

Graphic types and their settings in CAPRI

- Wolfgang Britz, May 2008 -

General handling of graphs

The selection of graphs is based on the drop-down box in the tool bar:

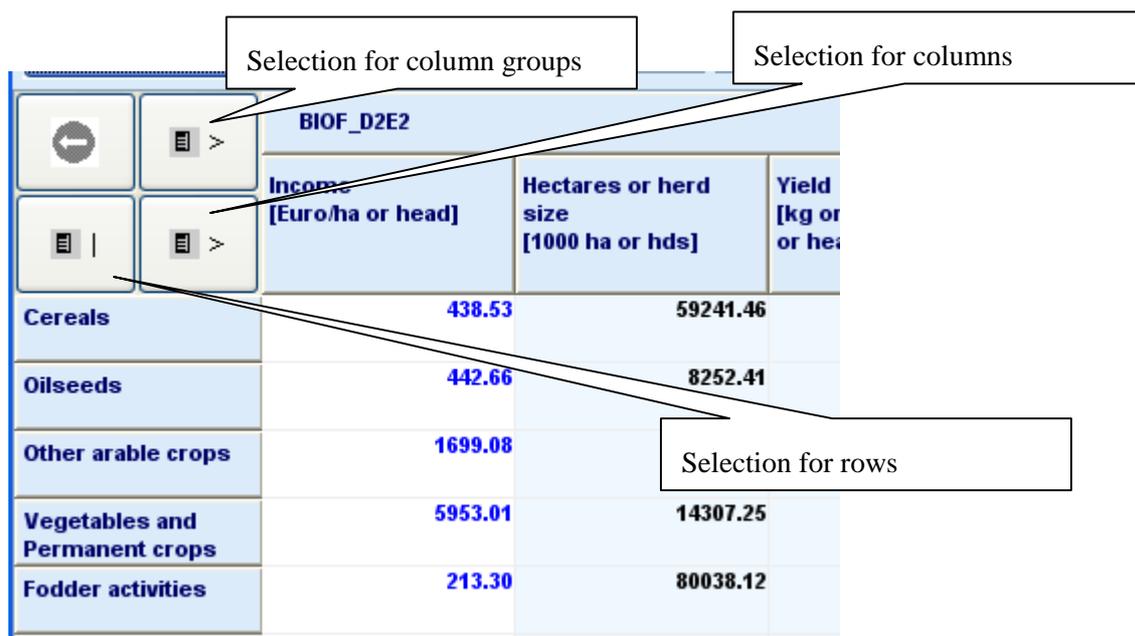


The following *graphic types* are currently supported:

- Bar charts
- Line charts
- Point charts
- Spiderweb charts
- Pie charts

The *selection* of rows and columns shown in the graph can be set in three different way, for all type of graphics::

- Using the selection dialog (upper left corner of the table, or the buttons next to the graphic type selection drop down box: double click)

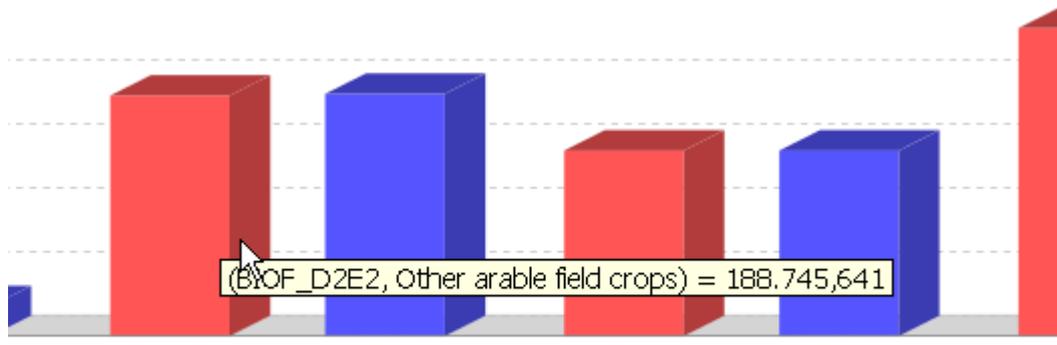


BIOF_D2E2			
	Income [Euro/ha or head]	Hectares or herd size [1000 ha or hds]	Yield [kg or or hea]
Cereals	438.53	59241.46	
Oilseeds	442.66	8252.41	
Other arable crops	1699.08		
Vegetables and Permanent crops	5953.01	14307.25	
Fodder activities	213.30	80038.12	

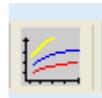
- Using those buttons in graphic mode: single clicks with the left mouse button will scroll down in the list, right mouse single clicks will scroll up.

- Scrolling the table with the scroll bar to a specific position. The column/row in the upper left corner of the table will define the starting point for the graphic.

All type of graphics support *tooltips* to query the numerical values underlying the graphic. The tooltips appear when moving the mouse on a graphic element linked to the value as e.g. a bar.



