

Beginners' Manual for BOJ Time-Series Data Search Easy-to-Use On-Screen Instructions for Data Searching and Graph Drawing

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I. Data Searching

How to quickly view the latest data of major time-series statistics produced by the BOJ.

- By viewing and/or downloading tables of data in the BOJ main time-series statistics.

The BOJ main time-series statistics are located in the upper part of the BOJ Time-Series Data Search Home page screen. Links to BOJ main time-series statistics -- classified by statistics and frequency -- are provided by clicking the category of the statistics.

Click **List of main time-series statistics** to view the list of all time-series statistics.

BOJ Time-Series Data Search Home page (upper part of screen)

The screenshot shows the BOJ Time-Series Data Search Home page. The page title is "BOJ Time-Series Data Search". Below the title, there is a navigation bar with "Beginners' Manual" and "JAPANESE" links. The main content area is divided into several sections:

- BOJ's main statistical data**: This section contains a row of six buttons: "Interest Rates", "FX", "Money Stock", "Prices", "BOP", and "TANKAN". An orange box with an arrow points to this row, containing the text "Choose the category of the statistics under the BOJ's main time-series statistics."
- Key figures at a glance**: This section is currently empty.
- BOJ's main time-series statistics**: This section contains a grid of categories. The first category is "Interest Rates on Deposits and Loans", which is expanded to show three sub-items: "Basic Loan Rate [Daily] [Monthly]", "Average Interest Rates Posted at Financial Institutions by Type of Deposit [Weekly (Monday Base)]", and "Average Contracted Interest Rates on Loans and Discounts [Monthly]". An orange box with an arrow points to this list, containing the text "Choose the list of all time-series statistics." Another orange box with an arrow points to a link labeled "> List of main time-series statistics" in the top right corner of this section.
- Other categories**: "Financial Markets", "Money and Deposits", "Loans", "Balance Sheets of the Bank of Japan and Financial Institutions", "Flow of Funds", "TANKAN", "Prices", and "Balance of Payments".

At the bottom of the page, there is a "Statistical data search" section with a magnifying glass icon. A small asterisk note at the bottom states: "* 'BOJ's main time-series statistics' is updated three times on each business day at around 9:00, 12:00, and 15:00 JST. If you wish to obtain the latest data immediately after the release and before these update times, please find them through the 'search by statistics' below."

Data can be downloaded by clicking the **Download** button in the upper left-hand corner of the table. Then click the **Save** button in the **File Download** window, and specify where to save the file.

Click the icon next to each data code for a simple graph for each table.

For designing graphs to create your own customized set of time-series data, see "II. Graph Drawing" on page 19.

BOJ's Main Time-Series Statistics window (upper part of screen)

The screenshot shows the 'BOJ Time-Series Data Search' interface. At the top left, there are 'Download' and 'Back' buttons. A callout box points to the 'Download' button with the text 'Click to download data.' Another callout box points to a small icon next to the series code 'IR04'DLLR2CIBSN1' with the text 'Click to display a simple graph.' The table below contains six columns of data, with the 'Series code' row having icons next to each code.

	Average Contract Interest Rates on Loans and Discounts (Monthly)	Average Contract Interest Rates on Loans and Discounts (Monthly)	Average Contract Interest Rates on Loans and Discounts (Monthly)	Average Contract Interest Rates on Loans and Discounts (Monthly)	Average Contract Interest Rates on Loans and Discounts (Monthly)
Name of time-series	New Loans and Discounts/Short-term Loans and Discounts/Domestically Licensed Banks	New Loans and Discounts/Long-term Loans/Domestically Licensed Banks	New Loans and Discounts/Total/Domestically Licensed Banks	Outstanding Loans and Bills Discounted/Short-term Loans and Discounts/Domestically Licensed Banks	Outstanding Loans and Bills Discounted/Long-term Loans/Domestically Licensed Banks
Series code	IR04'DLLR2CIBSN2	R04'DLLR2CIBSN3	IR04'DLLR2CIBSN1	IR04'DLLR2CIBSN2	R04'DLLR2CIBSN3
Unit	Percent per annum	Percent per annum	Percent per annum	Percent per annum	Percent per annum
Start of the time-series	1993/10	1993/10	1993/10	1993/10	1993/10
End of the time-series	2017/08	2017/08	2017/08	2017/08	2017/08
Last update	2017/10/19	2017/10/19	2017/10/19	2017/10/19	2017/10/19
1993/10	3.949	4.39	4.043	4.175	5.091
1993/11	3.793	4.14	3.861	4.046	4.988
1993/12	3.611	3.828	3.661	3.903	4.802
1994/01	3.597	3.871	3.653	3.823	4.706
1994/02	3.51	3.811	3.582	3.695	4.628
1994/03	3.327	3.859	3.475	3.634	4.573
1994/04	3.482	4.04	3.611	3.602	4.551
1994/05	3.446	3.939	3.552	3.589	4.537

How to find specific time-series data.

- By using the Time-series data search on the BOJ Time-Series Data Search website.

You can retrieve time-series data of a particular statistic -- for example, Call Rates (Monthly) -- using the following procedure.

1. Search by category of statistics

(1) Choose the category of the statistics you are looking for in **Search by statistics**, and then click the link of the statistics displayed under the category and move on to the search by statistics page.

- For the list of items included in each category, go to **Statistics List**.
- For Call Rates (Monthly), choose **Financial Markets** and then click **Short-term Money Market Rates [FM02]** displayed under **Financial Markets**.

BOJ Time-Series Data Search Home page (middle part of screen)

The screenshot displays the 'Statistical data search' interface. At the top, there is a search bar labeled 'Search by statistics' and a link to 'Statistics List'. Below this, a list of categories is shown, with 'Financial Markets' selected and highlighted by a red box. Under 'Financial Markets', several statistics are listed, including 'Short-term Money Market Rates [FM02]', which is highlighted with a red dashed box and an arrow. A red callout box with the text 'Choose the category of the statistics, and then click the link to the statistics.' points to the 'Short-term Money Market Rates [FM02]' link. Other categories visible include 'Interest Rates on Deposits and Loans', 'Flow of Funds', 'Other Bank of Japan Statistics', 'TANKAN', 'Prices', 'Public Finance', 'Balance of Payments and BIS-Related Statistics', 'Others', 'Payment and Settlement', 'Money and Deposits', 'Loans', and 'Balance Sheets of the Bank of Japan and Financial Institutions'. At the bottom, there are icons for 'Relevant statistics page (in Bank of Japan's website)' and 'Notes (in Bank of Japan's website)'.

(2) The tab at the top of the search by statistics page is initially set at **Data Selection by list of statistics**. A list of items is displayed in the “**Select an item**” box.

(3) In the “**Select an item**” box, highlight the selected item and then click the **Next** button.

- If you select **Short-term Money Market Rates [FM02]** in the previous window, a list of items such as **Call Rate (Monthly)**, **Tokyo Repo Rate (Daily) (through Oct. 26, 2012)**, and **Average Yields on Newly Issued Domestic Commercial Paper (through October 2009)** appears in the box. Select **Call Rate (Monthly)**, and then click the **Next** button.

Search by statistics page (upper part of screen)

The screenshot displays the BOJ Time-Series Data Search interface. At the top, the page title is "BOJ Time-Series Data Search" with a "Beginners' Manual" link. Below the title, there are three tabs for data selection: "Data Selection by list of statistics" (selected), "Data Selection by name of series", and "Data Selection by series code (partial match search)". A "Selected items:" box shows "Short-term Money Market Rates". The main content area is titled "Select an item." and contains a list of five items. The first item, "Call Rate (Monthly)", is highlighted in light purple. An orange callout box with an arrow pointing to this item contains the text: "Select and highlight item, and then press Next. Repeat this process until the list is narrowed down to the time-series data of your search." Below the list, there is a "Next" button, which is also circled in orange. The page footer indicates "Number of items : 5."

(4) The list in the box changes. For more options, repeat the same process and then click the **Next** button to proceed with your search.

(5) Refine your search on the list of time-series data and this will take you to the final selection box where you will find "Select items. (A maximum of up to 250 series can be added.)" Once you have selected all the items, click the **Add to search condition** button.

(6) Information on the selected time-series data will be added to and saved in the **Search and output time-series** box shown at the middle of the page. Once you have selected all necessary time-series data, click the **Search** button at the bottom of the page.

Notes

- Unless specified, the output year range derives data of the past five years for yearly data and the past one year for daily data. To include data of years prior to this range or to shorten the time period, enter the starting year in the left-hand box in the **Output year range** section.

* Information on the selected time-series data code will be added only once to the **Search and output time-series** box even if the **Add to search condition** button is clicked multiple times.

Search by statistics page (upper part of screen)

BOJ Time-Series Data Search Beginners' Manual

Statistical data search

Selected Items: Short-term Money Market Rates > Call Rate (Monthly)

Select items. (A maximum of up to 250 series can be added.)

* Press both (Shift) and item to select several items.

Select all

<input checked="" type="checkbox"/>	FM02'STRECLCOON(Call Rate, Collateralized Overnight (a)/End of Month)
<input checked="" type="checkbox"/>	FM02'STRACLCOON(Call Rate, Collateralized Overnight (a)/Average(b))
<input type="checkbox"/>	FM02'STRECLUCON(Call Rate, Uncollateralized Overnight/End of Month)
<input type="checkbox"/>	FM02'STRACLUCON(Call Rate, Uncollateralized Overnight/Average)
<input type="checkbox"/>	FM02'STRECLUC1W(Call Rate, Uncollateralized 1 Week/End of Month)

Number of items : select 2 / display 12

Search by statistics page (bottom part of screen)

Search Conditions

1. Search and output time-series
 Select all

<input checked="" type="checkbox"/>	FM02'STRECLCOON(Call Rate, Collateralized Overnight (a)/End of Month)
<input checked="" type="checkbox"/>	FM02'STRACLCOON(Call Rate, Collateralized Overnight (a)/Average(b))

Number of items : search 2 / display 2
* Up to 250 time-series can be processed(Graph:up to 18 time-series)

2. Output year range
From To
Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

3. Frequency conversion
New frequency to be converted : Conversion method :

* Some figures may differ from those in other publications as data processing is conducted using digital equipment on this site.

[Quick guidance for time-series search](#) [Notices](#) [Contact](#) [Site Map](#) [Bank of Japan's website](#)
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List of time-series data selected in the upper part of the search by statistics page.

