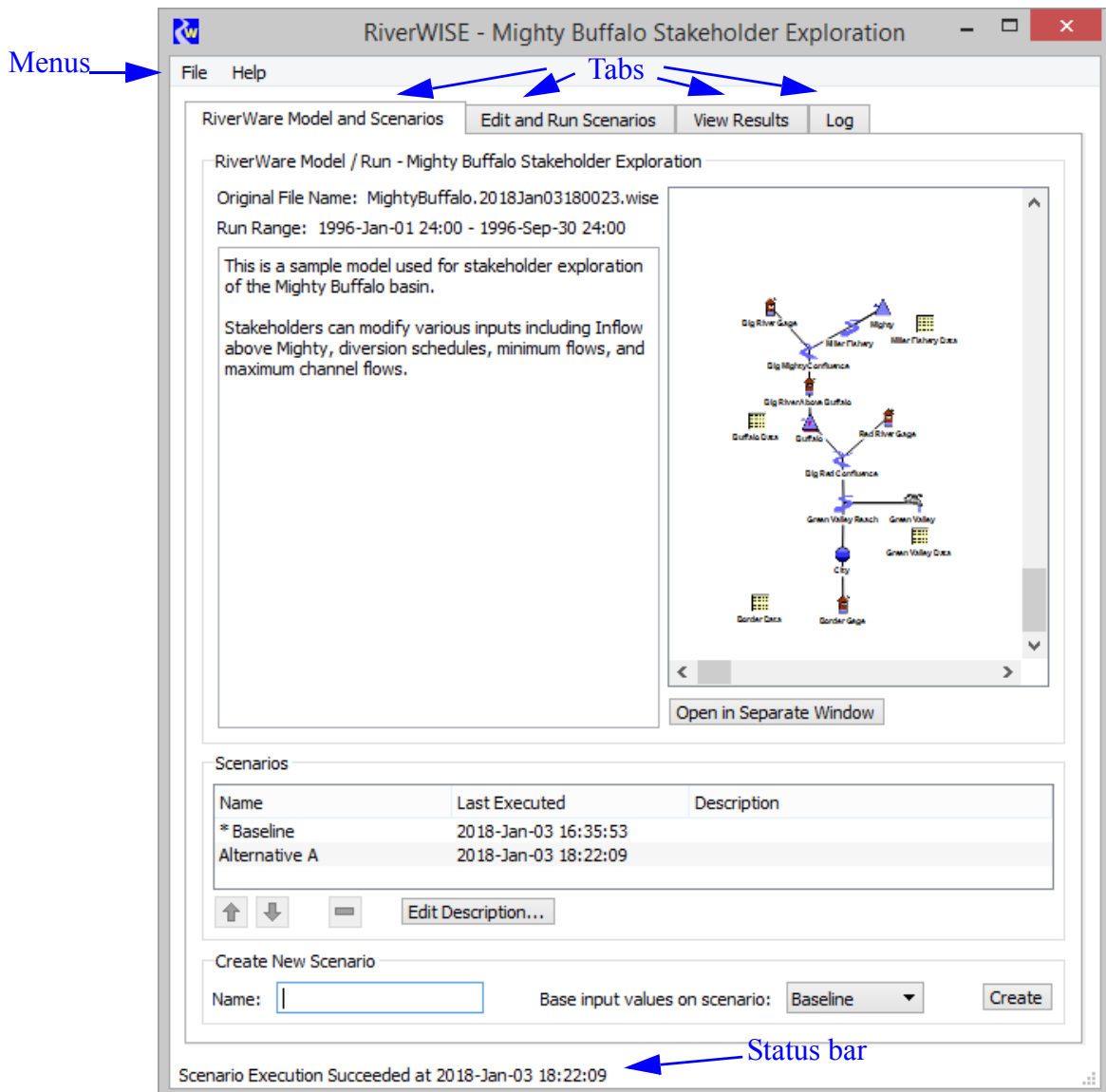
Obtain a WISE (*.wise) file from a RiverWare model developer or other RiverWISE user.

Open a WISE File

Open a WISE file using the menu **File ➤ Open WISE File**. Navigate to the location of the *.wise file that you wish to open, then click the “Open” button.

If large, WISE files might take several minutes to load. A status message at the bottom left of the dialog will note the time the loading began, e.g., “Open WISE File Started at 11-08-2017 10:23:18”. While loading, the cursor will be displayed as an animated circle; when loading is complete, the status message will be updated to reflect the new status.

