

19 Module Run Table Display

Overview

The Module Run Table Display (available since 2015.01) can show data imported using the `importCsvModuleRunTablesActivity` of the [05 General Adapter Module](#). The imported CSV files are stored in FEWS and can be displayed using a table viewer with sorting, filtering and column hiding functionality.

Configuration

To use the Module Run Table Display viewer, configure it as `<explorerTask>` in `Explorer.xml`. For example:

```
<explorerTask name="Module Run Table Display">
  <mnemonic>T</mnemonic>
  <displayConfigFileName>ModuleRunTableDisplay</displayConfigFileName>
  <toolbarTask>true</toolbarTask>
  <menubarTask>true</menubarTask>
  <accelerator>ctrl T</accelerator>
  <toolWindow>false</toolWindow>
  <loadAtStartup>true</loadAtStartup>
  <onFailWarnAndContinue>false</onFailWarnAndContinue>
</explorerTask>
```

In the `DisplayConfigFiles` directory a `ModuleRunTableDisplay.xml` file needs to be created:

```
<?xml version="1.0" encoding="UTF-8"?>
<moduleRunTableDisplay xmlns="http://www.wldelft.nl/fews"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.wldelft.nl/fews http://fews.wldelft.nl/schemas/version1.0/moduleRunTableDisplay.
xsd"/>
```

Displaying Content

To display the data a topology node has to be selected that maps to the run that imports the csv. After selecting the node the Module Run Table Display will appear. On top of the display is a list with csv files that have been selected. Default the first file will be displayed. Clicking on any file will display the imported csv content.

BPA-HERMES Data Management Framework (Stand alone)