A perhaps unexpected feature is the zooming in and out with the mouse. The graphs support *saving* to disk via a popup menu and *printing*. The popup menu allows also changing for the current graph temporarily certain properties. Some settings which will pertain can be edited opening the graphics



option dialogue, press:

Graphics settings

<p>Options for bar charts</p> <p>Maximal number of plots: <input type="text" value="4"/></p> <p>Maximal number of bar blocks: <input type="text" value="5"/></p> <p>Maximal number of bars per blocks: <input type="text" value="10"/></p> <p><input checked="" type="checkbox"/> 3D effect <input checked="" type="checkbox"/> Plot vertical</p>	<p>Options for line charts</p> <p>Maximal number of plots: <input type="text" value="5"/></p> <p>Maximal number of series: <input type="text" value="10"/></p> <p>Maximal number of observations: <input type="text" value="10"/></p> <p><input type="checkbox"/> 3D effect <input checked="" type="checkbox"/> Plot vertical</p> <p><input checked="" type="checkbox"/> Draw lines <input checked="" type="checkbox"/> Draw Shapes</p>
<p>Options for spidercharts</p> <p>Maximal number of axis: <input type="text" value="5"/></p> <p>Maximal number of series: <input type="text" value="5"/></p> <p><input checked="" type="checkbox"/> Filled shapes</p>	<p>Options for pie charts</p> <p>Maximal number of plots: <input type="text" value="4"/></p> <p>Maximal number of observations: <input type="text" value="25"/></p> <p>Minimum percentage to draw label: <input type="text" value="5"/></p> <p><input checked="" type="checkbox"/> 3D effect</p>
<p>Options for all charts</p> <p>Font size relative to tables in %: <input type="text" value="60"/></p> <p style="text-align: center;"><input type="button" value="ok"/></p>	

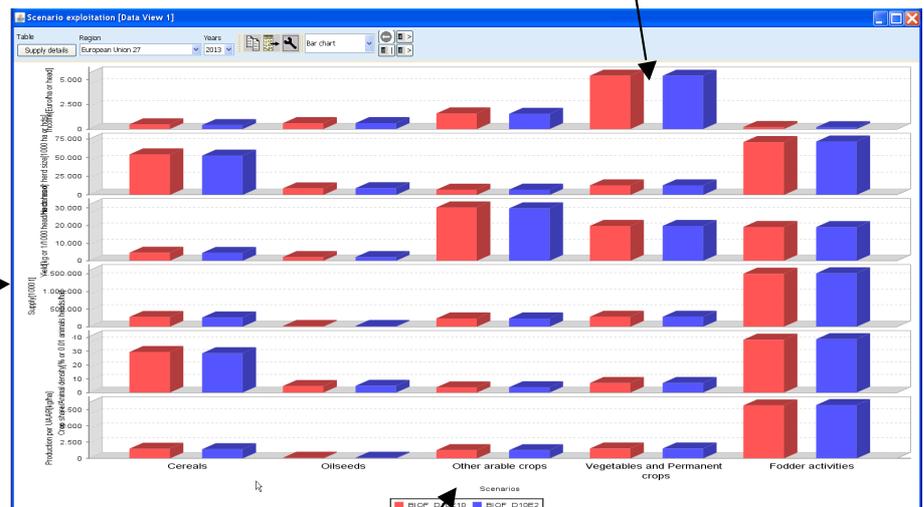
Hopefully, most of the options are self-explaining at least after reading the rest of that document.

Bar charts

Bar chart treat the columns – typically the table items – as having different units and consequently assign an own plot with a value axis to each of them. The observations are taken from the table rows and define the domain, the horizontal axis. Each column groups are present – typically the scenarios – receives it own colour. An example is given below.

Currently, there a fixed is a fixed maximum of 5 plots. It is planned to let the user change those and similar limits in the near future.

	BIOP_D10E10					BIOP_D10E2						
	Income [€(ha or head)]	Haecares or herd size [1000 ha or hds]	Yield [kg or t/1000 ha or head]	Supply [1000t]	Crop share/Animal density [% or t/1 animals heads/ha]	Production per UAAR [kg/ha]	Income [€(ha or head)]	Haecares or herd size [1000 ha or hds]	Yield [kg or t/1000 ha or head]	Supply [1000t]	Crop share/Animal density [% or t/1 animals heads/ha]	Production per UAAR [kg/ha]
Cereals	633.61	6000.15	511.61	20734.55	32.71	1673.22	615.65	50191.70	4000.15	20966.13	31.75	1554.17
Oilseeds	468.78	9007.77	2388.65	23407.34	5.34	177.55	674.34	10095.46	2278.85	24812.51	5.50	138.75
Other arable crops	1708.65	7898.61	33613.87	26486.73	4.25	1424.31	1714.54	7875.35	32981.81	26878.51	4.31	1419.70
Vegetables and permanent crops	5987.44	6798.31	21979.59	21556.19	7.78	1702.16	5078.18	14211.70	27916.87	27542.28	7.77	1993.63
Fodder activities	236.71	78794.75	21240.89	168200.12	42.63	9607.99	216.91	79197.87	29771.64	167351.38	41.88	9921.46
Set aside and fallow land	55.31	13204.43	154.21	2064.00	7.29	11.24	67.88	13887.10	168.90	2724.46	7.56	12.17
All cattle activities	277.89	94340.88	85.89	8982.89	51.38	44.12	277.88	5592.56	88.85	8651.35	50.96	43.85
Breaf meat activities	6.82	38009.09	346.65	14678.58	16.77	58.55	1.79	30387.82	346.29	14626.54	16.55	57.31