After opening a WISE file, the RiverWISE window should look something like this figure with menus at the top and tabs for various displays and functions. The WISE file opens to the **RiverWare Model and Scenarios** tab that shows a textual description of the model/run (if one is provided by the model developer), a schematic of the river system and scenario information. The original *.wise file name (when exported from RiverWare) and the simulation time period are shown.



Note: The file name consists of a root, the date when the wise file was exported by the developer, a tag if saved from RiverWISE, and the .wise extension. The convention is FileNameRoot.ExportDate.wise. For example: MightyBuffalo.2018JAN03180023.wise. The *.wise file you opened might also have a tag before the *.wise. The tag is not present in the original file name, as created by RiverWare. The file name and export date persist in the file name through subsequent saves of the wise file and when exporting scenarios. This allows you to associate your saved WISE files and scenario files with the original WISE file. For more information on saving and exporting, see [HERE \(Save WISE File and Export Scenarios\)](#).













3. View the RiverWare Model Schematic












The model schematic shows the model components (objects and links) that form the network of the RiverWare hydrologic model. The various Object types are listed in the table below. Links represent data connections between data on the Objects. An image, e.g., map, may be displayed with the schematic.

Navigate the model schematic using the following:

- Zoom in or out: right-click within the display panel and select the desired zoom level.
- Pan: Use the middle mouse button and Scroll bars to pan through the schematic.
- View links: hover over the lines on the workspace to see tooltips describing the links.
- Click “Open in Separate Window” button to show the schematic in a separate display. This allows it to be visible even when another RiverWISE tab is selected.

RiverWare's Object Types

	Storage Reservoir Reservoir with Release and spillways; no hydropower. Pool Elevation is a function of Storage.		Level Power Reservoir Reservoir with hydropower (turbine release) and spillways; Pool Elevation is a function of Storage.
	Slope Power Reservoir Reservoir with hydropower and spillways. Storage is level storage plus wedge storage.		Pumped Storage Reservoir Reservoir with reversible pump-turbines that may generate or pump at each timestep.
	Reach Models routing in a river section; acts as node for diversions and return flows; models gains, losses.		Groundwater Models head based flow and storage of water in ground, groundwater-surface water interaction.
	Aggregate Reach Aggregation of multiple Reach objects.		Stream Gage Represents a gauge location in a river system; no simulated process.
	Confluence A flow junction with two Inflows and a single Out-flow.		Pipeline Models pipe flow (pressurized).
	Bifurcation A flow junction with two Outflows and a single Inflow.		Pipe Junction Models a junction in pressurized flow system .

	Water User Diverts water from a Reach or Reservoir, models consumptive use and return flows.		Inline Pump Models a booster pump station; calculates added head and power consumed.
	Aggregate Diversion Site Contains Water Users; diverts from Reach or Reservoir; models consumptive user and return flow.		Inline Powerplant Models power generation in reach with no storage, also called run-of-river power plant.
	Diversion Diverts water from a Reservoir or Reach.		Power Plant Diversion Models the diversion and consumption of water by a Power Plant, often for cooling.
	Canal Models bi-directional conveyance channel by gravity flow between two reservoirs.		Thermal Models economics of thermal power system and thermal replacement value of hydropower.
	Aggregate Distribution Canal Routes flows through multiple canal reaches from Diversion to Water users, and routes demands		Data Object Container for user-configured data and custom slots e.g. expressions for user-defined calculations.
	Control Point Point of regulation e.g. for channel capacity for floods or instream flow regulation.		

4. Manage the Scenario List

A **scenario** in RiverWISE consists of a set of input values along with the results computed by a RiverWare simulation. When a *.wise file is exported from RiverWare, it contains a single scenario, the **baseline scenario**, representing the input/results for the original simulation, as conducted by the model developer. RiverWISE users (stakeholders) may create new scenarios, receive scenarios from other stakeholders, and export their scenarios to others.

The Scenarios panel in the lower portion of the “RiverWare Model and Scenarios” tab displays the list of scenarios currently in this WISE file and has controls to re-order the scenarios in the list, delete and create new scenarios.

The list has 3 columns:

- **Name:** short text identifying the scenario; the name is assigned when the scenario is created or imported. Each name must be unique in the list
- **Last executed:** the completion date/time for the last execution of the scenario. This is empty if the scenario has not been executed.

- **Description:** an optional and editable textual description of the scenario.

Scenarios

Name	Last Executed	Description
* Baseline	07:03 Nov 26 2017	
Decreased Flows	20:32 Nov 26 2017	Decrease Flows by 20%
Alternative A	19:04 Nov 26 2017	Increases Min Flows and Decrease De...