Enter the output year range. Unless specified, data for the past five years will be displayed (past one year for daily data).

Click to start search.

Select to specify frequency. Unless specified, the frequency already in the database will appear.

(7) After completing search, the selected data will appear in the **Result of search** page. To save the data, click the **Download** button on the right-hand side of the page. To look at the data without downloading them, press **Time-series data**. To download the list of time-series data codes, click the **Save selected series codes** button.

Result of search page

BOJ Time-Series Data Search Beginners' Manual

Result of search Help ?

Type of table*	Download header type	File type	Download
<ul style="list-style-type: none"> ◆ Information on time-series(MONTHLY) ◆ Time-series data(MONTHLY) 	<ul style="list-style-type: none"> <input checked="" type="radio"/> Simple header <input type="radio"/> Header <input type="radio"/> No Header 	<ul style="list-style-type: none"> <input checked="" type="radio"/> CSV <input type="radio"/> TAB 	↓ Download

* When error message "Requested file was not produced because of the upper limit of observations" is displayed, reduce the number of time-series or narrow the time range.

Click to download output data.

▶ Save selected series codes
✕ Close

> Quick guidance for time-series search > Notices > Contact > Site Map > Bank of Japan's website
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Click to save the list of time-series data codes of your search.
 If you are to use the same data codes on future visits, you can shorten the search process by using the saved list (see page12 for more information).

2. Search by keyword(s) (i.e., name of time-series data, such as the effective exchange rate)

- (1) Click **By name of series** -- shown in the middle of the BOJ Time-Series Data Search Home page screen -- and start a search for a specific data out of all data available from the website using keywords.
- You can also find data by using keywords in the **Search by statistics** section. Click the link to the statistics in this section, and then choose **Data Selection by name of series** at the middle of the Home page.

BOJ Time-Series Data Search Home page (middle part of screen)

Statistical data search

Q Search by statistics › Statistics List

+ Interest Rates on Deposits and Loans	+ Flow of Funds
+ Financial Markets	+ Other Bank of Japan Statistics
+ Payment and Settlement	+ TANKAN
+ Money and Deposits	+ Prices
+ Loans	+ Public Finance
+ Balance Sheets of the Bank of Japan and Financial Institutions	+ Balance of Payments and BIS-Related Statistics
	+ Others

: Relevant statistics page (in Bank of Japan's website) : Notes (in Bank of Japan's website)

Q Search by statistical category and name of series * Search among all time-series data

By name of series ← **Click By name of series.**

Q Search by exact series codes * Search among all time-series data

+ By exact series codes

↓ Prices, FOF, TANKAN, Balance of Payments, and BIS-Related Statistics — Flat Files Download

+ Go to Flat Files Download

(2) The data selection by name of series page window will open. Enter keyword(s) in the **Keyword in name of series** box, and then click the **Search** button.

Data Selection by name of series page (upper part of screen)

BOJ Time-Series Data Search Beginners' Manual

Statistical data search Help ?

▼ Data Selection by name of series

1.Keyword in name of series

* Several keywords should be separated by space.

Effective Exchange Rates

2.List of statistical categories

- BIS International Locational Banking Statistics in Japan/Domestic banks/Claims_All sectors/Curre
- BIS International Locational Banking Statistics in Japan/Domestic banks/Claims_Non-bank sector
- BIS International Locational Banking Statistics in Japan/Domestic banks/Claims_Non-bank sector
- BIS International Locational Banking Statistics in Japan/Domestic banks/Claims_Non-bank sector
- BIS International Locational Banking Statistics in Japan/Domestic banks/Claims_Non-bank sector

* The list of categories can be narrowed by setting a keyword and pressing the Filter button.

* Pressing Search button will find results matching the both of condition 1 AND 2.

Enter keyword(s) derived from the name of time-series data, and then click **Search**.

- (3) In the box above the **Add to search condition** button, you will see a list of time-series data that contain keyword(s) that you have entered. Highlight the specific items of the time-series data and click the **Add to search condition** button. Information on the selected time-series data will be added to and saved in the **Search and output time-series** box.

Data Selection by name of series page (middle part of screen)

[Result of search]

Select items from the results.(A maximum of up to 250 series can be added.)

* Press both (Shift) and item to select several items.

Select all

<input checked="" type="checkbox"/>	FM09'FX180110001(Nominal/Effective Exchange Rates)
<input checked="" type="checkbox"/>	FM09'FX180110002(Real/Effective Exchange Rates)
<input type="checkbox"/>	FM09'FXCP7JP((Discontinued)Nominal/Effective Exchange Rates (through January 2010))
<input type="checkbox"/>	FM09'FXCP8JP((Discontinued)Real/Effective Exchange Rates (through January 2010))

Number of items : select 2 / display 4(Shows a maximum of up to 1000 series.)

Add to search condition

Search Conditions

1. Search and output time-series

Select all

<input checked="" type="checkbox"/>	FM09'FX180110001(Nominal/Effective Exchange Rates)
<input checked="" type="checkbox"/>	FM09'FX180110002(Real/Effective Exchange Rates)

Number of items : search 2 / display 2

* Up to 250 time-series can be processed(Graph:up to 18 time-series).

Select items you want to retrieve data contents from the list above, and then click the **Add to search condition** button.

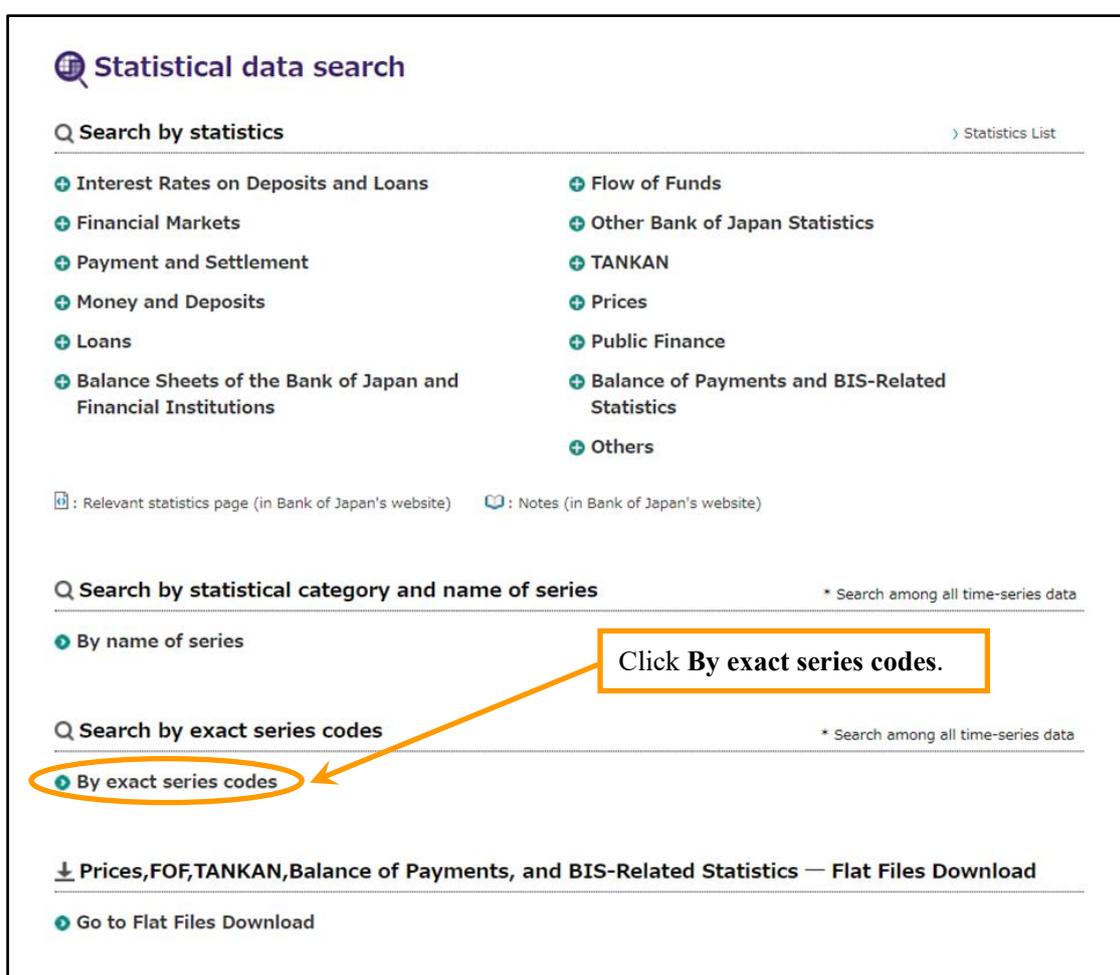
- (4) Continue as shown in pages 6-8.

3. Search by using data codes

This time-saving method is a remedy for repeating searches.

- (1) Choose **By exact series codes** at the middle of the BOJ Time-Series Data Search Home page screen to search for specific data out of all data available from the website using time-series data codes that you have already located.

BOJ Time-Series Data Search Home page (middle part of screen)



Statistical data search

Q Search by statistics [Statistics List](#)

- + Interest Rates on Deposits and Loans
- + Financial Markets
- + Payment and Settlement
- + Money and Deposits
- + Loans
- + Balance Sheets of the Bank of Japan and Financial Institutions
- + Flow of Funds
- + Other Bank of Japan Statistics
- + TANKAN
- + Prices
- + Public Finance
- + Balance of Payments and BIS-Related Statistics
- + Others

[📄](#) : Relevant statistics page (in Bank of Japan's website) [📄](#) : Notes (in Bank of Japan's website)

Q Search by statistical category and name of series * Search among all time-series data

- + By name of series

Q Search by exact series codes * Search among all time-series data

- + **By exact series codes**

↓ Prices,FOF,TANKAN,Balance of Payments, and BIS-Related Statistics — Flat Files Download

- + Go to Flat Files Download

- (2) The data selection by exact series codes page will open. Enter the data codes correctly in the **Input box for exact series codes**, and then click the **Search** button. Press Enter key for additional data codes. Data codes from a different file can be copied and pasted to the box.

Data Selection by exact series codes page (upper part of screen)

BOJ Time-Series Data Search Beginners' Manual

Statistical data search Help ?

▼ Data Selection by exact series codes

Input box for exact series codes

* For a partial match search, use Data selection by series code (partial match search) at Statistical data search.
* Up to 250 series can be specified. Use one line for each series.