File Tools Options Help

ModuleRunTable Display

Solution Path

Import CSV Module Test1
Import CSV Module Test2
Import CSV Module Test3

| Solution # | Priority | Goal | Solution Index | Solution Type | Objective | Iteration | Statement ID | # Frozen Constraints | # Frozen Variables | Priority2 | Goal2 |
|------------|----------|----------------------------------|----------------|------------------|-----------|-----------|--------------|----------------------|--------------------|-----------|-------|
| 1 | 1 | Kentucky_Barkley_Tellico_Outflow | 0 | Repeated Maximin | 0.1 | 11.1.1 | 11.1.1 | 0 | 1 | 0 | |
| 2 | 2 | Day1_6am_Q | 1 | Repeated Maximin | 1.0 | 12.1.1 | 12.1.1 | 2 | 1 | 0 | |
| 3 | 2 | Day1_6am_Q | 1 | Repeated Maximin | 1.0 | 22.1.1 | 22.1.1 | 3 | 0 | 0 | |
| 4 | 3 | Day1_noon_Q | 3 | Repeated Maximin | 1.0 | 13.1.1 | 13.1.1 | 2 | 1 | 0 | |
| 5 | 3 | Day1_noon_Q | 4 | Repeated Maximin | 1.0 | 23.1.1 | 23.1.1 | 3 | 0 | 0 | |
| 6 | 4 | Day1_6pm_Q | 5 | Repeated Maximin | 1.0 | 14.1.1 | 14.1.1 | 2 | 1 | 0 | |
| 7 | 4 | Day1_6pm_Q | 6 | Repeated Maximin | 1.0 | 24.1.1 | 24.1.1 | 3 | 0 | 0 | |
| 8 | 5 | Day1_midn_Q | 7 | Repeated Maximin | 1.0 | 15.1.1 | 15.1.1 | 2 | 1 | 0 | |
| 9 | 8 | GreatFalls Large Oper Range | 8 | Repeated Maximin | 10.0 | 18.1.1 | 18.1.1 | 0 | 1 | 0 | |
| 10 | 9 | GreatFalls NoSpill | 9 | Repeated Maximin | 0.1 | 19.1.1 | 19.1.1 | 0 | 1 | 0 | |
| 11 | 10 | GreatFalls 2 Day | 10 | Repeated Maximin | 1.0 | 110.1.1 | 110.1.1 | 0 | 1 | 0 | |
| 12 | 11 | EndingTargets | 11 | Repeated Maximin | 10.0 | 111.1.1 | 111.1.1 | 3 | 0 | 0 | |
| 13 | 11 | EndingTargets | 12 | Repeated Maximin | 10.0 | 211.1.1 | 211.1.1 | 1 | 55 | 0 | |
| 14 | 11 | EndingTargets | 13 | Repeated Maximin | 10.0 | 311.1.1 | 311.1.1 | 3 | 0 | 0 | |
| 15 | 12 | Reservoir_Target | 14 | Repeated Maximin | 0.1 | 112.1.1 | 112.1.1 | 2 | 1 | 0 | |
| 16 | 13 | GreatFallsDailyTarget | 15 | Repeated Maximin | 10.0 | 113.1.1 | 113.1.1 | 4 | 1 | 0 | |
| 17 | 14 | GreatFalls_Bot&TopOperZone | 16 | Repeated Maximin | 1.0 | 114.1.1 | 114.1.1 | 3 | 0 | 0 | |
| 18 | 14 | GreatFalls_Bot&TopOperZone | 17 | Repeated Maximin | 1.0 | 214.1.1 | 214.1.1 | 3 | 0 | 0 | |
| 19 | 14 | GreatFalls_Bot&TopOperZone | 18 | Repeated Maximin | 1.0 | 314.1.1 | 314.1.1 | 1 | 0 | 0 | |
| 20 | 19 | SpecialOperations | 19 | Repeated Maximin | 10.0 | 119.1.1 | 119.1.1 | 2 | 0 | 0 | |
| 21 | 19 | SpecialOperations | 20 | Repeated Maximin | 10.0 | 219.1.1 | 219.1.1 | 3 | 0 | 0 | |
| 22 | 20 | Tribs Minimum Flows | 21 | Repeated Maximin | 100.0 | 120.1.1 | 120.1.1 | 2 | 0 | 0 | |
| 23 | 20 | Tribs Minimum Flows | 22 | Repeated Maximin | 100.0 | 220.1.1 | 220.1.1 | 2 | 0 | 0 | |
| 24 | 20 | Tribs Minimum Flows | 23 | Repeated Maximin | 100.0 | 320.1.1 | 320.1.1 | 3 | 0 | 0 | |
| 25 | 20 | Tribs Minimum Flows | 24 | Repeated Maximin | 100.0 | 420.1.1 | 420.1.1 | 2 | 0 | 0 | |
| 26 | 20 | Tribs Minimum Flows | 25 | Repeated Maximin | 100.0 | 520.1.1 | 520.1.1 | 2 | 0 | 0 | |
| 27 | 20 | Tribs Minimum Flows | 26 | Repeated Maximin | 100.0 | 620.1.1 | 620.1.1 | 1 | 0 | 0 | |
| 28 | 20 | Tribs Minimum Flows | 27 | Repeated Maximin | 100.0 | 720.1.1 | 720.1.1 | 2 | 0 | 0 | |
| 29 | 20 | Tribs Minimum Flows | 28 | Repeated Maximin | 100.0 | 820.1.1 | 820.1.1 | 2 | 0 | 0 | |
| 30 | 20 | Tribs Minimum Flows | 29 | Repeated Maximin | 100.0 | 920.1.1 | 920.1.1 | 2 | 0 | 0 | |
| 31 | 20 | Tribs Minimum Flows | 30 | Repeated Maximin | 100.0 | 1020.1.1 | 1020.1.1 | 2 | 0 | 0 | |
| 32 | 20 | Tribs Minimum Flows | 31 | Repeated Maximin | 100.0 | 1120.1.1 | 1120.1.1 | 2 | 0 | 0 | |
| 33 | 20 | Tribs Minimum Flows | 32 | Repeated Maximin | 100.0 | 1220.1.1 | 1220.1.1 | 2 | 0 | 0 | |
| 34 | 20 | Tribs Minimum Flows | 33 | Repeated Maximin | 100.0 | 1320.1.1 | 1320.1.1 | 2 | 0 | 0 | |
| 35 | 20 | Tribs Minimum Flows | 34 | Repeated Maximin | 100.0 | 1420.1.1 | 1420.1.1 | 2 | 0 | 0 | |
| 36 | 20 | Tribs Minimum Flows | 35 | Repeated Maximin | 100.0 | 1520.1.1 | 1520.1.1 | 2 | 0 | 0 | |
| 37 | 20 | Tribs Minimum Flows | 36 | Repeated Maximin | 100.0 | 1620.1.1 | 1620.1.1 | 2 | 0 | 0 | |
| 38 | 20 | Tribs Minimum Flows | 37 | Repeated Maximin | 100.0 | 1720.1.1 | 1720.1.1 | 2 | 0 | 0 | |
| 39 | 20 | Tribs Minimum Flows | 38 | Repeated Maximin | 100.0 | 1820.1.1 | 1820.1.1 | 2 | 0 | 0 | |
| 40 | 20 | Tribs Minimum Flows | 39 | Repeated Maximin | 100.0 | 1920.1.1 | 1920.1.1 | 2 | 0 | 0 | |
| 41 | 20 | Tribs Minimum Flows | 40 | Repeated Maximin | 100.0 | 2020.1.1 | 2020.1.1 | 2 | 0 | 0 | |
| 42 | 20 | Tribs Minimum Flows | 41 | Repeated Maximin | 100.0 | 2120.1.1 | 2120.1.1 | 2 | 0 | 0 | |