To edit a description, select the scenario in the list, then click the **Edit Description** button. Edit the text in the description field.

Note: [Tip] Useful information to add to the comment includes the name of the scenario that this scenario is based on, user who created the scenario, changes made to input data, and comments on the results.

The baseline scenario, indicated by an asterisk is defined by the model developer and cannot be edited.

Create a new scenario: enter a name into the **Name** field of the **Create New Scenario** box, then select one of the currently listed scenarios on which to base the input values of the new scenario. When the new scenario is created, its input values will be identical to those of this scenario. Click the **Create** button to have the new scenario appear in the list.

Create New Scenario

Name: Base input values on scenario:

To modify the inputs of your new scenario and execute a simulation to compute results, select the **Edit and Run Scenarios** tab.

Import Scenarios: One or more scenarios based on the same RiverWare model and baseline scenario, created in RiverWISE and exported to a *.sce file can be imported into the list. From the **File** menu, select Import Scenarios. You are first prompted for the path of the *.sce file to be imported, and then the import occurs. The new scenarios are appended to the list. Imported scenarios are renamed as necessary to ensure that all scenario names are unique within the currently open WISE file list.

5. Edit and Run Scenarios

To edit input data and run the scenarios, click on the **Edit and Run Scenarios** tab. Here you can activate a scenario, view and change the input data, compare the inputs with the inputs of other scenarios, and execute a simulation of the scenario to compute the results for the modified inputs.

Active Scenario → Scenario: Decreased Flows

Selected Data Set →

Location	Name	Modification From Baseline	Data Type	Minimum	Maximum
Miller Fishery Data	Min Fish Flow	Edited	Scalar	0.00 cms	200.00 cms
Mighty	Inflow	Edited	Series	0.00 cms	3,500.00 cms
Green Valley Data	Diversion Schedule	None	Table	N/A	N/A
City	Max Channel Flow	Edited	Scalar	1,200.00 cms	1,500.00 cms
Border Data	ICD Requirement	Edited	Scalar	350.00 cms	700.00 cms

Plots → Edit Mighty - Inflow

Tables →

	Total cms	Total cms
12-31-1995 Sun	NaN	NaN
01-01-1996 Mon	28.24	28.24
01-02-1996 Tue	23.97	23.97
01-03-1996 Wed	22.32	22.32

Run controls → Run Scenario (Decreased Flows)

Scenario Controls → Scenarios to Show

- ☒ Baseline
- ☒ Decreased Flows
- ☐ Alternative A

View Controls → Show Data Sets As

- ☒ Plots
- ☒ Tables

Status: No Run Has Been Initiated

Open WISE File Succeeded at 2018-Jan-03 18:39:54

First select the active scenario, i.e. the non-baseline scenario you wish to edit and simulate, by clicking on the menu button labeled “Scenario” and select the desired scenario from the drop-down list. (You can create new scenarios on the Scenarios panel on the lower portion of the “RiverWare Model and Scenarios” tab.)

5.1 Select Data Set to Modify

The Input Data Sets panel lists the active scenario's input data that can be modified from the baseline run. The columns of the list provide the following information for each data set:

Location	Name	Modification From Baseline	Data Type	Minimum	Maximum
Miller Fishery Data	Min Fish Flow	Edited	Scalar	0.00 cms	200.00 cms
Mighty	Inflow	Edited	Series	0.00 cms	3,500.00 cms
Green Valley Data	Diversion Schedule	None	Table	N/A	N/A
City	Max Channel Flow	Edited	Scalar	1,200.00 cms	1,500.00 cms
Border Data	ICD Requirement	Edited	Scalar	350.00 cms	700.00 cms

- **Location:** The basin location of the data.
- **Name:** The name of the modeled quantity; it can be physical data (e.g., “Inflow”) or water accounting data (e.g., “Storage in the M&N Account”).
- **Modification from Baseline:** Whether or not the data in the data set for the selected scenario differs from the data in the baseline: “None” indicates that no modification from the baseline values has been made; “Edited” indicates that one or more values have been changed.
- **Data Type:** the form of the numeric data associated with the data set. There are the following possibilities:
 - Series – a time series of values;
 - Table – a matrix of values;
 - Scalar – a single value.
- **Minimum and Maximum:** the minimum and maximum values permitted for the data set. These are optionally established by the developer for Scalar and Series data.

Note that all of the scenarios contain the same list of Input Data Sets. Values within those data sets may vary between scenarios. These variable are a subset of the models input, selected by the developer, and common to all scenarios for a given WISE file.

