

# User Manual

## Statistical Web Portal

### NBStat



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NBRNM's statistical web portal is a tool for generating and downloading data from the NBRNM's database. The statistical web portal is a PX Web solution tailor made for the NBRNM, intended for external data users.



Народна банка на Република Северна Македонија  
National Bank of the Republic of North Macedonia



## Statistical Web Portal



↑

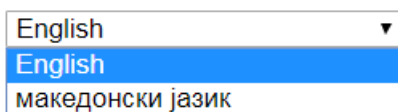
Select database:  
External Statistics  
Monetary and Interest Rates Statistics

Проектот е финансиран од Европската Унија / This project is funded by the European Union



The statistical portal can be accessed at <http://nbstat.nbrm.mk/>

When accessing the web portal, the language change option is located at the top right hand corner (see the image below).



The process for generating and downloading data is contained of three steps:



### 1. Choose table

The databases are divided into areas:

- External Statistics
- Monetary and Interest Rates Statistics

External Statistics contains the following data categories:

## External Statistics

- Balance of Payments
- International Reserves and Foreign Currency Liquidity
- International Investment Position
- Direct Investment
- Portfolio Investment
- External Debt
- Effective Exchange Rate

The area Monetary and Interest Rates Statistics contains the following data categories:

## Monetary and Interest Rates Statistics

- Interest Rates Statistics
- Monetary statistics

Each category is made up of distinct subcategories of data time-series, which are further classified by the data structure and frequency. For instance, the Balance of Payments includes monthly, quarterly and yearly data, where the monthly data contains the following:

## External Statistics

- Balance of Payments**
  - Balance of Payments - monthly data**
    - Balance of Payments, Republic of North Macedonia, aggregated data, by months
    - Balance of Payments, Republic of North Macedonia, goods and services, by months
    - Balance of Payments, Republic of North Macedonia, primary income, by months
    - Balance of Payments, Republic of North Macedonia, secondary income, by months
    - Balance of Payments, Republic of North Macedonia, capital account, by months
    - Balance of Payments, Republic of North Macedonia, financial account, by months
    - Balance of Payments, Republic of North Macedonia, memorandum items, by months
  - Balance of Payments - quarterly data
  - Balance of Payments - yearly data
- International Reserves and Foreign Currency Liquidity
- International Investment Position
- Direct Investment
- Portfolio Investment
- External Debt
- Effective Exchange Rate

## 2. Choose variable

Once a certain table (data series) has been selected, as marked in the example above, Balance of Payments, Republic of North Macedonia, aggregated data, by months, there will appear the following screen of variable choice options:

Statistical Web Portal

External Statistics >> Balance of Payments >> Balance of Payments - monthly data >> Balance of Payments, Republic of North Macedonia, aggregated data, by months

1 Choose table 2 Choose variable 3 Show table

Balance of Payments, Republic of North Macedonia, aggregated data, by months

Select variable About table

Mark your selections and choose between table on screen and file format. Marking tips  
For variables marked \* you need to select at least one value

Items *	Currency *	Month *
<input checked="" type="checkbox"/> - + -	<input checked="" type="checkbox"/> - + -	<input checked="" type="checkbox"/> - + -
Total 60 Selected 2	Total 2 Selected 1	Total 225 Selected 12
1. Current account 1.a. Credit 1.b. Debit 1.1+1.2. Goods and services 1.1.+1.2.a. Credit 1.1.+1.2.b. Debit	millions EUR millions USD	2019M03 2019M02 2019M01 2018M12 2018M11 2018M10
Search <input type="text"/> >	Search <input type="text"/> >	Search <input type="text"/> >
<input type="checkbox"/> Beginning of word	<input type="checkbox"/> Beginning of word	<input type="checkbox"/> Beginning of word

Number of selected data cells are: 24 (maximum number allowed is 1,000,000)  
Presentation on screen is limited to 1,000 rows and 250 columns

Show table

### 2.1. Variables

The available variables shown in a certain subcategory are dependent on an excel table generated for particular data. In our example, the filters are organized by:

- Items (list of variables which the user intends to analyze)
- Currency (in millions EUR, millions USD)
- Month (list of months for which data is available)

Users can select the desired items (variables), currency and time period (in this case months). More fields of one variable can be selected by holding the “Ctrl” key. Various buttons are available to assist the selection process:

**Items \***  
 Select all  
 Deselect all  
 Sort ascending  
 Sort descending

Total 60 Selected 0

1. Current account  
 1.a. Credit  
 1.b. Debit  
 1.1+1.2. Goods and services  
 1.1.+1.2.a. Credit  
 1.1.+1.2.b. Debit

Search   Advanced search

Beginning of word

Once the variable choice has been made in the available fields, table creation step follows. A drop-down menu with available data visualisation choices is located at the bottom left hand corner:

Show table

Table - Layout 2  
 Chart - Bar  
 Chart - Line  
 PX-file  
 Tab delimited with heading  
 Comma delimited with heading  
 Space delimited with heading  
 Semicolon delimited with heading  
 Excel (xlsx)

Show table

### 3. Show table

If the user chooses Show table for the selected items 1.a. Credit and 1.b. Debit, in currency millions EUR for the last 12 months, the following result is expected to be generated:

Show table About table

Edit and Calculate Save table as Show table

px csv xls xstat

+ Table settings

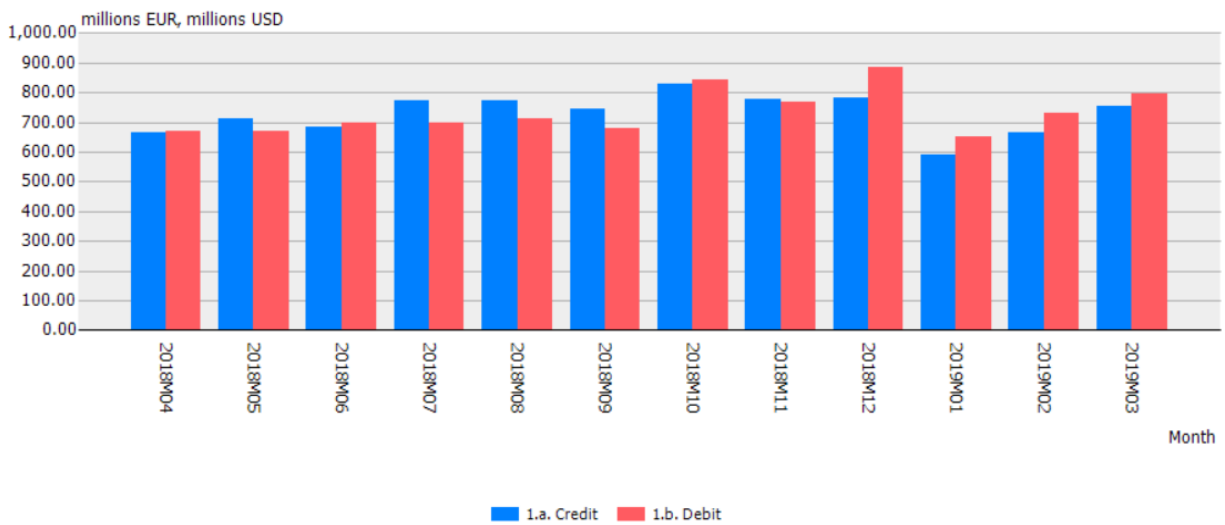
+ Save your query

**Balance of Payments, Republic of North Macedonia, aggregated data, by months**

	Millions EUR											
	2018M04	2018M05	2018M06	2018M07	2018M08	2018M09	2018M10	2018M11	2018M12	2019M01	2019M02	2019M03
1.a. Credit	664.61	714.07	683.02	770.37	770.99	745.91	827.90	776.61	783.56	590.96	666.60	755.22
1.b. Debit	669.66	669.33	698.87	700.02	711.68	679.76	840.63	768.76	885.81	650.83	729.87	794.56

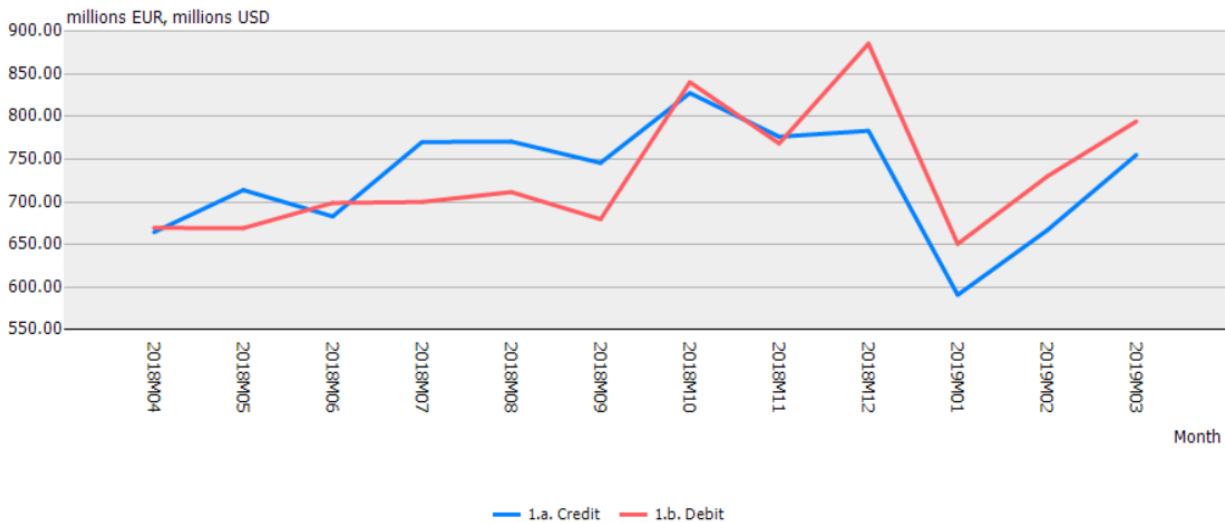
If the Chart-Bar option was chosen, the following result would be expected:

### Balance of Payments, Republic of North Macedonia, aggregated data, by months



If the user chose the Chart-Line option, the following result would be expected:

### Balance of Payments, Republic of North Macedonia, aggregated data, by months

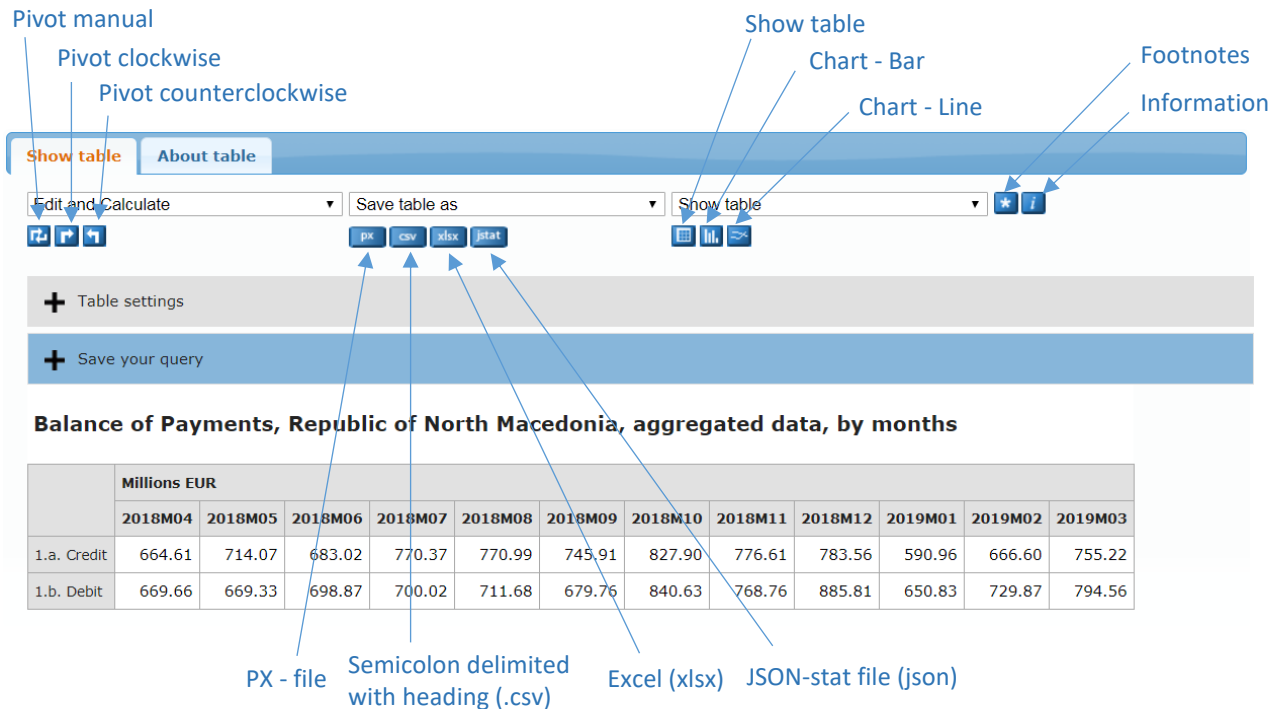


An option for data saving in .xlsx, .csv and .px format can also be accessed through the analyzed drop-down menu.

#### 3.1. Changes in the table's visualization

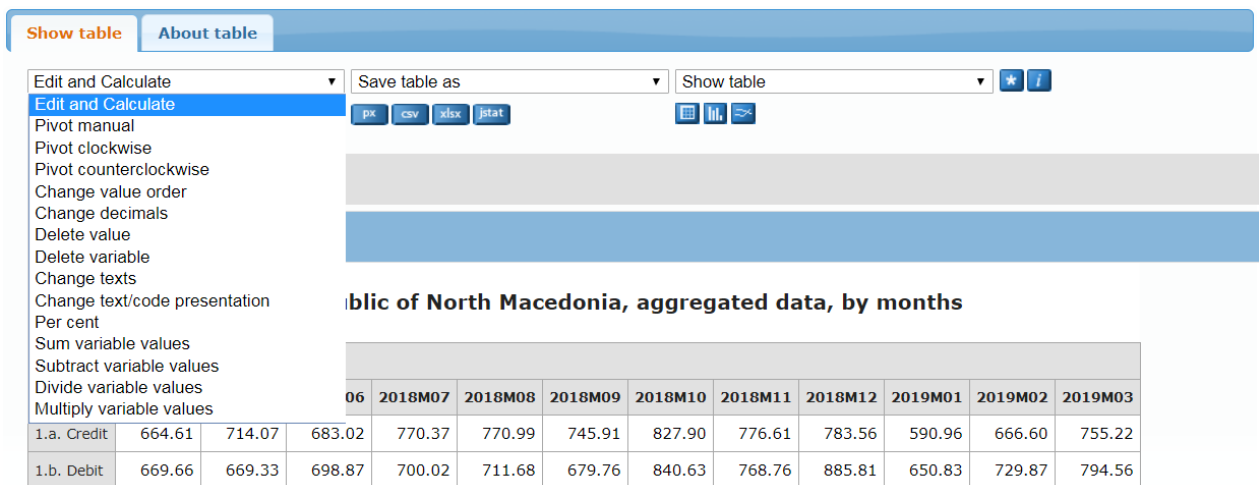
By selecting "Continue", extended options from the discussed above are available, by selecting the drop-down menus at the upper part of the "Show table" screen which displays the generated result (table or chart), as in the following image.