FM09'FX180110001
FM09'FX180110002

Enter data codes, and then click Search.

Search

Select items.
* Press both (Shift) and item to select several items.

Select all

File Home Insert Page Layout Formulas Data Review Display Developer Add-ins

A1 FM09'FX180110001

	A	B	C	D	E	F	G	H	I	J	K
1	FM09'FX180110001	Nominal/Effective Exchange Rates									
2	FM09'FX180110002	Real/Effective Exchange Rates									
3											
4											
5											
6											
7											
8											
9											

Data codes from a different file can be copied and pasted.

Command Bar: データの個数: 2 100%

(3) The **Select items** box will show the data codes that you have entered. Highlight the specified data codes, and then click the **Add to search condition** button. Information on the selected time-series data will be added to the **Search and output time-series** box.

Data Selection by exact series codes page (middle part of screen)

The screenshot shows two panels. The top panel, titled "Select items.", contains a "Search" button and a list of items with checkboxes. The bottom panel, titled "Search Conditions", contains a list of items with checkboxes. Annotations with arrows point to the selected items in both panels and the "Add to search condition" button in the top panel.

Select items.
* Press both (Shift) and item to select several items.

- Select all
- FM09'FX180110001(Nominal/Effective Exchange Rates)
- FM09'FX180110002(Real/Effective Exchange Rates)

Number of items : select 2 / display 2

Add to search condition

Search Conditions

1. Search and output time-series

- Select all
- FM09'FX180110001(Nominal/Effective Exchange Rates)
- FM09'FX180110002(Real/Effective Exchange Rates)

Number of items : search 2 / display 2

* For search using data codes, information on the selected time-series data code can be added multiple times to the **Search and output time-series** box with the **Add to search condition** button. Please note that, once the **Add to search condition** button is clicked, the exact same data code(s) cannot be added to the **Search and output time-series** box.

(4) The procedure hereafter is the same as that shown in pages 6-8.

How to conduct an advanced search (i.e, how to find a customized set of time-series data).

- By using the name of the time-series data as keyword(s), you can locate a customized set of data on a specific industry from different categories.

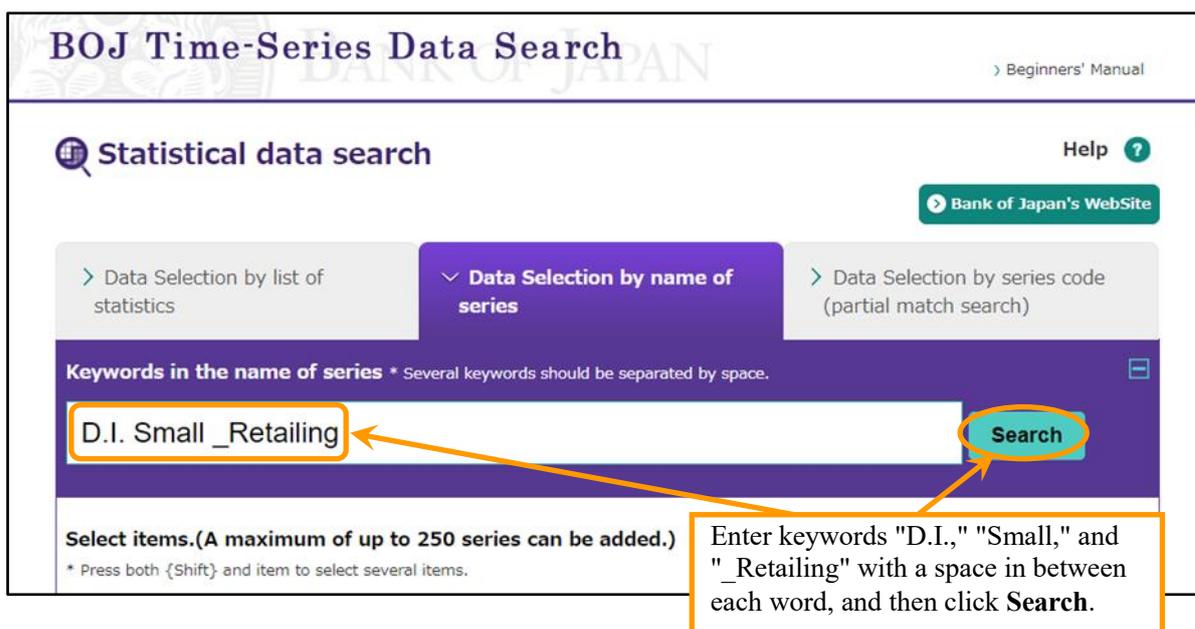
For statistics such as the TANKAN and Flow of Funds -- whose categories are organized systematically -- you can obtain a customized set of data from different categories by combining multiple keywords.

1. TANKAN

In the TANKAN, for example, the name of time-series data regarding the business conditions D.I. of small enterprises in the retailing industry is either "D.I./Business Conditions/Small Enterprises /_Retailing/Actual result" or "D.I./Business Conditions/Small Enterprises/_Retailing/Forecast." By using "D.I.," "Small Enterprises" and "Retailing" as keywords, you can find all D.I. items of "Small Enterprises" and Retailing." The search process is as follows.

- (1) On the **Search by statistics** page at the middle of the BOJ Time-Series Data Search Home page screen, choose **TANKAN**, and then press **TANKAN (CO)** displayed under **TANKAN** to search by statistics page. Then, choose **Data Selection by name of series** at the middle of the Home page.
- (2) Under **Keywords in the name of series**, enter "D.I.," "Small," and "_Retailing" in the box, and then click the **Search** button. Be sure to include a space between each keyword.

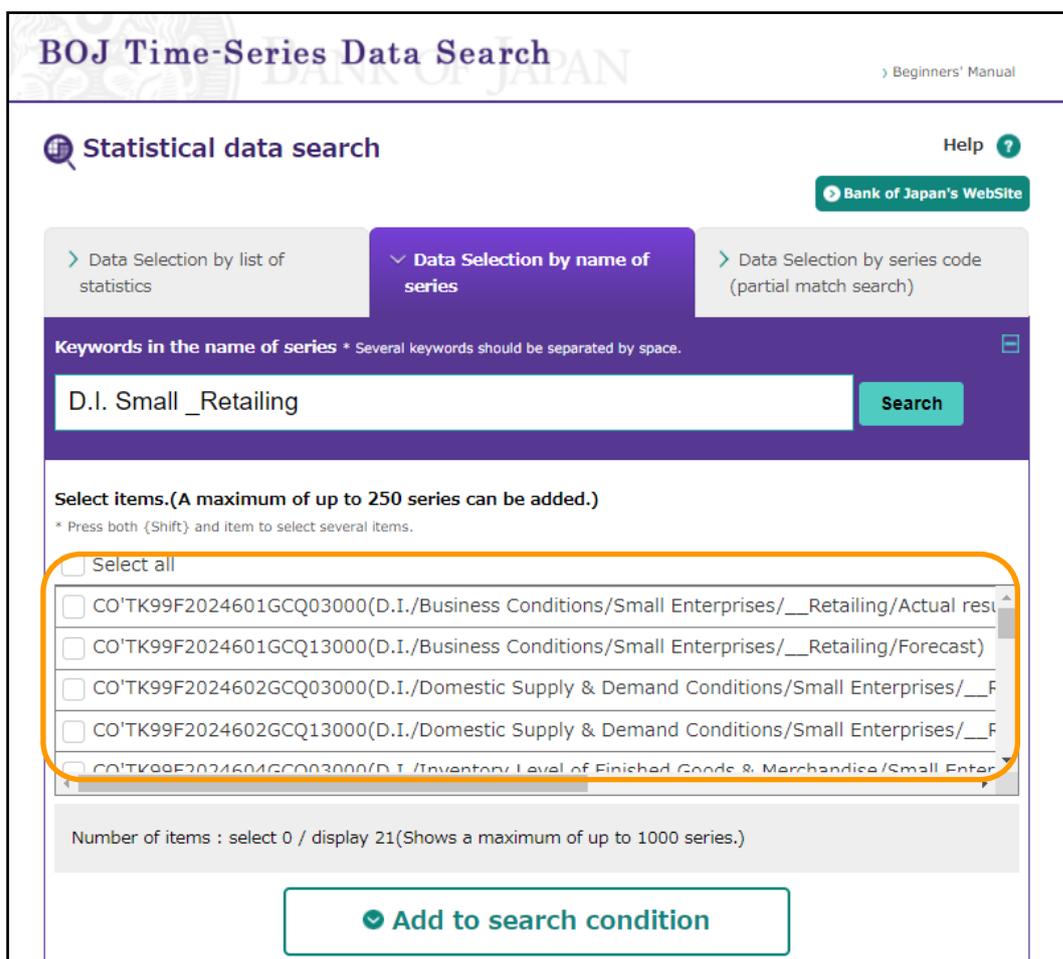
Search by statistics page (middle part of screen)



The screenshot shows the BOJ Time-Series Data Search interface. The main heading is "BOJ Time-Series Data Search" with the Bank of Japan logo. Below it, there's a "Statistical data search" section with a "Help" icon and a "Bank of Japan's WebSite" button. Three tabs are visible: "Data Selection by list of statistics", "Data Selection by name of series" (which is selected), and "Data Selection by series code (partial match search)". Under the selected tab, there's a text input field labeled "Keywords in the name of series" with a note: "* Several keywords should be separated by space." The input field contains "D.I. Small _Retailing". To the right of the input field is a "Search" button. Below the input field, there's a section titled "Select items.(A maximum of up to 250 series can be added.)" with a note: "* Press both {Shift} and item to select several items." A callout box with an orange border points to the input field and the "Search" button, containing the text: "Enter keywords 'D.I.,' 'Small,' and '_Retailing' with a space in between each word, and then click **Search**."

(3) The box above the **Add to search condition** button will show a list of time-series data that match your keyword(s). By using "D.I.," "Small" and "_Retailing" as keywords, you will see a list of time-series data that contain all D.I. items regarding small enterprises in the retailing industry, for instance, "Business Conditions" as well as "Domestic Supply & Demand Conditions," "Inventory Level of Finished Goods & Merchandise," "Production Capacity," "Employment Conditions," "Financial Position," "Lending Attitude," "Change in Interest Rate on Loans," "Change in Output Prices," "Change in Input Prices," etc.