11953 rows

Map ModuleRunTable Display Plots Manual Forecast Database Lister

Logs

Rudie Ekkelenkamp Current system time:11-11-2013 12:00 PST 07:13:26 GMT 08:13:26 CET Stand alone -143.719, 37.221 0.0 MB/s 49 MB

Sorting

The table can be sorted by clicking on a header.

BPA-HERMES Data Management Framework (Stand alone)

File Tools Options Help

ModuleRunTable Display

Solution Path

Import CSV Module Test1
Import CSV Module Test2
Import CSV Module Test3

| Solution # | Priority | Goal | Solution Index | Solution Type | Objective | Iteration | Statement ID | # Frozen Constraints | # Frozen Variables | Priority2 | Goal2 |
|------------|----------|----------------------------------|----------------|------------------|-----------|-----------|--------------|----------------------|--------------------|-----------|-----------------|
| 1 | 1 | Kentucky_Barkley_Tellico_Outflow | 0 | Repeated Maximin | 0.1 | 11.1.1 | 11.1.1 | 0 | 1 | 0 | |
| 1 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | |
| 2 | 2 | Day1_6am_Q | 1 | Repeated Maximin | 1.0 | 12.1.1 | 12.1.1 | 2 | 1 | 0 | |
| 2 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 2Day1_6am_Q |
| 2 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 2Day1_6am_Q |
| 2 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 0 |
| 3 | 2 | Day1_6am_Q | 2 | Repeated Maximin | 1.0 | 22.1.1 | 22.1.1 | 3 | 0 | 0 | |
| 3 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 2Day1_6am_Q |
| 3 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 2Day1_6am_Q |
| 3 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 2Day1_6am_Q |
| 4 | 3 | Day1_noon_Q | 3 | Repeated Maximin | 1.0 | 13.1.1 | 13.1.1 | 2 | 1 | 0 | |
| 4 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 3Day1_noon_Q |
| 4 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 3Day1_noon_Q |
| 4 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 3Day1_noon_Q |
| 5 | 3 | Day1_noon_Q | 4 | Repeated Maximin | 1.0 | 23.1.1 | 23.1.1 | 3 | 0 | 0 | |
| 5 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 3Day1_noon_Q |
| 5 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 3Day1_noon_Q |
| 5 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 3Day1_noon_Q |
| 6 | 4 | Day1_6pm_Q | 5 | Repeated Maximin | 1.0 | 14.1.1 | 14.1.1 | 2 | 1 | 0 | |
| 6 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 4Day1_6pm_Q |
| 6 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 4Day1_6pm_Q |
| 6 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 0 |
| 7 | 4 | Day1_6pm_Q | 6 | Repeated Maximin | 1.0 | 24.1.1 | 24.1.1 | 3 | 0 | 0 | |
| 7 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 4Day1_6pm_Q |
| 7 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 4Day1_6pm_Q |
| 7 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 4Day1_6pm_Q |
| 8 | 5 | Day1_midn_Q | 7 | Repeated Maximin | 1.0 | 15.1.1 | 15.1.1 | 2 | 1 | 0 | |
| 8 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 5Day1_midn_Q |
| 8 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 5Day1_midn_Q |
| 8 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 0 |
| 9 | 8 | GreatFalls Large Oper Range | 8 | Repeated Maximin | 10.0 | 18.1.1 | 18.1.1 | 0 | 1 | 0 | |
| 9 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 0 |
| 10 | 9 | GreatFalls NoSpill | 9 | Repeated Maximin | 0.1 | 19.1.1 | 19.1.1 | 0 | 1 | 0 | |
| 10 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 0 |
| 11 | 10 | GreatFalls 2 Day | 10 | Repeated Maximin | 1.0 | 110.1.1 | 110.1.1 | 0 | 1 | 0 | |
| 11 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 0 |
| 12 | 11 | EndingTargets | 11 | Repeated Maximin | 10.0 | 111.1.1 | 111.1.1 | 3 | 0 | 0 | |
| 12 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 5Day1_midn_Q |
| 12 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 5Day1_midn_Q |
| 12 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 11EndingTargets |
| 13 | 11 | EndingTargets | 12 | Repeated Maximin | 10.0 | 211.1.1 | 211.1.1 | 1 | 55 | 0 | |
| 13 | 0 | | 0 | 0.0 | 0.0 | 0 | | 0 | 0 | 0 | 11EndingTargets |

