

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.

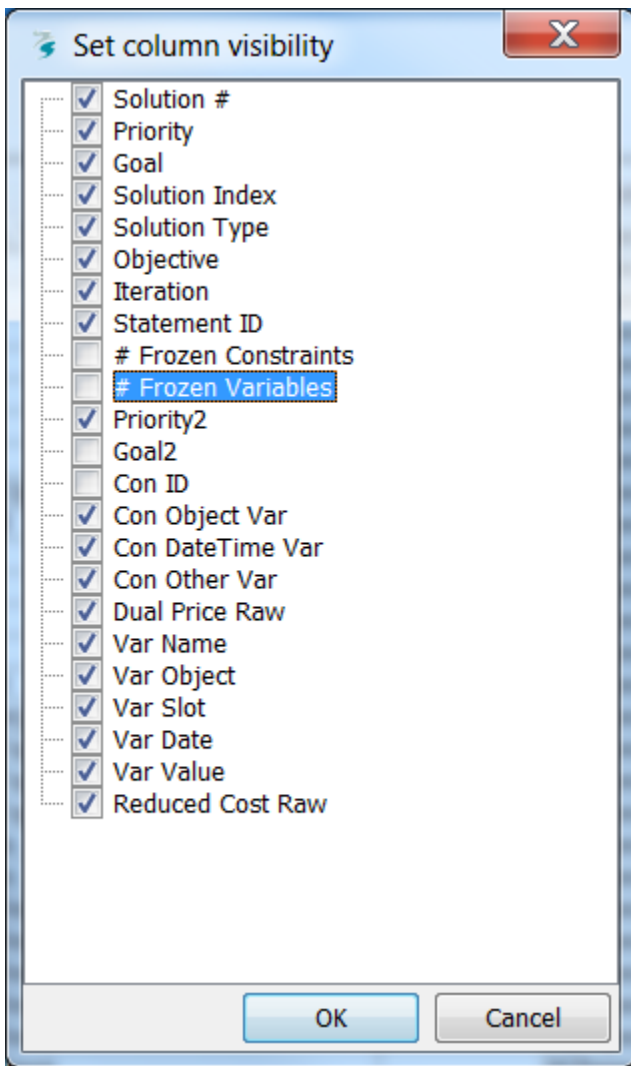
The screenshot shows the BPA-HERMES Data Management Framework (Stand alone) application. The main window displays a table of solution data. The table has the following columns: Solution #, Priority, Goal, Solution Index, Solution Type, Objective, Iteration, Statement ID, # Frozen Constraints, # Frozen Variables, Priority2, and Goal2. The data is filtered to show only records where the 'Goal' is '20 Tribs Minimum Flows'. The 'Solution Type' for all records is 'Repeated Maximin'. The 'Objective' is consistently 100.0, and the 'Iteration' values range from 120.1.1 to 3920.1.1. The '# Frozen Constraints' and '# Frozen Variables' are both 2 for all records. The 'Priority2' and 'Goal2' columns are both 0.

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	

The interface also includes a sidebar with navigation options like 'Forecasts', 'Data Viewer', and 'Plots'. At the bottom, there is a status bar showing system time (11-11-2013 12:00 PST), GMT and CET times, and system resources (RAM usage: 144,422 / 37,291 MB).

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 overrule 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.