Search by statistics page (middle part of screen)



(4) Highlight all the time-series data in the box, and then click the **Add to search condition** button. Continue on with the same procedure shown in pages 6-8.

In the TANKAN, you can also find customized sets of data on a specific industry from categories other than the above D.I. items, including Annual Projections (including Sales, Current Profits, and others). An

example of the name of the time-series data regarding sales of small enterprises in the retailing industry (year-to-year percent change/half year) is "Sales/Year-to-year Percent Change/Half Year/Small Enterprises/_Retailing/Actual result." The keywords for searching such time-series data are "Year-to-year Percent Change/Half Year," "Small," and "_Retailing."

2. Flow of Funds

The above search method can also be applied to the Flow of Funds statistics. On the **Search by statistics** page at the middle of the BOJ Time-Series Data Search Home page screen, choose **Flow of Funds (FF)** and continue search. To find the list of time-series data regarding the amount outstanding of financial assets held by individual entities, choose **Data Selection by name of series** using "Assets/Total" and "Stock" as keywords.

How to download data packages of price statistics, Flow of Funds, TANKAN, Balance of Payments, and BIS-Related Statistics.

- By downloading flat files.

From **Prices, FOF, TANKAN, Balance of Payments, and BIS-Related Statistics -- Flat Files Download** at the bottom part of the BOJ Time-Series Data Search Home page screen, choose **Go to Flat Files Download** and move on to the **Prices, FOF, TANKAN, Balance of Payments, and BIS-Related Statistics -- Flat Files Download** page. Then choose the file name to download the file.

Prices, FOF, TANKAN, Balance of Payments, and BIS-Related Statistics -- Flat Files Download page

BOJ Time-Series Data Search Beginners' Manual

Prices, FOF, TANKAN, Balance of Payments, and BIS-Related Statistics -- Flat Files Download

Single-click the right mouse button on a link of statistics, and a menu appear. From this menu, select the command that will save the file (e.g., "Save target as . . .") and then specify the directory into which you want to save the file (e.g., C:¥Temp, A:¥).

Prices Data List [XLSX 257KB]

Statistics

- [Corporate Goods Price Index \(CGPI\) \[ZIP 271KB\]](#)
- [Producer Price Index using chain-weighted index formula \[ZIP 72KB\]](#)
- [Services Producer Price Index \(SPPI\) \[ZIP 39KB\]](#)
- [Wholesale Services Price Index, and Research and development Services Price Index \[ZIP 2KB\]](#)

Flow of Funds Specification > Data List [XLS 5MB]

Statistics (* 1)

- [Flow of Funds \[ZIP 6MB\]\(* 2\)](#)
- [Flow of Funds \(with name of time-series, etc.\) \[ZIP 3MB\]](#)

(Notes)

1. We provide the Flat Files released in the past. Please send us an e-mail (post.rsd5@boj.or.jp) for your request.
2. The data volume in "fof.zip" Flat Files exceeds the maximum number of rows in Microsoft Excel. Please use database software.

Click to download data.

Click the **Save** button in the **File Download** window, and specify where to save the file.

II. Graph Drawing

How to view and/or draw graphs of statistical data produced by the BOJ.

1. View and use graphs of "Key figures at a glance"

To view graphs of the latest data, click icons such as **Interest Rates**, **FX**, or **Money Stock** under **Key figures at a glance** at the top of the BOJ Time-Series Data Search Home page screen.

For example, click the **BOP** icon to view a graph image of the Balance of Payments.

BOJ Time-Series Data Search Home page (upper part of screen)

The screenshot shows the BOJ Time-Series Data Search Home page. At the top, there is a header with the BOJ logo and the text "BOJ Time-Series Data Search". Below this, there is a section titled "BOJ's main statistical data" with a sub-section "Key figures at a glance". This section contains a row of six icons: Interest Rates, FX, Money Stock, Prices, BOP, and TANKAN. The BOP icon is circled in orange, and an orange arrow points from a text box below to it. The text box contains the text "Click to view graph image." Below the "Key figures at a glance" section, there is a section titled "BOJ's main time-series statistics" with a list of various statistics including Interest Rates on Deposits and Loans, Financial Markets, Money and Deposits, Loans, Balance Sheets of the Bank of Japan and Financial Institutions, Flow of Funds, TANKAN, Prices, and Balance of Payments. At the bottom, there is a search bar labeled "Statistical data search" and "Search by statistics".

BOJ Time-Series Data Search

BOJ's main statistical data

Key figures at a glance

Interest Rates FX Money Stock Prices BOP TANKAN

BOJ's main time-series statistics

Interest Rates on Deposits and Loans Financial Markets Money and Deposits Loans

Balance Sheets of the Bank of Japan and Financial Institutions Flow of Funds TANKAN Prices Balance of Payments

* "BOJ's main time-series statistics" is updated three times on each business day at around 9:00, 12:00, and 15:00 JST. If you wish to obtain the latest data immediately after the release and before these update times, please find them through the "search by statistics" below.

Click to view graph image.

Statistical data search

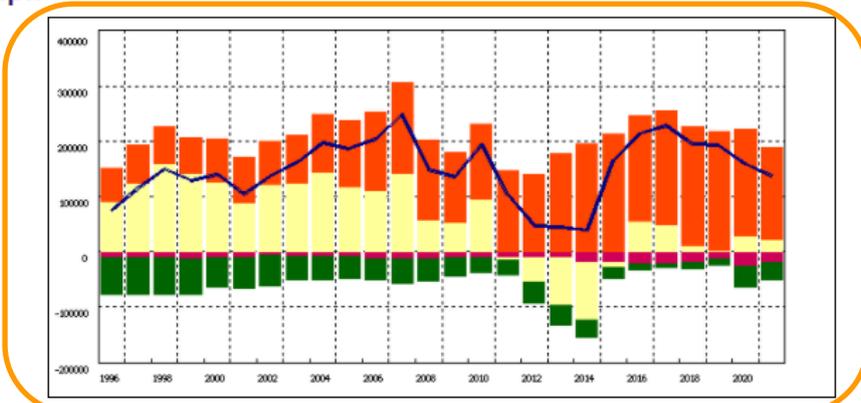
Search by statistics

Graph page (upper part of screen)

BOJ Time-Series Data Search

Beginners' Manual

Graph



* To download the data table, click "View data" below.

Basic Settings

Output year range : From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

New frequency to be converted : Conversion method :

Recession bars Stacked bar Reverse scale : left Reverse scale : right

→ To redraw this graph, see page 28.

→ To print this graph, see page 49.

→ To check information and data regarding this graph, see page 52.

2. Draw graphs of your customized set of time-series data

You can draw graphs using any time-series data from the BOJ Time-Series Data Search website.

This can be done by using either of the following two ways: (i) select a list of time-series data, and then click to display a default graph image from the search by statistics page or (ii) search further on for selected time-series data and refine your search on the data before displaying a graph image.

- The following explanation is for data search by statistics. For ways to select a list of time-series data, see "How to find specific time-series data" on page 4.

A. Display a default graph image from the search by statistics page

(1) Choose the statistics you are looking for in the **Search by statistics** section.

BOJ Time-Series Data Search Home page (middle part of screen)

BOJ's main time-series statistics > List of main time-series statistics

- + Interest Rates on Deposits and Loans
- + Financial Markets
- + Money and Deposits
- + Loans
- + Balance Sheets of the Bank of Japan and Financial Institutions
- + Flow of Funds
- + TANKAN
- + Prices
- + Balance of Payments

* "BOJ's main time-series statistics" is updated three times on each business day at around 9:00, 12:00, and 15:00 JST. If you wish to obtain the latest data immediately after the release and before these update times, please find them through the "search by statistics" below.

Statistical data search

Search by statistics > Statistics List

- + Interest Rates on Deposits and Loans
- + Financial Markets
- + Payment and Settlement
- + Money and Deposits
- + Loans
- + Balance Sheets of the Bank of Japan and Financial Institutions
- + Flow of Funds
- + Other Bank of Japan Statistics
- + TANKAN
- + Prices
- + Public Finance
- Balance of Payments and BIS-Related Statistics
 - > Balance of Payments[BP01]
 - > BIS International Locational Banking Statistics and International Consolidated Banking Statistics in Japan[BIS] (Explanation of series code)
 - > Regular Derivatives Market Statistics in Japan[DER]
- + Others

Choose the statistics.

For example, click **Balance of Payments [BP01]** to draw graph.

(2) In the search by statistics page, set the conditions for the time-series data for your graph.

- Unless specified, the frequency of the graph will be the same as that of the time-series data already in the database. In the case where the time-series data you choose differ in frequency, make sure to use the same frequency for all time-series data.

(3) Click the **Graph** button.

Search by statistics page (bottom part of screen)

The screenshot shows the 'Search Conditions' section of the Bank of Japan's website. It includes a list of time-series data items, an 'Output year range' section with input fields for 'From' (2015) and 'To' (2021), and a 'Frequency conversion' section with dropdown menus. At the bottom, there are buttons for 'Search', 'Graph', and 'Clear'. Annotations with arrows point to these elements, providing instructions for each step.

1) Confirm the list of names of the time-series data of your search.

2) Enter year range.

3) Specify frequency.

4) Click **Graph.**

Add to search condition

Search Conditions

1. Search and output time-series

Select all

- BP01'BPBP6JYNCB(Current account/Net balance)
- BP01'BPBP6JYNTB(Goods/Net balance)
- BP01'BPBP6JYNPIN(Primary income/Net balance)

Number of items : search 3 / display 3

* Up to 250 time-series can be processed(Graph:up to 18 time-series).

2. Output year range

From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

3. Frequency conversion

New frequency to be converted : Conversion method :

* Some figures may differ from those in other publications as data processing is conducted using digital equipment on this site.

[Quick guidance for time-series search](#) [Notices](#) [Contact](#) [Site Map](#) [Bank of Japan's website](#)

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(4) Graphs of selected time-series data will be displayed in a preformatted style.

Graph page (upper part of screen; displaying three line graphs)

BOJ Time-Series Data Search › Beginners' Manual

Graph

* To download the data table, click "View data" below.

Basic Settings

Output year range : From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

New frequency to be converted : Conversion method :

Recession bars Stacked bar Reverse scale : left Reverse scale : right

→ To redraw this graph, see page 28.