5.2 Modify a Data Set

To change the values for an input data set, select that data set in the Input Data Sets list. Then, controls for modifying value(s) are displayed below the Input Data Sets list. These controls vary according to the data type: Series, Scalar or Tables.

The edit panel displays values for all displayed scenarios to allow comparison of input values, but only the values for the currently active scenario can be changed. On the “Scenarios to Show” panel to the right of the data display, select which scenarios’ data to display and the display color associated with each.

5.2.1 Modify Series Data

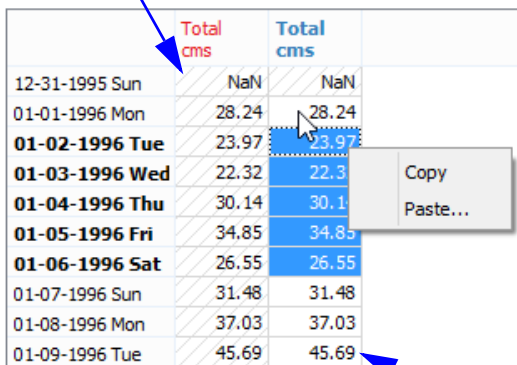
When a series data set is selected in the Input Data Sets list, the edit controls consist of a plot and a table of values. The plot shows the data associated with the data set, with each scenario's data plotted using its color.

Either the plot or the table can be hidden by deselecting the appropriate check box to the lower right of the panel.

The table of values has one row for each date in the series, listed on the left, and one column for each scenario. The columns have a label (may be created by model developer) and the units of the values. (The color of the label corresponds to the color of the scenario associated with that column).

Only values for the active scenario can be edited, and of those, only those that were provided as inputs to the original RiverWare model run can be edited. That is, if the series value for a particular date was computed by RiverWare and not originally input by the model developer, then it is not editable. Non-editable values show cross-hatching and cannot be changed.

Read-only crosshatching



	Total cms	Total cms	
12-31-1995 Sun	NaN	NaN	
01-01-1996 Mon	28.24	28.24	
01-02-1996 Tue	23.97	23.97	
01-03-1996 Wed	22.32	22.3	
01-04-1996 Thu	30.14	30.1	
01-05-1996 Fri	34.85	34.85	
01-06-1996 Sat	26.55	26.55	
01-07-1996 Sun	31.48	31.48	
01-08-1996 Mon	37.03	37.03	
01-09-1996 Tue	45.69	45.69	

Editable Data

To enter a value into one or more cells of the table, first select the cells you would like to change, type in the number, and then hit return.

To learn how to enter values into multiple cells and to copy/paste from/to other applications such as Excel, see [HERE \(Section 5.3\)](#).

For more information on plotting, see [HERE \(Section 9\)](#).

5.2.2 Modify Table Data

When a table data set is selected, the edit panel displays a table of values. The rows are indexed and may also have a text label. The color-coded columns, one for each scenario, show units and possibly a title. Only values in columns associated with the active scenario can be edited. .

Input Data Sets			
Location	Name	Modification	Data Type
Miller Fishery Data	Min Fish Flow	None	Scalar
Mighty	Inflow	Edited	Series
Green Valley Data	Diversion Schedule	None	Table
City	Max Channel Flow	None	Scalar
Border Data	ICD Requirement	None	Scalar

Edit Green Valley Data - Diversion Schedule		
Green Valley Data - Diversion Schedule (cms)		
Plot not available for tabular data with 1 columns.		
	cms	cms
0	0.00	0.00
1	0.00	0.00
2	0.00	0.00
3	225.69	225.69
4	462.96	462.96
5	462.96	462.96
6	925.93	925.93
7	925.93	925.93
8	225.69	225.69
9	0.00	0.00
10	0.00	0.00
11	0.00	0.00

Note: Two-column tables also show a plot, when possible. Other tables only show only data.

To learn how to change values in multiple cells and to copy/paste from/to other applications such as Excel, see [HERE \(Section 5.3\)](#).

5.2.3 Modify a Scalar

When a scalar data set is selected, the edit panel displays an editable value and possibly a slider.

Location	Name	Modification	Data Type
Miller Fishery Data	Min Fish Flow	Edited	Scalar
Mighty	Inflow	None	Series
Green Valley Data	Diversion Schedule	None	Table
City	Max Channel Flow	None	Scalar
Border Data	ICD Requirement	None	Scalar

Edit Border Data - ICD Requirement

Value: cms

Minimum: 350 cms Maximum: 700 cms

To change the value either enter a new value into the Value box or drag the slider to the desired value. The Minimum and Maximum values configured by the Model Developer are also shown. They define the limits of the slider.