11953 rows

Map ModuleRunTable Display Plots Manual Forecast Database Lister

Logs

Rudie Ekkelenkamp Current system time:11-11-2013 12:00 PST 07:16:05 GMT 08:16:05 CET Stand alone -144.422, 37.291 0.0 MB/s 59 MB

Filtering

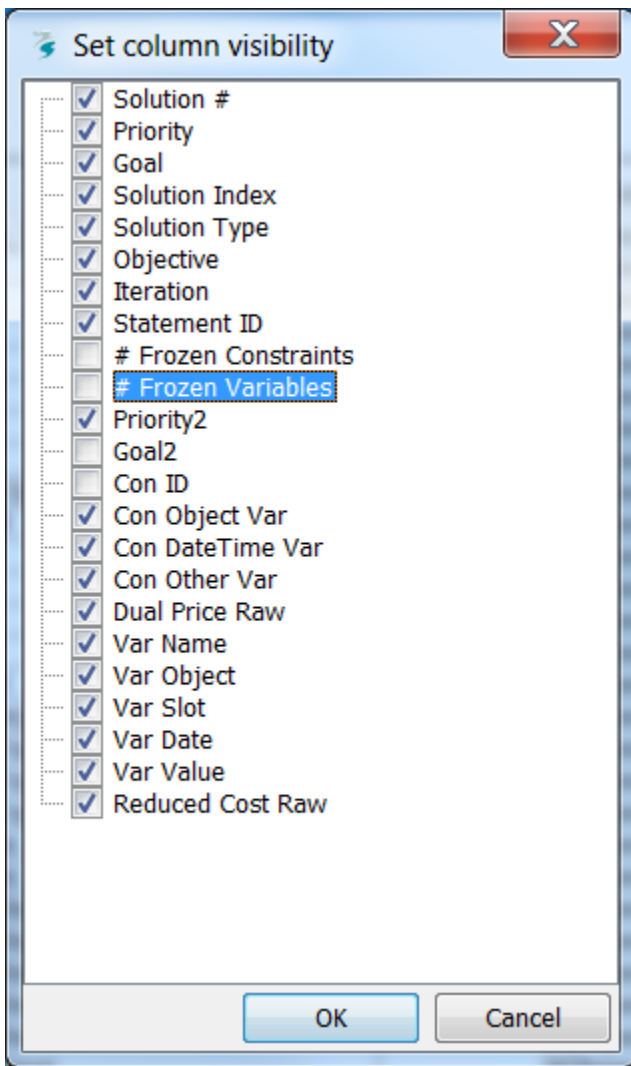
Tables can be filtered by double clicking on a cell entry. Only records with the same entry for the selected column will be displayed. The selected entry will be highlighted (blue). Double clicking another entry will expand the filter. To undo the filtering the highlighted column has to be double clicked again.

The screenshot shows the BPA-HERMES Data Management Framework (Stand alone) application. The main window displays a table of solution data. The table has the following columns: Solution #, Priority, Goal, Solution Index, Solution Type, Objective, Iteration, Statement ID, # Frozen Constraints, # Frozen Variables, Priority2, and Goal2. The data is filtered to show only records where the 'Goal' column contains '20 Tribs Minimum Flows'. The table contains 39 rows of data, with the first row (Solution # 22) highlighted in blue. The interface includes a menu bar (File, Tools, Options, Help), a toolbar, and a sidebar with navigation options like 'Forecasts', 'Data Viewer', and 'Plots'. The status bar at the bottom shows system information such as 'Current system time: 11-11-2013 12:00 PST' and '07:17:19 GMT'.