B. Display a graph image after selecting data

- (1) Click the link to the statistic you are looking for in the **Search by statistics** section and go to the search by statistics page.
- (2) In the search by statistics page, set the conditions for the time-series data for your graph.
 - Unless specified, the frequency of the graph will be the same as that of the time-series data already in the database. In the case where the time-series data you choose differ in frequency, make sure to use the same frequency for all time-series data.
- (3) Click the **Search** button.

Search by statistics page (bottom part of screen)

Add to search condition

Search Conditions

1. Search and output time-series

Select all

<input checked="" type="checkbox"/> BP01'BPBP6JYN CB(Current account/Net balance)
<input checked="" type="checkbox"/> BP01'BPBP6JYN TB(Goods/Net balance)
<input checked="" type="checkbox"/> BP01'BPBP6JYN PIN(Primary income/Net balance)

Number of items : search 3 / display 3

* Up to 250 time-series can be processed(Graph:up to 18 time-series).

2. Output year range

From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

3. Frequency conversion

New frequency to be converted : Conversion method :

* Some figures may differ from those in other publications as data processing is conducted using digital equipment on this site.

Search **Graph** **Clear**

1) Confirm the list of names of the time-series data you are looking for.

2) Enter year range.

3) Specify frequency.

4) Click **Search**.

- (4) In the **Result of search** window, choose **Information on time-series** to check information on the selected time-series data or **Time-series data** to check the selected time-series data. After specifying data, click the **Graph** button.

Result of search page

BOJ Time-Series Data Search Beginners' Manual

Result of search Help ?

Type of table*	Download header type	File type	Download
<ul style="list-style-type: none"><input checked="" type="radio"/> Information on time-series(MONTHLY)<input checked="" type="radio"/> Time-series data(MONTHLY)	<ul style="list-style-type: none"><input checked="" type="radio"/> Simple header<input type="radio"/> Header<input type="radio"/> No Header	<ul style="list-style-type: none"><input checked="" type="radio"/> CSV<input type="radio"/> TAB	Download

* When error message "Requested file was not produced because of the upper limit of observations" is displayed, reduce the number of time-series or narrow the time range.

[Save selected series codes](#) [Close](#)

[Click either link.](#)

[Quick guidance for time-series search](#) [Notices](#) [Contact](#) [Site Map](#) [Bank of Japan's website](#)

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Information on time-series data page (upper part of screen)

Information on time-series data

Time-series data **Graph** Back Help

* To show time-series as graph, click on the corresponding checkbox(up to 18 time-series).

<input checked="" type="checkbox"/>	Series code	BP01'BPBP6JYNCB
	Name of time-series	Current account/Net balance
	Statistical category	Balance of Payments (Data Based on the BPM6)
	Frequency	MONTHLY
	Conversion method	SUMMED
	Last update	2021/11/09
	Unit	100 million Yen
	Start of the time-series	1996/01
	End of the time-series	2021/09
	Notes	

Time-series data page (upper part of screen)

BOJ Time-Series Data Search

Time-series data

Information on time-series data **Graph** Back Help

* To show time-series as graph, click on the corresponding checkbox(up to 18 time-series).

	<input checked="" type="checkbox"/> BP01'BPBP6JYNCB Current account/Net balance	<input checked="" type="checkbox"/> BP01'BPBP6JYNTB Goods/Net balance	<input checked="" type="checkbox"/> BP01'BPBP6JYNPIN Primary income/Net balance
2015/01	929.66535866	-8833.2123078	14315.17804415
2015/02	14660.06336511	-1317.03908855	18802.2450386
2015/03	27519.26268973	6477.92366804	23196.87287484
2015/04	13717.85960308	-1494.94421331	22665.36337686
2015/05	18813.68940562	-564.05885471	20795.27386665
2015/06	6587.33651824	1006.6339384	7865.37341557
2015/07	18482.78059089	-1235.2497891	23157.79287201

These two pages can be switched by clicking either the **Time-series data** button or **Information on time-series data** button.

(5) Graphs of the selected time-series data will be displayed in a preformatted style.

Graph page (upper part of screen; displaying three line graphs)

BOJ Time-Series Data Search

> Beginners' Manual

Graph

* To download the data table, click "View data" below.

Basic Settings

Output year range : From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

New frequency to be converted : Conversion method :

Recession bars Stacked bar Reverse scale : left Reverse scale : right

3. Redraw graphs

You can redraw graphs illustrated in **Key figures at a glance** as shown on page 19, or for your customized set of time-series data as shown on page 21.

A. Change type of graph

To change the type of graph, go to **Basic settings** and/or **Time-series settings**.

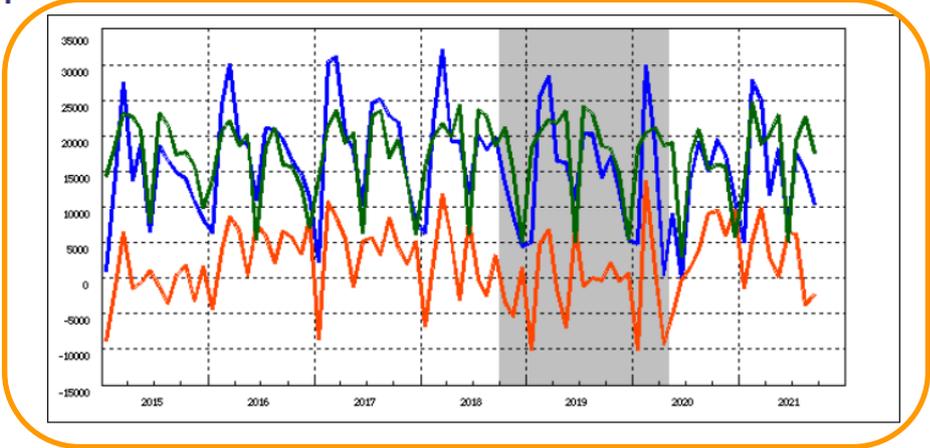
The example below shows how to change "three line graphs" to "one line graph and two bar graphs."

Graph page (upper part of screen; displaying three line graphs)

BOJ Time-Series Data Search

> Beginners' Manual

Graph



* To download the data table, click "View data" below.

Basic Settings

Output year range : From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

New frequency to be converted : Conversion method :

Recession bars Stacked bar Reverse scale : left Reverse scale : right

(1) In the **Time-series settings** section, change the **Graph type** of the two selected items, **Goods/Net balance** and **Primary income/Net balance**, from **Line** to **Bar** from the drop-down menu. After making the change, click the **Redraw** button.

Graph page (bottom part of screen)

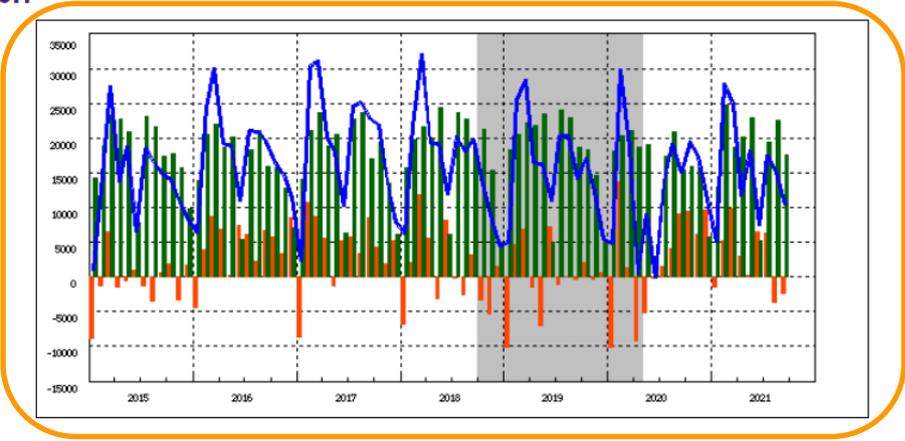
The screenshot displays the bottom part of a graph configuration interface. It features two series configuration panels. The first panel, titled "Goods/Net balance", has a "Graph type" dropdown set to "Bar", a "Scale" dropdown set to "Left", and a "Color" selector showing a red square. The second panel, titled "Primary income/Net balance", has a "Graph type" dropdown set to "Line", a "Scale" dropdown set to "Left", a "Color" selector showing a green square, a "Line style" dropdown set to "Solid", a "Line width" dropdown set to "Normal", and a "Mark type" dropdown set to "-----". A callout box with an orange border and arrow points to the "Line" dropdown in the second panel, containing the text "Change settings using the drop-down menu." Below the series panels is a dark purple bar with four buttons: "Redraw", "Add", "View data", and "Print". The "Redraw" button is circled in orange, and a callout box with an orange border and arrow points to it, containing the text "Click Redraw." Below the buttons is a checkbox labeled "Print graph settings" which is checked. At the bottom of the page, there is a footer with navigation links: "Quick guidance for time-series search", "Notices", "Contact", "Site Map", and "Bank of Japan's website". The copyright notice "Copyright Bank of Japan All Rights Reserved." is also present.

(2) The two line graphs will be changed into two bar graphs.

Graph page (upper part of screen; displaying one line graph and two bar graphs)

BOJ Time-Series Data Search Beginners' Manual

Graph



* To download the data table, click "View data" below.

Basic Settings

Output year range : From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

New frequency to be converted : Conversion method :

Recession bars Stacked bar Reverse scale : left Reverse scale : right

- For bar graphs, scales are automatically set with numbers on the left vertical axis. Bar graphs are displayed from left to right, starting from top to bottom in the **Time-series settings** section.

The next example shows how to change from "one line graph and two bar graphs" to "one line graph and one stacked bar graph."

(1) Select the **Stacked bar** check box in the **Basic settings** section.

- You can choose up to eight time-series data to draw stacked bar graphs.

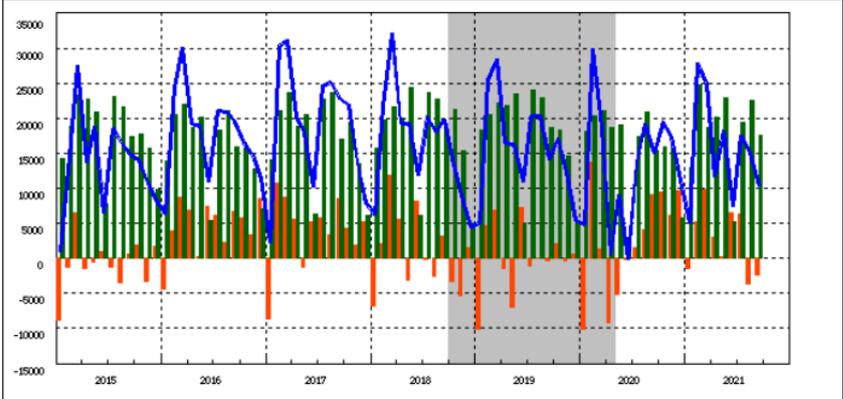
(2) Click the **Redraw** button.