The shortcut buttons stand for the following:

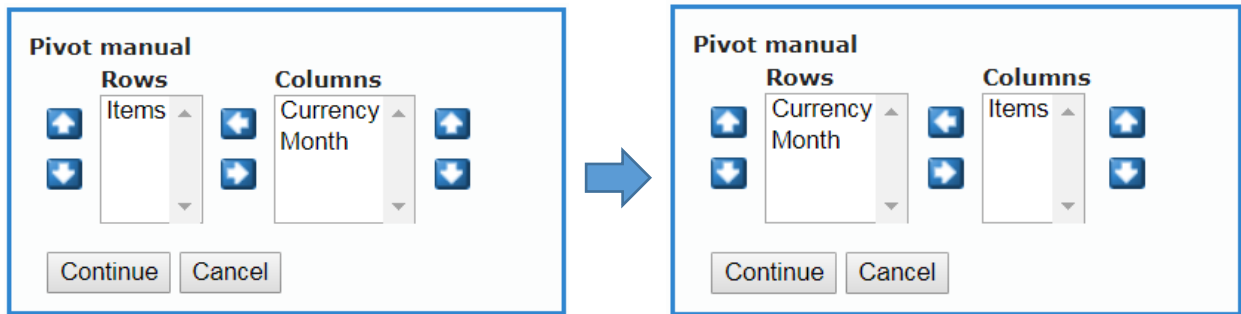


### 3.1.1. Value and order options

A range of changes in the visualization and order of the table can be made by using the first drop-down menu from the tool. Shown below is a list of the possible options for making changes, as well as practical examples for part of the options.



- Pivot manual
- Pivot clockwise
- Pivot counterclockwise



If the user chooses to manually rotate the above variables (items in columns versus currency and month in rows) the following result is expected:

**Balance of Payments, Republic of North Macedonia, aggregated data, by months**

	1.a. Credit	1.b. Debit
Millions EUR		
2018M04	664.61	669.66
2018M05	714.07	669.33
2018M06	683.02	698.87
2018M07	770.37	700.02
2018M08	770.99	711.68
2018M09	745.91	679.76
2018M10	827.90	840.63
2018M11	776.61	768.76
2018M12	783.56	885.81
2019M01	590.96	650.83
2019M02	666.60	729.87
2019M03	755.22	794.56

- Change value order

Determining the value order according to one of the three types of variable.



- Change decimals

It is possible to make a change in decimal places, where a number from 0-6 should be inputted.



### Change decimals

Write the number of decimals you wish to have and press the continue button

Number of decimals (0-6)

- Delete value
- Delete variable
- Change texts
- Change texts / code presentation
- Per cent
- Sum variable values

An example of an advanced option is making a sum of variable values from the table.

### Sum variable values

Choose values to sum

- Items  
 Currency  
 Month  
 Sum all values  Sum selected values



### Sum variable values

New value name:

If the user chooses to sum all values from the variable month for the year 2018 and enters “Total – yearly” as a name for the new variable, the following result is expected:

#### Balance of Payments, Republic of North Macedonia, aggregated data, by months

	Millions EUR												Total - yearly
	2018M04	2018M05	2018M06	2018M07	2018M08	2018M09	2018M10	2018M11	2018M12	2019M01	2019M02	2019M03	
1.a. Credit	664.61	714.07	683.02	770.37	770.99	745.91	827.90	776.61	783.56	590.96	666.60	755.22	8,749.82
1.b. Debit	669.66	669.33	698.87	700.02	711.68	679.76	840.63	768.76	885.81	650.83	729.87	794.56	8,799.77

- Subtract variable values
- Divide variable values
- Multiply variable values

### 3.1.2. Save table options

Shown in the second drop-down menu are the options for saving (downloading) the table.

The screenshot shows a software interface with a 'Save table as' dropdown menu open. The menu lists the following options:

- Save table as
- PX-file
- Excel workbook (xml)
- Excel workbook (xml) with code and text
- Tab delimited with heading
- Tab delimited without heading
- Comma delimited with heading
- Comma delimited without heading
- Space delimited with heading
- Space delimited without heading
- Semicolon delimited with heading
- Semicolon delimited without heading
- Html file (htm)
- Relational file (txt)
- Excel (xlsx)
- Excel (xlsx) with code and text column
- JSON-stat file (json)
- Html5 table (htm)
- Json file (json)

The background shows a table titled 'Balance of Payments, Repu' with columns for 'Millions EUR' and years 2018M04, 2018M05, and 2018M06. The rows are '1.a. Credit' and '1.b. Debit'. Another table titled 'Aggregated data, by months' is also visible, with columns for years 2018M10, 2018M11, 2018M12, 2019M01, 2019M02, and 2019M03.