5.3 Edit Operations and Copy to/from Excel

Values that are read-only are displayed with a light gray crosshatching. Note that only one tab supports editing of values, the “**Edit and Run Scenarios**” tab.

To enter a value into one or more cells of the table, first select the cells you would like to change, type in the number, and then hit return.

You can also select one or more cells and copy and paste from or to another application (e.g. Excel). A common work flow involving Excel is:

- Highlight a range of cells.
- Right click and choose **Copy**
- Go to Excel and paste the data into a range of cells.
- Edit the data in Excel using formulas and other techniques.
- Copy the desired cells in Excel.
- In the RiverWISE “**Edit and Run Scenarios**” tab, highlight a range of cells and right click.
- Choose **Paste** to bring in the data.

Copy data to Excel or other application. To display or analyze simulation results in Excel or other tools, copy data from RiverWISE and paste it into another application.

Within the RiverWISE “**Edit and Run Scenarios**” or “**View Results**” tab:

Read-only crosshatching

	Total cms	Total cms
12-31-1995 Sun	NaN	NaN
01-01-1996 Mon	28.24	28.24
01-02-1996 Tue	23.97	23.97
01-03-1996 Wed	22.32	22.3
01-04-1996 Thu	30.14	30.1
01-05-1996 Fri	34.85	34.85
01-06-1996 Sat	26.55	26.55
01-07-1996 Sun	31.48	31.48
01-08-1996 Mon	37.03	37.03
01-09-1996 Tue	45.69	45.69

Copy
Paste...

Editable Data


- Highlight a range of cells or entire columns of data.
- Right click and choose **Copy**
- Go to Excel or another application and paste the data into a range of cells.

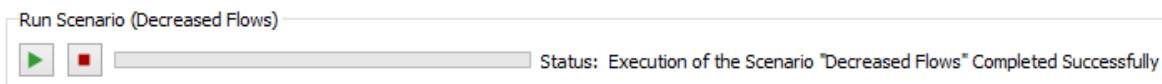
Paste data from Excel or other application. To import data from other tools, copy the data and paste it into the **Edit and Run Scenario** tab in RiverWISE.

- For example, in Excel, highlight a range of cells, i.e. a column of data.
- Right click and choose **Copy**
- Within the RiverWISE “**Edit and Run Scenarios**” tab, highlight the desired cells. Only the currently selected scenario is editable and will not have cross-hatching.
- Right click and choose paste.


5.4 Execute a Scenario

After modifying input values, execute the scenario to generate the new results. Click on the run button

 at the bottom of the panel. The bar to the right indicates the progress of the simulation, and the Status label reports on the state of the simulation.



Note: Scenario execution can vary from seconds to hours, depending on many factors including the size of the basin, the number of time steps in the simulation, and the machine on which RiverWISE is running.

To stop a simulation click on the Stop button . The simulation will be halted when it reaches a point that is the next valid stopping state.

If a scenario execution aborts, you can try changing the input data. Otherwise, contact the model developer with the data that resulted in the aborted run. RiverWISE is not intended for debugging errors or fixing modeling issues, only for conducting runs and showing comparison results. The model developer can analyze the issue and advise a solution, either modified data or generation of an entirely new WISE file.

As a Stakeholder, you can communicate the issue to the Model Developer by one or more of the following:

- Export the Log messages or entire text information as described [HERE \(Section 7\)](#).
- Export the scenario that you created, using the **File ➤ Export Scenarios**, as described [HERE \(Section 10.1\)](#).
- Save the entire WISE file, using the **File ➤ Save WISE File As**, as described [HERE \(Section 10.1\)](#).