Graph page (upper part of screen; displaying one line graph and two bar graphs)

BOJ Time-Series Data Search

> Beginners' Manual

Graph



* To download the data table, click "View data" below.

Basic Settings

1) Select check box.

Output year range : From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

New frequency to be converted : Conversion method :

Recession bars **Stacked bar** Reverse scale : left Reverse scale : right

Graph page (bottom part of screen)

The screenshot shows the bottom part of the BOJ Time-Series Data Search interface. At the top, the title is "Primary income/Net balance" with a subtitle "[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]". There is a "Remove" button and a chevron icon. Below this, there are settings for "Graph type" (set to "Bar"), "Scale" (set to "Left"), and "Color" (set to a dark green square). A "Difference" dropdown menu is also present. A callout box with an orange border and arrow points to the "Redraw" button, with the text "2) Click Redraw." inside. Below the settings are buttons for "Redraw", "Add", "View data", and "Print". A checkbox for "Print graph settings" is checked. At the bottom, there are navigation links: "Quick guidance for time-series search", "Notices", "Contact", "Site Map", and "Bank of Japan's website". The footer contains the text "Copyright Bank of Japan All Rights Reserved."

(3) The two bar graphs will be combined and changed into a stacked bar graph, stacked from bottom to top in the order of time-series data listed in the **Time-series settings** section.

Graph page (upper part of screen; displaying one line graph and one stacked bar graph)

The screenshot shows the upper part of the BOJ Time-Series Data Search interface. The title is "BOJ Time-Series Data Search" with the BOJ logo and "Beginners' Manual" link. Below the title is a "Graph" section with a grid icon. The main graph area displays a combined line and stacked bar chart from 2015 to 2021. The y-axis ranges from -15000 to 35000. The x-axis shows years from 2015 to 2021. The chart features a blue line graph overlaid on a stacked bar chart with green and orange bars. A callout box with an orange border highlights the entire graph area. Below the graph, there is a note: "* To download the data table, click 'View data' below." At the bottom, there is a "Basic Settings" section with a chevron icon.

B. Change frequency of graph

To change the frequency of your graph, go to the **Basic settings** section.

- (1) From the drop-down menu for **New frequency to be converted**, select a new frequency.
- (2) Click the **Redraw** button.

Graph page (upper part of screen; displaying monthly data)

The screenshot displays the BOJ Time-Series Data Search interface. At the top, the title "BOJ Time-Series Data Search" is visible, along with a "Beginners' Manual" link. Below the title, there is a "Graph" section showing a time-series chart from 2015 to 2021. The chart features a blue line and green bars, with a shaded area indicating recession periods. Below the graph, a note states: "* To download the data table, click 'View data' below."

The "Basic Settings" section is highlighted with a purple header. It includes the following fields and options:

- Output year range : From To
- Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).
- New frequency to be converted : (dropdown menu)
- Conversion method : (dropdown menu)
- Recession bars Stacked Reverse scale : right

The "Time-series settings" section is also visible, with a purple header. It includes the following fields and options:

- Current account/Net balance
- [Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]
- Graph type : (dropdown menu)
- Scale : (dropdown menu)
- Color : (color picker)

An orange callout box with the text "1) Select frequency from the drop-down menu." points to the "New frequency to be converted" dropdown menu, which is open and shows the following options: Calendar year (highlighted), Fiscal year, Half year(Calendar year base), Half year(Fiscal year base), Quarterly, and Monthly.

Graph page (bottom part of screen)

Primary income/Net balance Remove

[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Graph type : Bar Scale : Left Color : ■

Difference : -----

2) Click Redraw.

Redraw Add View data Print

Print graph settings

[Quick guidance for time-series search](#) [Notices](#) [Contact](#) [Site Map](#) [Bank of Japan's website](#)

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(3) A graph with a new frequency will be displayed. Here, the frequency is changed from **Monthly** to **Yearly (calendar year)**.

Graph page (upper part of screen; switch to calendar year data)

BOJ Time-Series Data Search Beginners' Manual

Graph

300000
250000
200000
150000
100000
50000
0
-50000

2015 2016 2017 2018 2019 2020 2021

* To download the data table, click "View data" below.

Basic Settings

C. Add new time-series data

You can add new time-series data to your graph by selecting items from all statistics available on the BOJ Time-Series Data Search website.

(1) In the **Graph** page, click the **Add** button.

Graph page (bottom part of screen)

The screenshot displays the bottom portion of the BOJ Time-Series Data Search website's graph interface. It features two data series configuration panels and a control bar.

Global Settings:

- Line style : Solid
- Line width : Normal
- Mark type : -----
- Difference : -----

Goods/Net balance [Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

- Graph type : Bar
- Scale : Left
- Color : Red
- Difference : -----

Primary income/Net balance [Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

- Graph type : Bar
- Scale : Left
- Color : Green
- Difference : -----

Control Bar:

- Buttons: Redraw, **Add** (highlighted with an orange circle), View data, Print
- Checkbox: Print graph settings
- Callout box: Click to start. (with an arrow pointing to the 'Add' button)

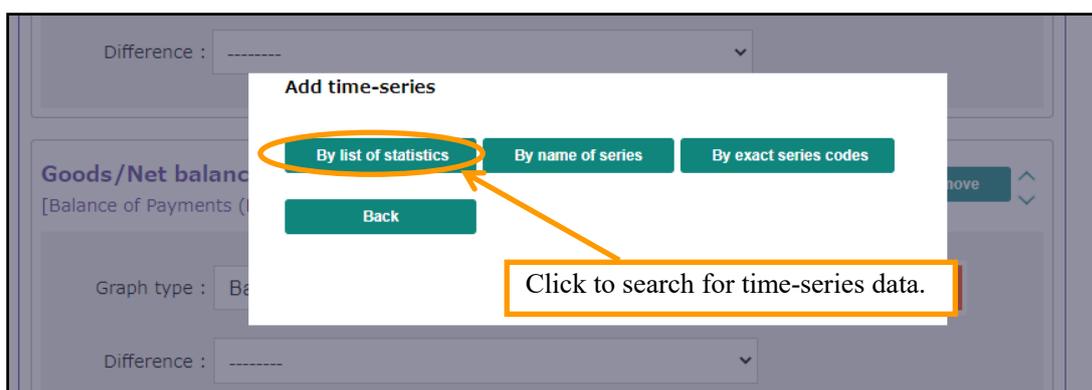
Footer:

- Navigation: > Quick guidance for time-series search > Notices > Contact > Site Map > Bank of Japan's website
- Copyright: Copyright Bank of Japan All Rights Reserved.

(2) The **Add time-series** window will open. Choose the search method for the additional time-series data.

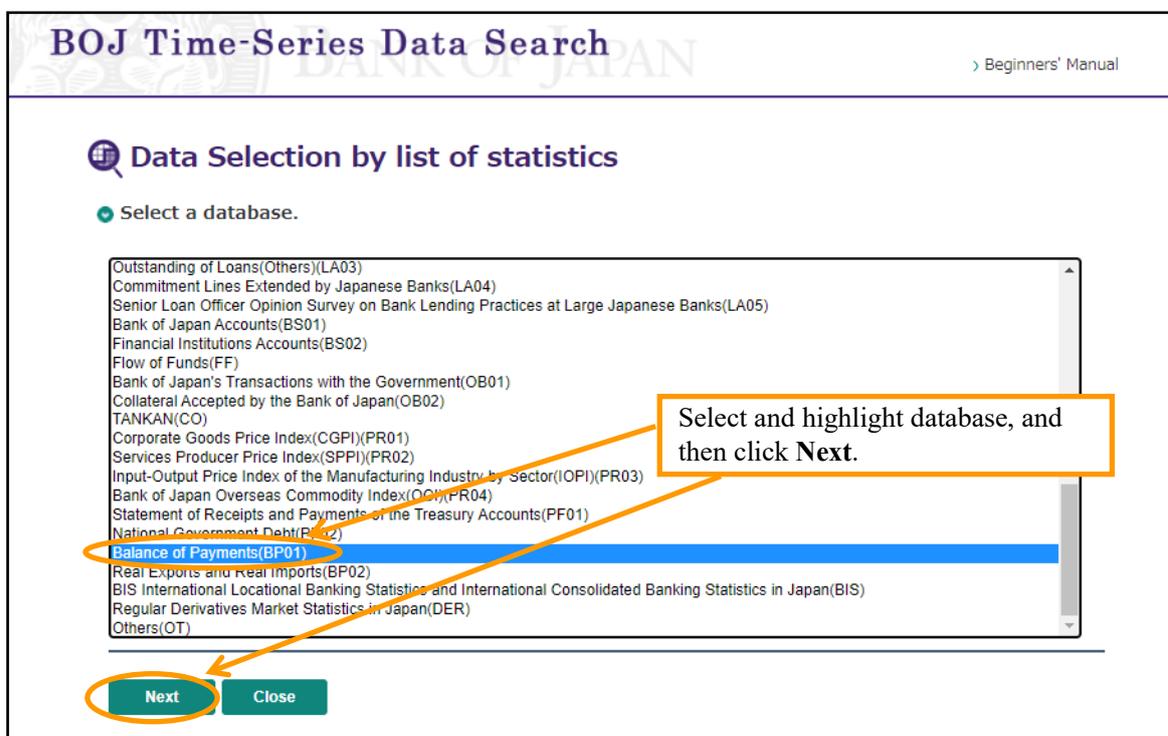
- Time-series data can be searched by: list of statistics, name of series, and exact series codes. The explanation below employs the search by list of statistics method.

Add time-series window



(3) In the **Data Selection by list of statistics** window, select and highlight the database -- that includes the time series you are looking for -- and then click the **Next** button.

Data Selection by list of statistics window (graph)



- (4) Select and highlight the item in the time-series data, and then click the **Add** button. Once information on the selected item is transferred to the **Graph** page, a message will tell you that the data transfer was successful.
- Differences in frequencies of the newly added time-series data and the time-series data already included in the **Graph** page will be automatically converted to the longest frequency.