| Solution # | Priority | Goal | Solution Index | Solution Type | Objective | Iteration | Statement ID | # Frozen Constraints | # Frozen Variables | Priority2 | Goal2 |
|------------|----------|------------------------|----------------|------------------|-----------|-----------|--------------|----------------------|--------------------|-----------|-------|
| 22 | 20 | 20 Tribs Minimum Flows | 21 | Repeated Maximin | 100.0 | 120.1.1 | | 2 | 0 | 0 | |
| 23 | 20 | 20 Tribs Minimum Flows | 22 | Repeated Maximin | 100.0 | 220.1.1 | | 2 | 0 | 0 | |
| 25 | 20 | 20 Tribs Minimum Flows | 24 | Repeated Maximin | 100.0 | 420.1.1 | | 2 | 0 | 0 | |
| 26 | 20 | 20 Tribs Minimum Flows | 25 | Repeated Maximin | 100.0 | 520.1.1 | | 2 | 0 | 0 | |
| 28 | 20 | 20 Tribs Minimum Flows | 27 | Repeated Maximin | 100.0 | 720.1.1 | | 2 | 0 | 0 | |
| 29 | 20 | 20 Tribs Minimum Flows | 28 | Repeated Maximin | 100.0 | 820.1.1 | | 2 | 0 | 0 | |
| 30 | 20 | 20 Tribs Minimum Flows | 29 | Repeated Maximin | 100.0 | 920.1.1 | | 2 | 0 | 0 | |
| 31 | 20 | 20 Tribs Minimum Flows | 30 | Repeated Maximin | 100.0 | 1020.1.1 | | 2 | 0 | 0 | |
| 32 | 20 | 20 Tribs Minimum Flows | 31 | Repeated Maximin | 100.0 | 1120.1.1 | | 2 | 0 | 0 | |
| 33 | 20 | 20 Tribs Minimum Flows | 32 | Repeated Maximin | 100.0 | 1220.1.1 | | 2 | 0 | 0 | |
| 34 | 20 | 20 Tribs Minimum Flows | 33 | Repeated Maximin | 100.0 | 1320.1.1 | | 2 | 0 | 0 | |
| 35 | 20 | 20 Tribs Minimum Flows | 34 | Repeated Maximin | 100.0 | 1420.1.1 | | 2 | 0 | 0 | |
| 36 | 20 | 20 Tribs Minimum Flows | 35 | Repeated Maximin | 100.0 | 1520.1.1 | | 2 | 0 | 0 | |
| 37 | 20 | 20 Tribs Minimum Flows | 36 | Repeated Maximin | 100.0 | 1620.1.1 | | 2 | 0 | 0 | |
| 38 | 20 | 20 Tribs Minimum Flows | 37 | Repeated Maximin | 100.0 | 1720.1.1 | | 2 | 0 | 0 | |
| 39 | 20 | 20 Tribs Minimum Flows | 38 | Repeated Maximin | 100.0 | 1820.1.1 | | 2 | 0 | 0 | |
| 40 | 20 | 20 Tribs Minimum Flows | 39 | Repeated Maximin | 100.0 | 1920.1.1 | | 2 | 0 | 0 | |
| 41 | 20 | 20 Tribs Minimum Flows | 40 | Repeated Maximin | 100.0 | 2020.1.1 | | 2 | 0 | 0 | |
| 42 | 20 | 20 Tribs Minimum Flows | 41 | Repeated Maximin | 100.0 | 2120.1.1 | | 2 | 0 | 0 | |
| 43 | 20 | 20 Tribs Minimum Flows | 42 | Repeated Maximin | 100.0 | 2220.1.1 | | 2 | 0 | 0 | |
| 44 | 20 | 20 Tribs Minimum Flows | 43 | Repeated Maximin | 100.0 | 2320.1.1 | | 2 | 0 | 0 | |
| 45 | 20 | 20 Tribs Minimum Flows | 44 | Repeated Maximin | 100.0 | 2420.1.1 | | 2 | 0 | 0 | |
| 46 | 20 | 20 Tribs Minimum Flows | 45 | Repeated Maximin | 100.0 | 2520.1.1 | | 2 | 0 | 0 | |
| 56 | 20 | 20 Tribs Minimum Flows | 55 | Repeated Maximin | 100.0 | 3520.1.1 | | 2 | 0 | 0 | |
| 59 | 20 | 20 Tribs Minimum Flows | 58 | Repeated Maximin | 100.0 | 3820.1.1 | | 2 | 0 | 0 | |
| 60 | 20 | 20 Tribs Minimum Flows | 59 | Repeated Maximin | 100.0 | 3920.1.1 | | 2 | 0 | 0 | |

Column hiding

In case not all columns should be visible, right clicking on a value will show the "Set column visibility" menu. This allows a user to select or deselect columns that should be visible (at least one column has to remain visible). These settings will be stored in the user settings and will remain available after FEWS was restarted.



On fail configuration

Since 2019.02.

By design the activity will fail if the configured importFile is not found. To override this behaviour the following configuration option is available:

```
<onFailWarnAndContinue>true</onFailWarnAndContinue>
```

If onFailWarnAndContinue has been set to true, a warning will be logged if the configured importFile cannot be found, but the activity won't fail.