The data can be saved in the following formats:

- PX – file
- Excel workbook (XML)
- Excel workbook (XML) with code and text
- Tab delimited with heading
- Tab delimited without heading
- Comma delimited with heading
- Comma delimited without heading
- Space delimited with heading
- Space delimited without heading
- Semicolon delimited with heading (.csv)
- Semicolon delimited without heading
- Html file (HTML)
- Relational file (.scb)
- Excel (.xlsx)
- Excel (.xlsx) with code and text column
- JSON-stat file (JSON)
- Html5 table (HTML)
- Json file (JSON)

### 3.1.3. Show table options

As already demonstrated above, the table can be shown in a range of visualization options, where more visualization changes can be made using the third drop-down menu.

The screenshot shows a data visualization interface. At the top, there are two tabs: "Show table" (selected) and "About table". Below the tabs, there are three dropdown menus: "Edit and Calculate", "Save table as", and "Show table". The "Show table" dropdown menu is open, displaying a list of visualization options. Below the dropdowns, there are several buttons: "px", "csv", "xlsx", and "jstat". There are also two plus signs with labels: "+ Table settings" and "+ Save your query". The main content area displays a table titled "Balance of Payments, Republic of North Macedonia, aggregated". The table has columns for "Millions EUR" and years from 2018M04 to 2019M03. The rows are "1.a. Credit" and "1.b. Debit".

	Millions EUR							2019M02	2019M03
	2018M04	2018M05	2018M06	2018M07	2018M08	2018M09	2018M10		
1.a. Credit	664.61	714.07	683.02	770.37	770.99	745.91	821.10	666.60	755.22
1.b. Debit	669.66	669.33	698.87	700.02	711.68	679.76	840.10	729.87	794.56

The data can be shown in the following visualizations:

- Show table
- Table – Layout 2
- Sort table
- Chart - Bar
- Chart – Bar stacked
- Chart – Bar stacked 100%
- Chart – Horizontal bar
- Chart – Horizontal bar stacked
- Chart – Horizontal bar stacked 100%
- Chart – Line
- Chart – Bar and line
- Chart – Population pyramid
- Chart – Pie
- Chart – Area
- Chart – Area stacked
- Chart – Area stacked 100%
- Chart – Point
- Chart – Radar
- Footnotes
- Information

### 3.1.4. About table

Information about the table, footnotes and contact detail can be seen when selecting the “About table” section at the top of the shown window.

The screenshot shows a window with two tabs: "Show table" and "About table". The "About table" tab is active. Below the tabs, there is a section titled "Footnotes" with a link for "Methodological Notes" and "Revision of balance of payment data". The text under "Footnotes" contains two paragraphs of detailed information regarding import data and reserve assets. Below this is an "Information" section with fields for "Contact" (email and phone), "Unit" (millions EUR, millions USD), "Creation date" (1/14/2019), "Copyright" (Yes), "Source" (National Bank of the Republic of North Macedonia), and "Matrix" (ES-001).

### 3.1.5. Table settings and save your query

By accessing “Table settings”, a choice can be made whether to show all rows in the table or to hide the rows that contain only zeros, “-“ or dots.

“Save your query” lists options for saving and updating of the saved query, as well as the query format. By selecting the “Finish” button, there appears a link which can be e-mailed to a designated source by choosing the “E-mail” button.

The screenshot shows a window with two tabs: "Show table" and "About table". Below the tabs, there are three dropdown menus: "Edit and Calculate", "Save table as", and "Show table". Below these are several icons for file operations and a "px" icon. A "Table settings" dialog box is open, showing options for "Rows with zeros": "Show all rows" (selected), "Hide rows with only zeros", "Hide rows with only zeros or '-'", "Hide rows with only dots", and "Hide rows with only zeros, '-' or dots". There are "Cancel" and "Save settings" buttons. Below the dialog box, there is a blue bar with a plus icon and the text "Save your query".

## 4. Practical examples

### 4.1. Practical example 1

What is the stock of direct investments in the mining and quarrying, and manufacturing activities in the Republic of North Macedonia for the years 2016 and 2017?

→ [Start: Choose table](#)

The example shows how to choose a table in the area of your interest.

1. Select an area of interest: [Direct investment](#);
2. Select: [Direct Investment - Stocks](#);
3. Select: [Stock of Direct Investment in Republic of North Macedonia, by activity](#);

The screenshot displays the 'Statistical Web Portal' interface. At the top, there are two logos: 'HECtat' on the left and 'NBStat' on the right, both featuring a bar chart with an upward arrow. The main title 'Statistical Web Portal' is centered. Below the title, a navigation bar shows the path: 'External Statistics'. A progress indicator below the navigation bar shows three steps: 1. Choose table, 2. Choose variable, and 3. Show table. The main content area is titled 'External Statistics' and lists various categories. Three blue circles with numbers 1, 2, and 3 are overlaid on the left side, with arrows pointing to the corresponding steps in the navigation bar. Step 1 points to the 'Direct Investment' folder. Step 2 points to the 'Direct Investment - Stocks' folder. Step 3 points to the 'Stock of Direct investments in Republic of North Macedonia, by activity' table.