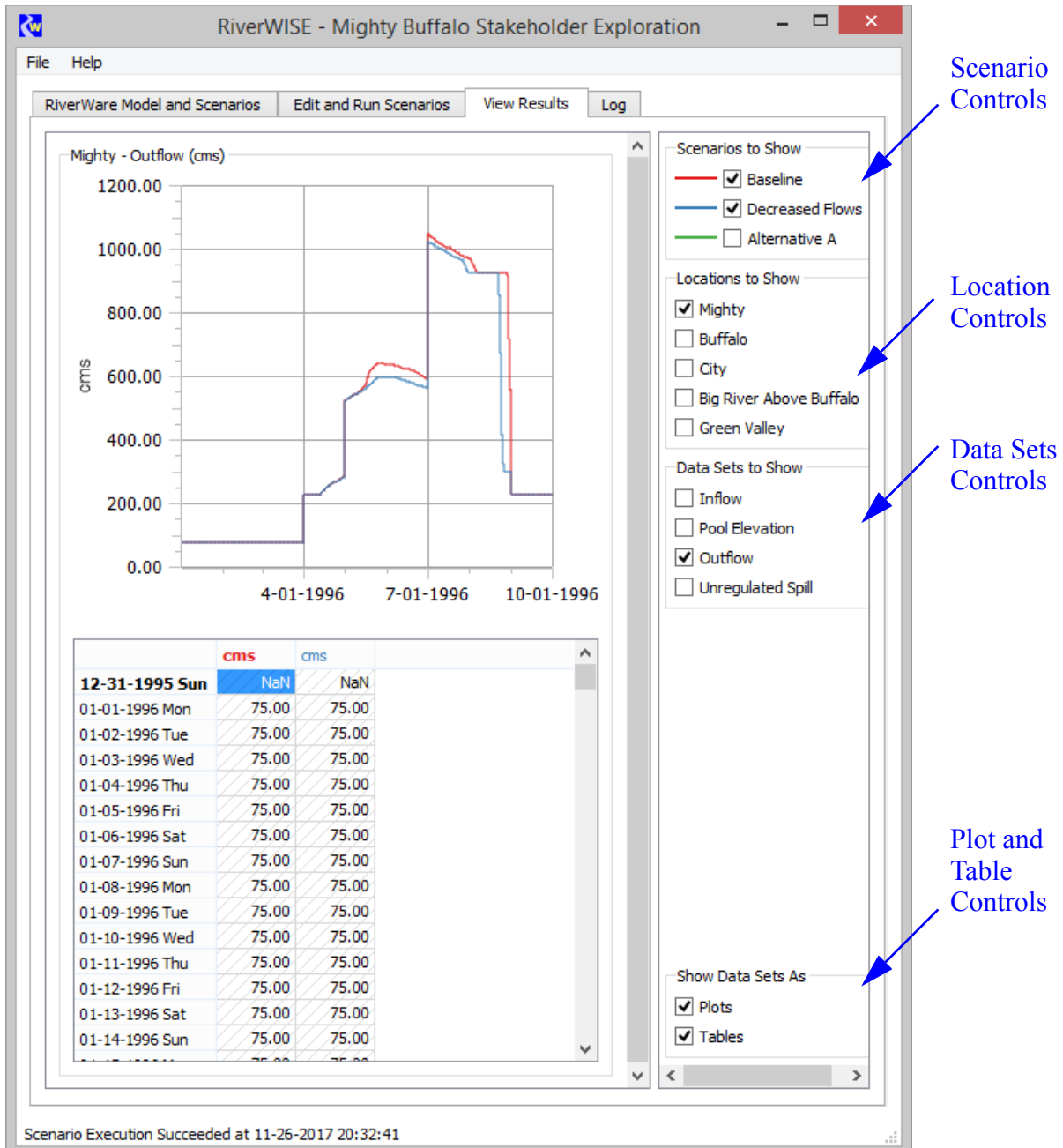
You can then provide this file to the Model Developer for further debugging.

View Results
Execute a Scenario

Model Developers can also export a RiverWare model file that represents the current state of the system.

6. View Results

The “**View Results**” tab presents the result data sets for selected scenarios in current list.



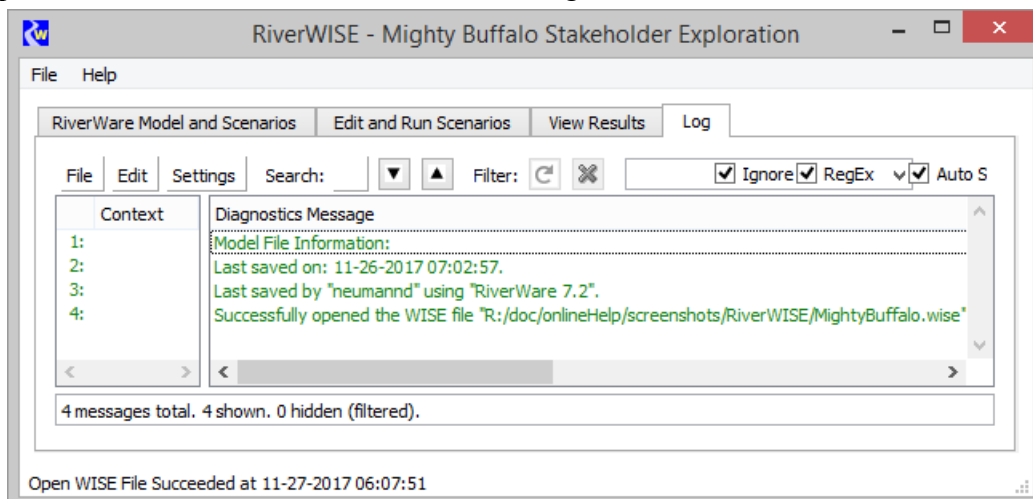
Check boxes to the right of the display area to provide display filters based on several attributes:

- **Scenarios to Show:** use the check boxes to show data for the desired scenarios. These controls also provide a color legend for plots and tables (column headers)
- **Locations to Show:** use the check boxes to choose the desired basin locations.
- **Data Sets to Show:** use the check boxes to choose which data sets will be shown. Only data sets associated with currently shown locations are shown.

By default the series results data are shown as plots and tables; either the plot or the table displays can be hidden by de-selecting the appropriate check box to the lower right of the panel. For more information on plotting, see [HERE \(Section 9\)](#).

7. Log Diagnostic Messages

The Log tab displays diagnostic messages generated by RiverWare. These messages are intended for trained RiverWare model developers, hence are generally not of direct interest to RiverWISE users. They often use different terminology from that employed by RiverWISE, and reference internal simulation processes with which a RiverWISE user might not be familiar.



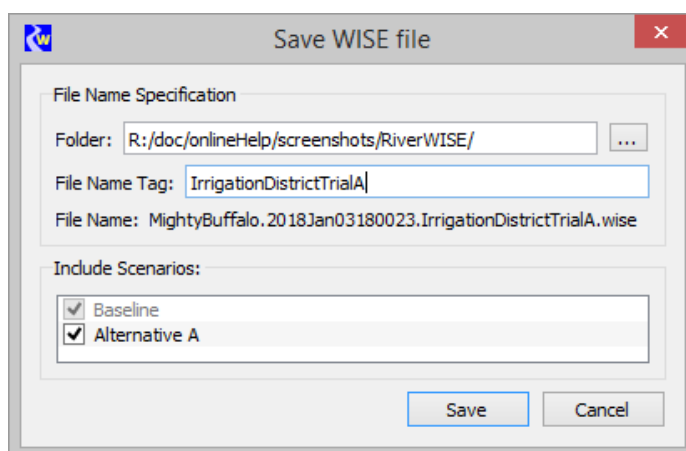
Following are some useful menu items you may wish to use if you have a problem and would like to send the diagnostics to the Model Developer.

- **File ➔ Save Diagnostic Messages to File:** Save all diagnostics in the window to a text file which you could send to the model developer.
- **Edit ➔ Copy Message Line:** copy a single line to the clipboard. You can then paste this in an email.
- **Edit ➔ Copy Visible Message Lines:** copy visible lines to the clipboard.
- **Edit ➔ Copy All Message Lines:** copy all the diagnostics to the clipboard.
- **Edit ➔ Clear Messages:** clear the diagnostics from the dialog.

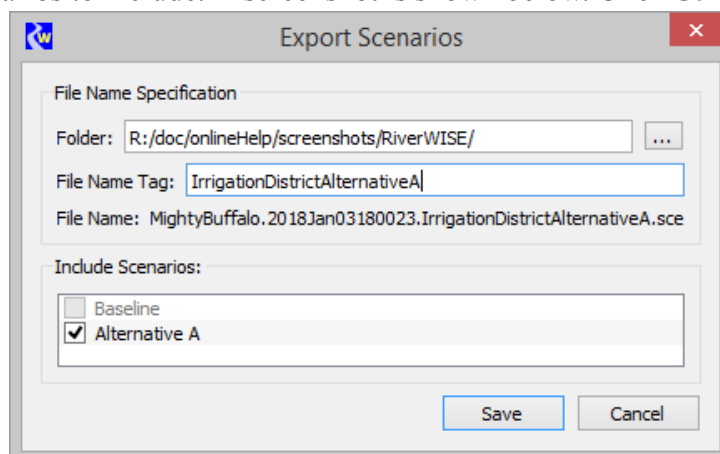
8. Save WISE File and Export Scenarios

Save the results of selected scenarios to a file in order to access those results later or to share them with others. Saved scenarios include changes to the input data sets as well as the results of executing that scenario. Once you have decided which scenarios you would like to save, you can choose a File operation that either bundles them together with the RiverWare model to which they apply or saves them completely separately:

Save the WISE File: creates a new *.wise file with the RiverWare model and baseline scenario and additional scenarios you choose to add to it. From the File menu, select Save WISE File. You are prompted for the folder and a **File Name Tag** which are used to create a **File Name**. This File Name incorporates the original WISE File name, date (encoded timestamp), and your tag. You also select the scenarios to include. A screenshot is shown below. Click **Save** to write the file. This file can be large because it contains the RiverWare model.