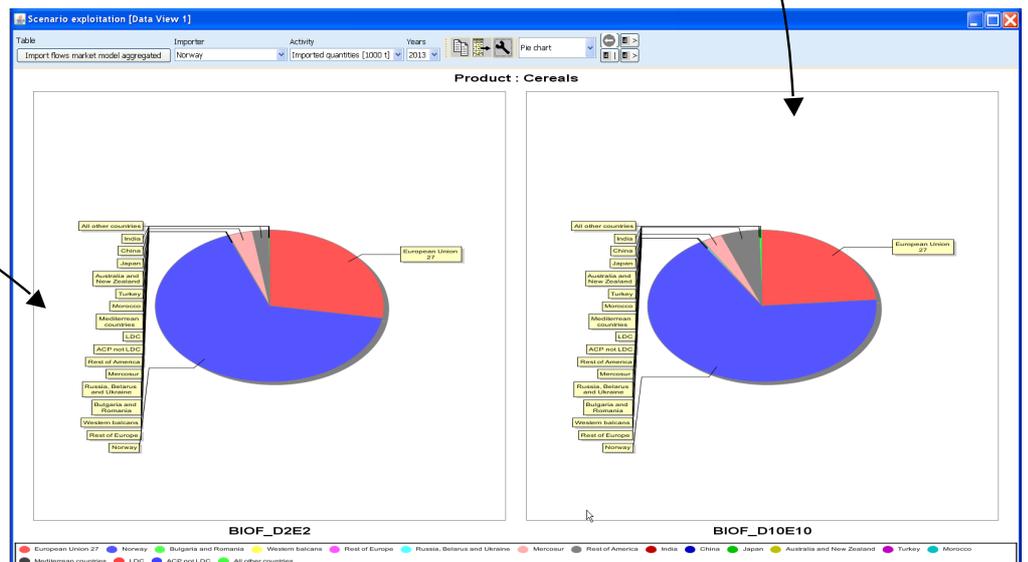
Line and point charts

Line and point charts assume that the columns of the table present some ordered sets a e.g. years or iterations. There is currently a maximum of 25 such observations set. The different series to plot are taken from the table rows. If different column groups are present, those receive their own plot with an own value axis.

Scenario exploitation [Data View 1]

Table Importer Activity Years
 Import flows market model aggregated Norway Imported quantities [1000 t] 2013

	European Union 27	Norway	Bulgaria and Romania	Western Balkans	Rest of Europe	Russia, Belarus and Ukraine	Morocco	Rest of America	India	China	Japan	Australia and New Zealand	Turkey	Morocco
Cereals	468.67	1107.33				2.13	56.48	38.38						
Oilseeds	6.38	146.6	1.16				411.58	8.81						
Other arable field crops	34.11	251.65												
Vegetables and Permanent crops	284.71	147.77			8.78		83.87	351.58		81.34		41.65	39.73	
Meat	2.51	286.56					8.24	6.15		8.73		8.91		
Other Animal products	8.88	42.87												



Spiderweb plots

Spiderweb charts are useful to compare several dimensions simultaneously across a range of alternatives. It is assumed that the columns show the items which each receiving its own axis, whereas the column groups are the alternatives to compare. The axis are not ticked with numerical values, instead they are always scaled to cover the minimum and maximum found in any alternative.

Scenario exploitation [Data View 1]

Table: Multi-Functionality overview | Region: European Union 27 | Years: 2013

BIOF_D2E2							BIOF_D2E10					
Agricultural income per UAA [Euro/ha]	Agricultural income per capita [Euro/capita]	Agricultural land rent [Euro/ha]	Shannon index	Ruminant density on grass land [Livestock units/ha]	Calories produced per Euro [Calories/Euro]	Revenues per intermediate costs [Euro/Euro]	Premiums per revenues [Euro/Euro]	Agricultural income per UAA [Euro/ha]	Agricultural income per capita [Euro/capita]	Agricultural land rent [Euro/ha]	Shannon index	Ruminant density on grass land [Livestock units/ha]
1095.1	411.00	272.37	2.79	0.95	18.47	2.37	0.13	1138.16	427.16	292.75	2.78	0.