External Statistics

- Balance of Payments
- International Reserves and Foreign Currency Liquidity
- International Investment Position
- Direct Investment**
  - Direct Investment - Flows
  - Direct Investment - Stocks**
    - Stock of Direct Investments in the Republic of North Macedonia
    - Stock of Direct Investments from the Republic of North Macedonia to abroad
    - Stock of total investment in the Republic of North Macedonia - structure of new, existing and other investments
    - Stock of Direct Investments in Republic of North Macedonia, by country
    - Stock of Direct investments in Republic of North Macedonia, by activity
    - Stock of Direct Investments from Republic of North Macedonia to abroad, by country
    - Stock of direct investment from Republic of North Macedonia to abroad, by activity
    - Stock of Direct Investments in Republic of North Macedonia, by value and share, by country
    - Stock of direct investment from Republic of North Macedonia to abroad, by value and share, by country
    - Stock of Direct Investments in Republic of North Macedonia, by value and share, by activity
    - Stock of Direct Investments from Republic of North Macedonia to abroad, by value and share, by activity
- Portfolio Investment
- External Debt
- Effective Exchange Rate

→ [Next step: Choose variable](#)

You need to select among the variables available in the shown lists:

1. Select from the first variable list – **Activity: MINING AND QUARRYING, MANUFACTURING;**
2. Select from the second variable list – **Currency: millions EUR;**
3. Select from the third variable list – **Year: 2016, 2017;**
4. Select from the fourth variable list – **Item: Total direct investment in the Republic of North Macedonia;**
5. Click the “Continue” button.

Stock of Direct investments in Republic of North Macedonia, by activity

Select variableAbout table

Mark your selections and choose between table on screen and file format. Marking tips  
For variables marked \* you need to select at least one value

<b>Activity *</b> <div style="display: flex; justify-content: space-between; align-items: center;"><span>✓ - + ▾</span><span></span></div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">Total 84 Selected 2</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">A0395 AGRICULTURE, FORESTRY AND FISHING B0995 MINING AND QUARRYING B0905 Extraction of crude petroleum, natural gas and mining support service activities C3395 MANUFACTURING C1205 Food products, beverages and tabaco products C1895 TOTAL textiles &amp; wood activities</div> <div style="margin-top: 5px;">Search <input style="width: 50px;" type="text"/> <span>▶</span></div> <div><input type="checkbox"/> Beginning of word</div>		
<b>Currency *</b> <div style="display: flex; justify-content: space-between; align-items: center;"><span>✓ - + ▾</span><span></span></div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">Total 3 Selected 1</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">millions EUR millions USD millions MKD</div> <div style="margin-top: 5px;">Search <input style="width: 50px;" type="text"/> <span>▶</span></div> <div><input type="checkbox"/> Beginning of word</div>	<b>Year *</b> <div style="display: flex; justify-content: space-between; align-items: center;"><span>✓ - + ▾</span><span></span></div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">Total 8 Selected 2</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">2012 2013 2014 2015 2016 2017</div> <div style="margin-top: 5px;">Search <input style="width: 50px;" type="text"/> <span>▶</span></div> <div><input type="checkbox"/> Beginning of word</div>	<b>Item *</b> <div style="display: flex; justify-content: space-between; align-items: center;"><span>✓ - + ▾</span><span></span></div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">Total 10 Selected 1</div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px;">1. Total direct investment in the Republic of North Macedonia 1.1. Total equity /1 1.1.1. Direct investor in direct investment enterprises (liabilities) 1.1.2. Reverse investment (assets) 1.1.3. Between fellow enterprises (net-liabilities) 1.2. Total debt instruments</div> <div style="margin-top: 5px;">Search <input style="width: 50px;" type="text"/> <span>▶</span></div> <div><input type="checkbox"/> Beginning of word</div>

Number of selected data cells are: 4 (maximum number allowed is 1,000,000)  
Presentation on screen is limited to 1,000 rows and 250 columns