Data Selection by list of statistics window (graph)

Select and highlight the item, and then click **Add**.

Click to close the **Data Selection by list of statistics** window, and then return to the **Graph** page.

Click to return to the **Data Selection by list of statistics** window, and then add more time-series data.

(5) In the **Graph** page, the default newly added time-series data will appear as line graphs.

Graph page (upper part of screen)

BOJ Time-Series Data Search

Beginners' Manual

Graph

* To download the data table, click "View data" below.

Basic Settings

Output year range : From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

New frequency to be converted : Conversion method :

Recession bars
 Stacked bar
 Reverse scale : left
 Reverse scale : right

Time-series settings

Current account/Net balance Remove ^
v

[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Graph type :

Scale :

Color :

(6) Confirm information on the newly added time-series data listed at the bottom of the **Time-series settings** section.

Graph page (bottom part of screen)

The screenshot displays a configuration interface for three time-series data series. Each series is represented by a card with a title, subtitle, and a set of settings. The settings include graph type, scale, color, line style, line width, mark type, and difference. A 'Remove' button is located in the top right corner of each card. At the bottom of the interface, there are four buttons: 'Redraw', 'Add', 'View data', and 'Print'. Below these buttons is a checkbox labeled 'Print graph settings' which is currently checked.

Services/Net balance [Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Graph type : Line Scale : Left Color : [Purple]

Line style : Solid Line width : Normal Mark type : [Line]

Difference : [Dashed]

Secondary income /Net balance [Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Graph type : Line Scale : Left Color : [Cyan]

Line style : Solid Line width : Normal Mark type : [Line]

Difference : [Dashed]

Capital account/Net balance [Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Graph type : Line Scale : Left Color : [Magenta]

Line style : Solid Line width : Normal Mark type : [Line]

Difference : [Dashed]

Redraw Add View data Print

Print graph settings

- (7) To combine two of the three newly added time-series data -- currently shown in two separate line graphs -- into a stacked bar graph, change the **Graph type** from **Line** to **Bar** using the drop-down menu. Make sure that the **Stacked bar** check box in the **Basic settings** section is selected.

Graph page (middle part of screen)

Basic Settings

Output year range : From To Select and check box.

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

New frequency to be converted : Conversion method :

Recession bars Stacked bar Reverse scale : left Reverse scale : right

Time-series settings

Graph page (middle part of screen)

Services/Net balance Remove ^

[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Graph type : Bar Scale : Color :

Difference :

Secondary income /Net balance Remove ^

[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Graph type : Bar Scale : Color :

Difference :

Capital account/Net balance Remove ^

[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Graph type : Scale : Color :

Change using the drop-down menu.

(8) After changing the type of graph, click the **Redraw** button.

Graph page (bottom part of screen)

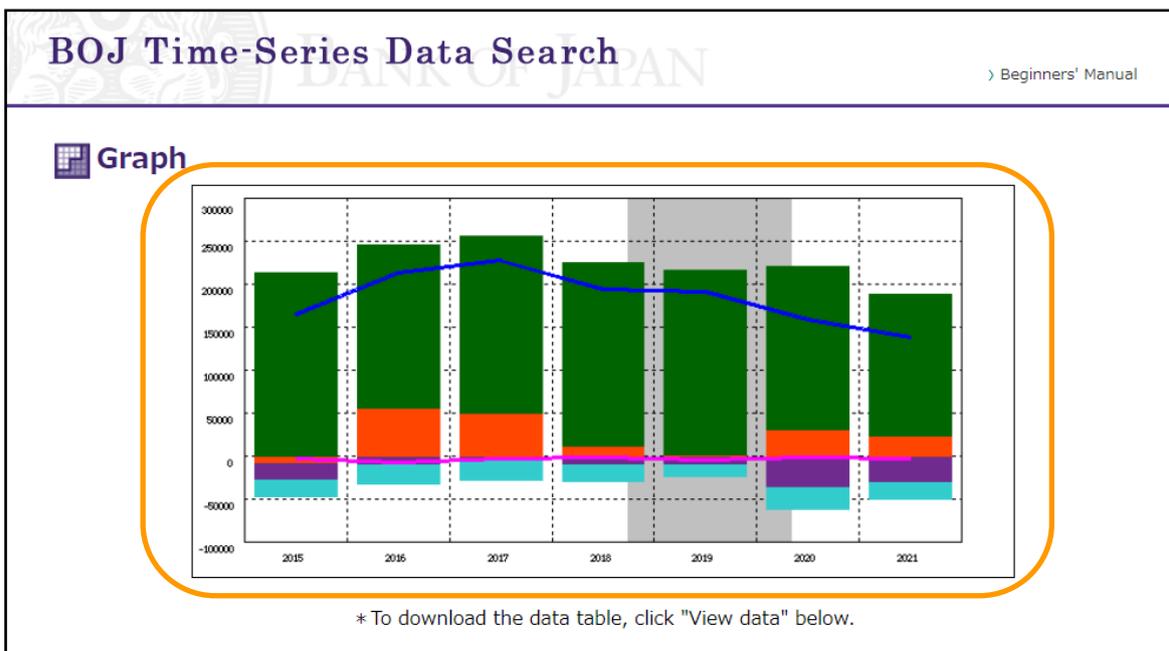
The screenshot shows the configuration interface for a graph titled "Capital account/Net balance". The subtitle is "[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]". There is a "Remove" button and a collapse icon in the top right. The configuration options are as follows:

- Graph type: Line
- Scale: Left
- Color: Magenta
- Line style: Solid
- Line width: Normal
- Mark type: —
- Difference: -----

An orange box highlights the "Difference" dropdown menu with the text "Click Redraw.". An orange arrow points from this box to the "Redraw" button in the bottom left corner of the configuration area. Other buttons include "Add", "View data", and "Print". A checkbox for "Print graph settings" is checked.

(9) The **Graph** page will have two line graphs and one stacked bar graph.

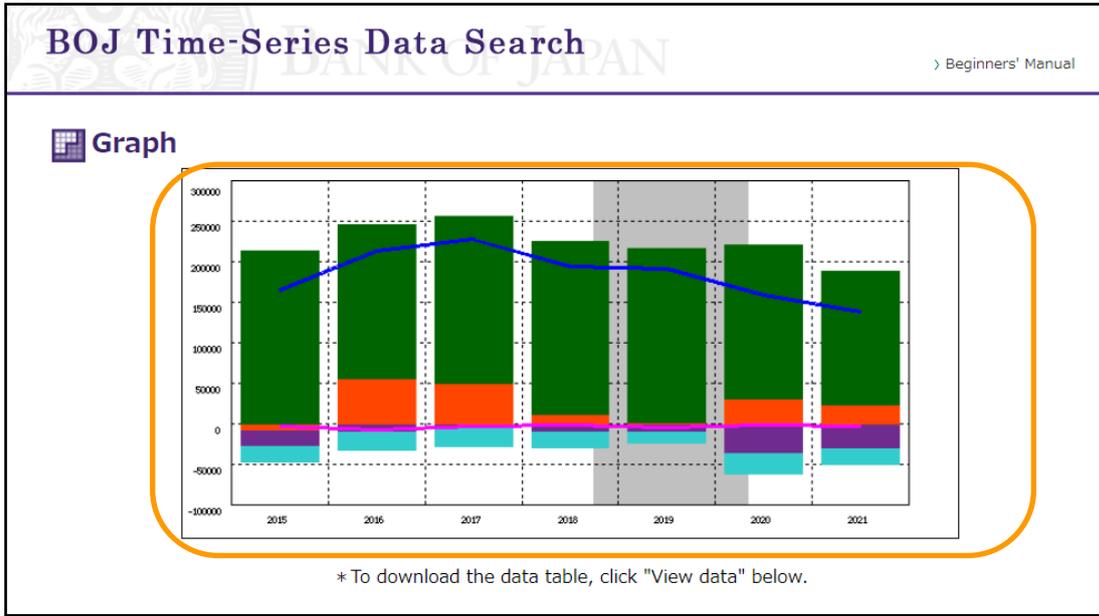
Graph page (upper part of screen; displaying two line graphs and one stacked bar graph)



D. Remove time-series data

Time-series data can be removed from your list of customized set of data and graph image. Given below is an example of removing a time-series item shown in one line graph.

Graph page (upper part of screen; displaying two line graphs and one stacked bar graph)



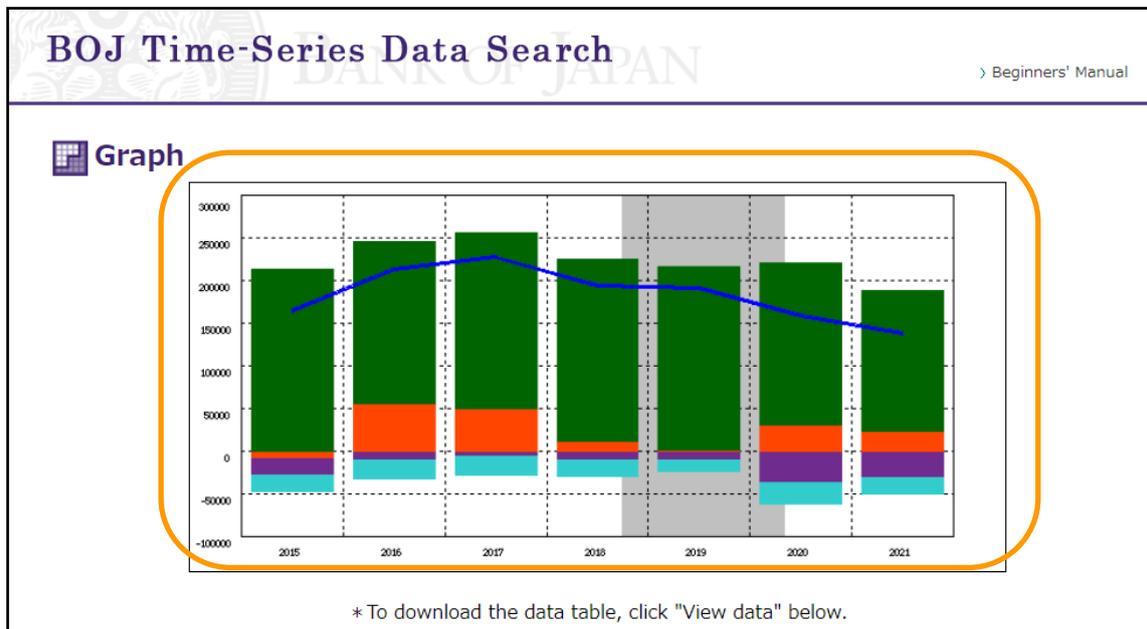
(1) In the **Time-series settings** section, click the **Remove** button in the time-series item to delete the item (in this case, the last line graph).