Export Scenarios: creates a Scenario file (*.sce) to export selected scenarios. From the **File** menu, select **Export Scenarios**. You are prompted for the folder and a **File Name Tag** which is used to create a **File Name**. This File Name incorporates the original WISE File name, date, tag, and the extension sce. You also select the scenarios to include. A screenshot is shown below. Click **Save** and the file is written.



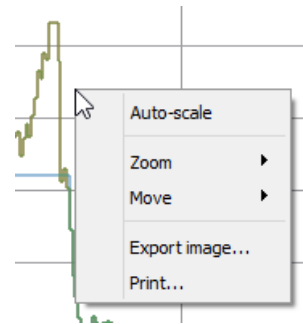
Note that whereas WISE files are self-contained, Scenario files can only be imported into RiverWISE after the WISE file associated with the scenarios has been opened. The *.sce file is much smaller than the WISE file as it is strictly the scenario input and result data, and does not include the model.

Note: [Warning] A WISE file represents the state of a RiverWare model at a very specific moment in time – when the file was generated by the developer. Each scenario applies to a specific original WISE file. It is not possible to import a scenario that was created in a different original WISE file. The naming convention used on *.wise and *.sce files will help you identify which scenarios can be imported into which WISE files. That is, the name and date in the file name, must match.

9. Plot controls

Within any plot shown in RiverWISE, you can zoom in by drawing a rectangle. Right Click and choose Auto-Scale to zoom to the full extents. The right-click context menu shows the following options:

- **Auto-scale:** scale and translate the plot to include the entire range of data.
- **Zoom:** Zoom in, zoom out on either one or both axes.
- **Move:** Translate the plot Left, Right, Up, or Down.
- **Export Image...:** Create an image file representing the plot. The resulting dialog allows you select the export image file extension, size, resolution, and destination. The available file type extensions are: *.bmp, *.jpeg, *.pbm, *.pgm, *.png, *.ppm, *.xbm or *.xpm. Note that the image resolution affects only file formats that use compression. In general, you should use the highest resolution.
- **Print...:** Send an image of the plot to an installed Printer. You can create a PDF of the plot by printing to a PDF driver, if one is installed.



10. Menu Operations

This section provides documentation of the RiverWISE menu operations.

10.1 The File Menu

The File menu contains the following options for dealing with RiverWISE related files:

- **Open WISE File:** Closes the currently open WISE file, and opens a new one. You are prompted for the path of the WISE file to open, then it is opened.

- **Save WISE File As:** Saves the original model/run and baseline information along with any additional scenarios that you select. You are first prompted for the folder to which the new WISE file should be written, a custom tag, and to indicate which scenarios to include. Then the file is written.
Note that WISE files always include the original baseline scenario, all other scenarios are optional. WISE files are written with the “wise” suffix.
- **Export Scenarios:** Writes a file containing selected scenarios. You are first prompted for the folder to which the new Scenario file should be written, a custom tag, and to indicate which scenarios to include, then the file is written.
Exported scenario information includes scenario description, input data and result data sets. Since baseline data sets are always included in their WISE file, they cannot be exported to Scenario files.
Scenario files are written with the “*.sce” suffix.
- **Import Scenarios:** Reads a set of scenarios from a Scenario file and appends them to the list of current scenarios. You are first prompted for the path of the Scenario file to be imported, and then the import occurs.
Only scenarios that were exported from the currently open WISE file can be imported.
Imported scenarios are renamed as necessary to ensure that all scenario names are unique within the currently open WISE file.
- **Export RiverWare Model:** Saves a RiverWare model file that corresponds to the last scenario execution. You are first prompted for the path of the file to which the model should be saved, then it is saved to that file.
The resulting model file can be provided to the original model developer, who can then load it into RiverWare and analyze differences aspects of the simulation that are not available within RiverWISE.
- **Close WISE File:** Clears all information associated with the current WISE file, losing any unsaved changes.
- **Exit:** Exits RiverWISE. Any unsaved changes are lost.

10.2 The Help Menu

Following are the Help Menu options:

- **Open Help:** Opens the RiverWISE documentation (this document) in a separate PDF application.
- **About RiverWISE:** Opens a window which displays information about the RiverWISE application, including version and copyright information.