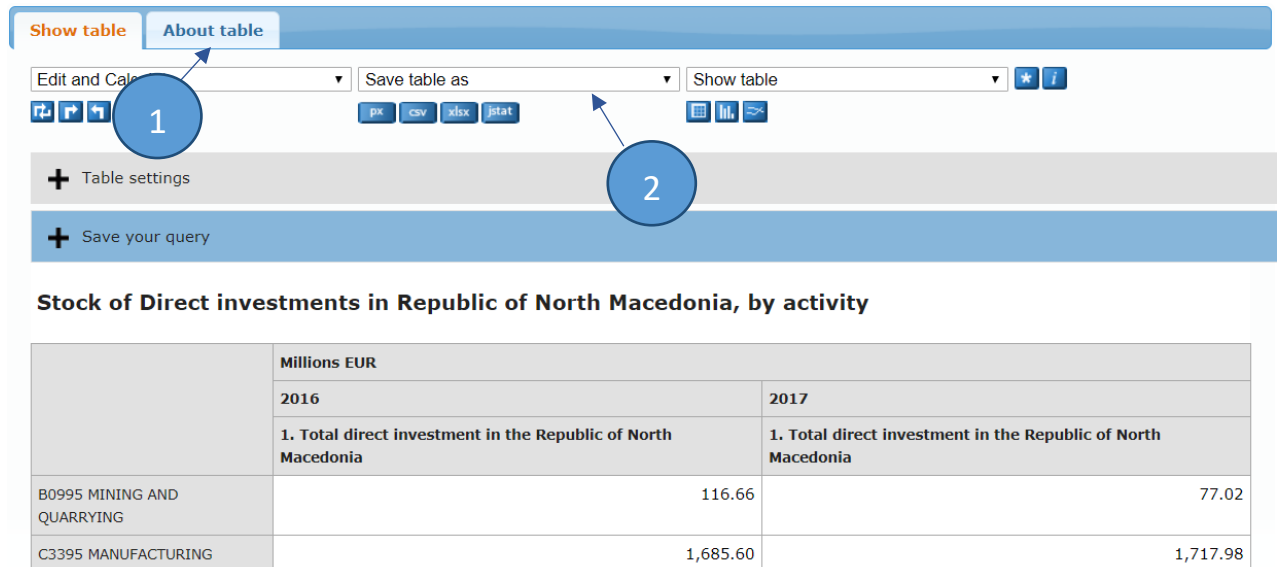
Show table ▾Continue

→ [Finally: Show the table](#)

Once the variables have been selected, the table is shown as follows:

### Stock of Direct investments in Republic of North Macedonia, by activity

1. Should you require any further information or clarification about the data, click the button: [About table](#) as shown in the picture below.
2. The resulting table can be saved in a wide range of formats: .xlsx, .csv, .px, .JSON, etc.



The screenshot shows a data interface with a blue header bar containing 'Show table' and 'About table' buttons. Below the header, there are three dropdown menus: 'Edit and Calc', 'Save table as', and 'Show table'. The 'Save table as' dropdown is open, showing options for .px, .csv, .xlsx, and .json. Below the dropdowns are icons for table settings and save query. A table titled 'Stock of Direct investments in Republic of North Macedonia, by activity' is displayed below. The table has columns for 'Millions EUR', '2016', and '2017'. The data rows are for 'B0995 MINING AND QUARRYING' and 'C3395 MANUFACTURING'.

	Millions EUR	
	2016	2017
	<b>1. Total direct investment in the Republic of North Macedonia</b>	<b>1. Total direct investment in the Republic of North Macedonia</b>
B0995 MINING AND QUARRYING	116.66	77.02
C3395 MANUFACTURING	1,685.60	1,717.98

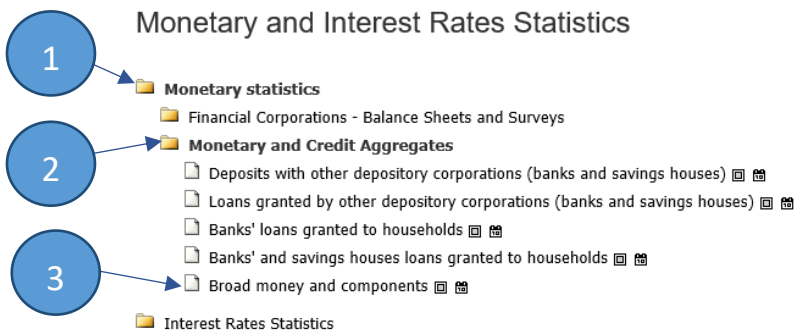
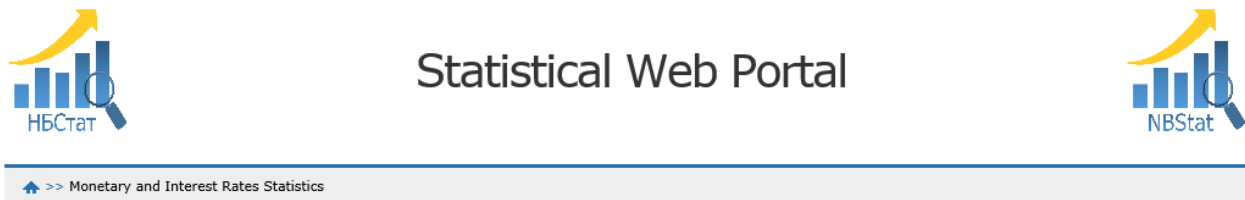
## 4.2. Practical example 2

What is the movement of broad money and its components in Republic of North Macedonia in the last 5 months?

→ [Start: Choose table](#)

The example shows how to choose a table in the area of your interest.

1. Select an area of interest: [Monetary statistics](#);
2. Select: [Monetary and Credit Aggregates](#);
3. Select: [Broad money and its components](#);





→ [Next step: Choose variable](#)

You need to select among the variables available in the shown lists:

1. Select from the first variable list – [Item: BROAD MONEY, Currency in Circulation outside Depository Corporations, Deposits in Depository Corporations](#);
2. Select from the second variable list – [Months: 2019M01, 2019M02, 2019M03, 2019M04, 2019M05](#);
3. From the drop-down menu, choose – [Chart - Line](#);
4. Click the “Continue” button.

The screenshot shows a web interface for selecting variables. At the top, there are two tabs: "Select variable" (active) and "About table". Below the tabs, a message reads: "Mark your selections and choose between table on screen and file format. Marking tips For variables marked \* you need to select at least one value".

The interface is divided into two main columns:

- Item \***: A list of variables with a search bar and a "Total 31 Selected 3" indicator. A blue circle with the number "1" points to the top of this list. The list includes "BROAD MONEY", "Currency in Circulation Outside Depository Corporations", "Deposits in Depository Corporations", "MONETARY AGGREGATES\_national definition", and "1\_Currency in Circulation Outside Depository Corporations". A dropdown menu is open, showing options like "Table - Layout 2", "Chart - Bar", "Chart - Line" (highlighted in blue), "PX-file", and various file formats. A blue circle with the number "3" points to the "Chart - Line" option.
- Month \***: A list of months with a search bar and a "Total 197 Selected 5" indicator. A blue circle with the number "2" points to the top of this list. The list includes "2018M12", "2019M01", "2019M02", "2019M03", "2019M04", and "2019M05".

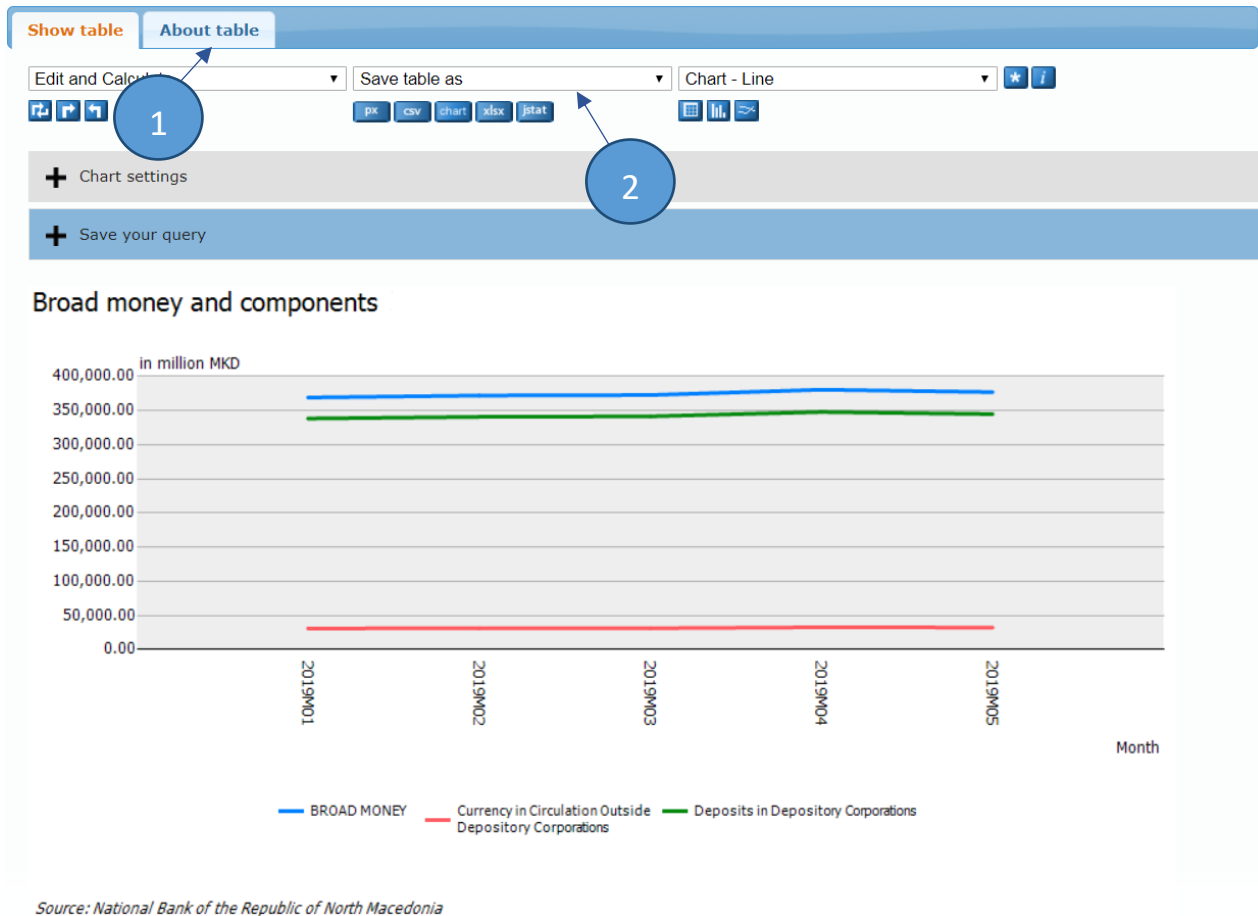
At the bottom of the interface, there is a "Show table" dropdown and a "Continue" button. A blue circle with the number "4" points to the "Continue" button.

→ [Finally: Show the table](#)

Once the variables have been selected, the table is shown:

### Broad money and components

1. Should you require any further information and clarification about the data, click the button: [About table](#) as shown in the picture below.
2. The resulting table can be saved in a wide range of formats: .png, .gif и .jpg.



Contact

E-mail: [contact.statistika@nbrm.mk](mailto:contact.statistika@nbrm.mk)

Phone: 02 3215 181 local 103 (or 110/108)