Graph page (bottom part of screen)

The screenshot shows the 'Capital account/Net balance' settings panel. The title is 'Capital account/Net balance' with a subtitle '[Balance of Payments (Data Based on the BPM6)][Unit : Click to remove item.]'. The panel contains several settings: Graph type (Line), Scale (Left), Color (Magenta), Line style (Solid), Line width (Normal), Mark type (—), and Difference (-----). A 'Remove' button is highlighted with an orange circle and an arrow pointing to it. Below the settings are buttons for 'Redraw', 'Add', 'View data', and 'Print'. At the bottom, there is a checkbox for 'Print graph settings' which is checked.

- (2) Make sure that the selected time-series item has been removed from the list in the **Time-series settings** section and the line graph deleted from the **Graph** page.

Graph page (upper part of screen; displaying one line graph and one stacked bar graph)



Graph page (bottom part of screen)

The screenshot shows the settings panel for the 'Secondary income / Net balance' series. The panel includes a 'Difference' dropdown menu, a 'Remove' button, and a 'Secondary income / Net balance' title. Below the title, there is a subtitle '[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]'. The settings include 'Graph type' set to 'Bar', 'Scale' set to 'Left', and 'Color' set to cyan. There is also a 'Difference' dropdown menu. At the bottom, there are buttons for 'Redraw', 'Add', 'View data', and 'Print', along with a checked checkbox for 'Print graph settings'.

E. Hide recession bars

The default settings of recession periods are displayed automatically as shaded gray bars (recession bars) behind other bars. Recession bars can be removed if unnecessary.

(1) Clear the **Recession bars** check box in the **Basic settings** section.

Graph page with the recession bar displayed (upper part of screen<default setting>)

The screenshot displays the BOJ Time-Series Data Search interface. At the top, the title "BOJ Time-Series Data Search" is visible, along with a "Beginners' Manual" link. The main content area is titled "Graph" and shows a stacked bar chart with a blue line graph overlaid. The x-axis represents years from 2015 to 2021, and the y-axis represents values from -100,000 to 300,000. A yellow box highlights the recession bars (shaded gray areas) for the years 2019 and 2020. Below the graph, a note states: "*To download the data table, click 'View data' below." The "Basic Settings" section is expanded, showing the "Output year range" set to "From 2015 To 2021". The "New frequency to be converted" is set to "Calendar year", and the "Conversion method" is set to "-----". The "Recession bars" checkbox is highlighted with a yellow box and an arrow pointing to a "Clear check box." label. Other options include "Stacked bar" (checked), "Reverse scale : left", and "Reverse scale : right". The "Time-series settings" section is also visible, showing the "Current account/Net balance" series selected, with a "Remove" button and a "Graph type" dropdown set to "Line".

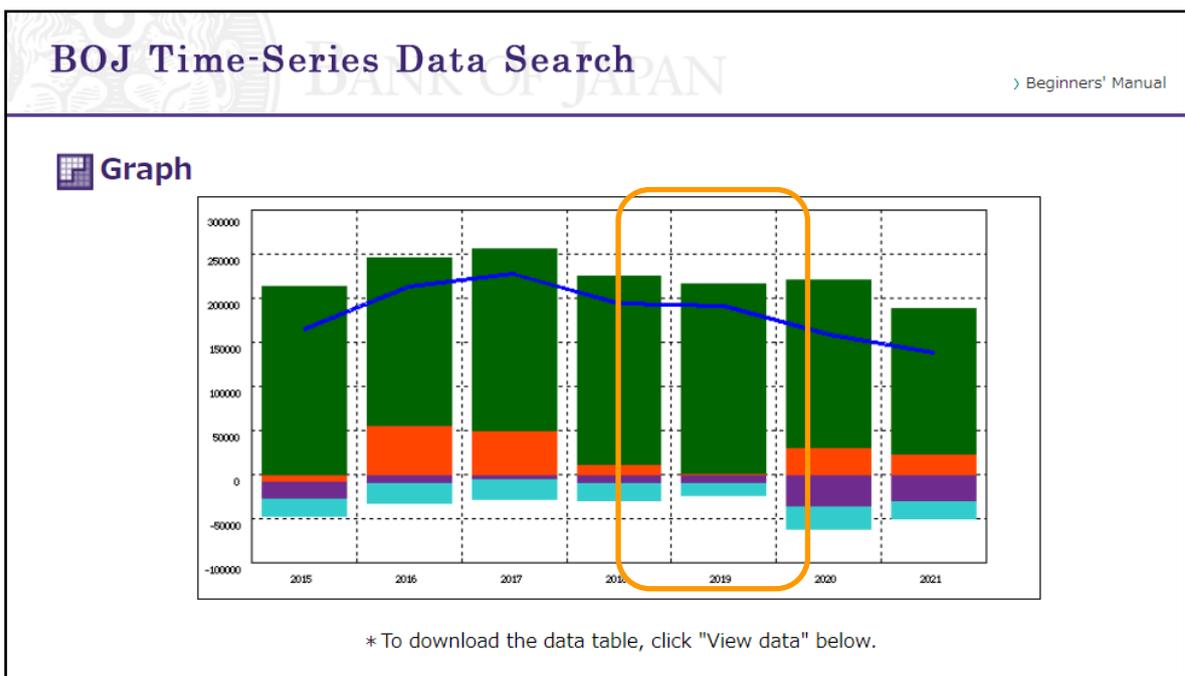
(2) Click the **Redraw** button.

Graph page (bottom part of screen)

The screenshot shows the configuration area for a graph titled "Secondary income / Net balance". The subtitle is "[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]". There is a "Remove" button with up and down arrows. The configuration options are: Graph type: Bar, Scale: Left, Color: a teal square, and Difference: -----. A yellow box highlights the "Difference" dropdown with the text "Click Redraw." and an arrow pointing to the "Redraw" button in the action bar below. The action bar contains "Redraw", "Add", "View data", and "Print" buttons, along with a checked checkbox for "Print graph settings". At the bottom, there are navigation links: "Quick guidance for time-series search", "Notices", "Contact", "Site Map", and "Bank of Japan's website". A copyright notice "Copyright Bank of Japan All Rights Reserved." is at the very bottom.

(3) The recession bar will not show.

Graph page with the recession bar hidden (upper part of screen)

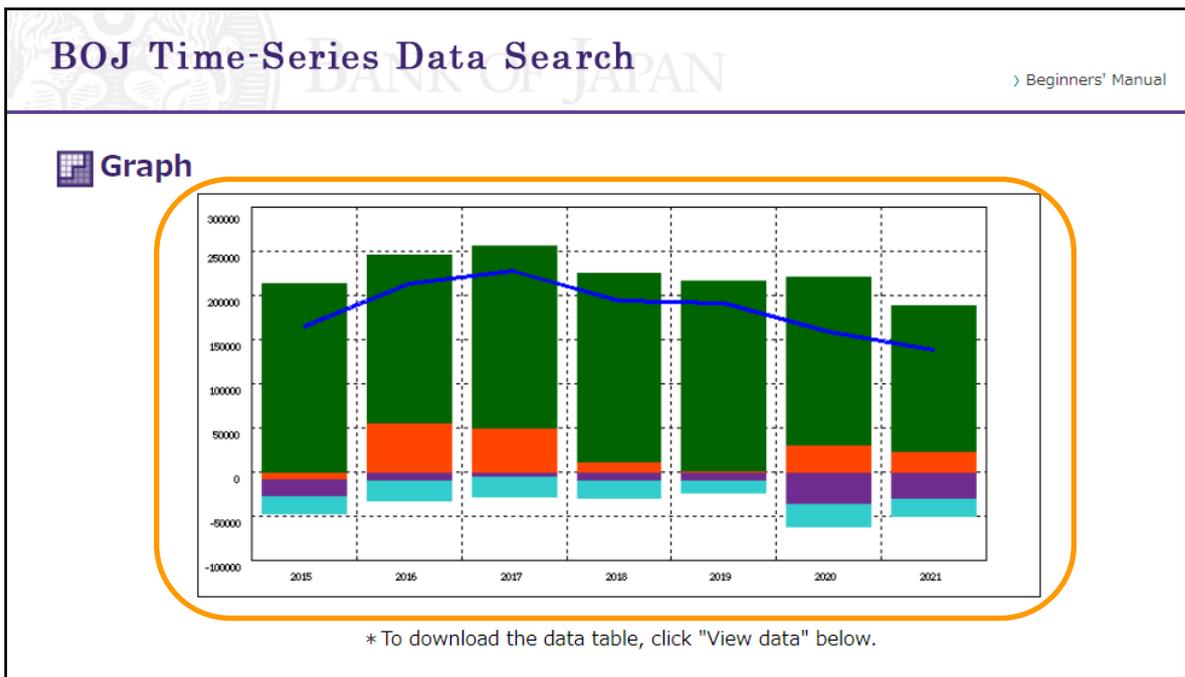


F. Rearrange order of stacked bar graphs

The order of stacked bar graphs can be rearranged -- using the drag & drop function -- by changing the order of the list of time-series items in the **Time-series settings** section.

The default time-series data listed in descending order in the **Time-series settings** section are rearranged into ascending order (i.e., the time-series data listed on the top is shown at the bottom of the vertical axis).

Graph page (upper part of screen; displaying stacked bar graph with green bar on top)



(1) Drag and drop the time-series items to rearrange the order of the items.

Graph page (middle part of screen; prior to drag)

The screenshot shows two graph configuration panels. The top panel is titled "Goods/Net balance" and includes a "Remove" button and a chevron icon. Below the title is the subtitle "[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]". The configuration options are: Graph type: Bar, Scale: Left, Color: Red, and Difference: -----. The bottom panel is titled "Primary income/Net balance" and includes a "Remove" button and a chevron icon. Below the title is the subtitle "[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]". The configuration options are: Graph type: Bar, Scale: Left, Color: Green, and Difference: -----. An orange box highlights the top panel, and an orange arrow points from it to the bottom panel, indicating a drag operation.

Graph page (middle part of screen; after drag)

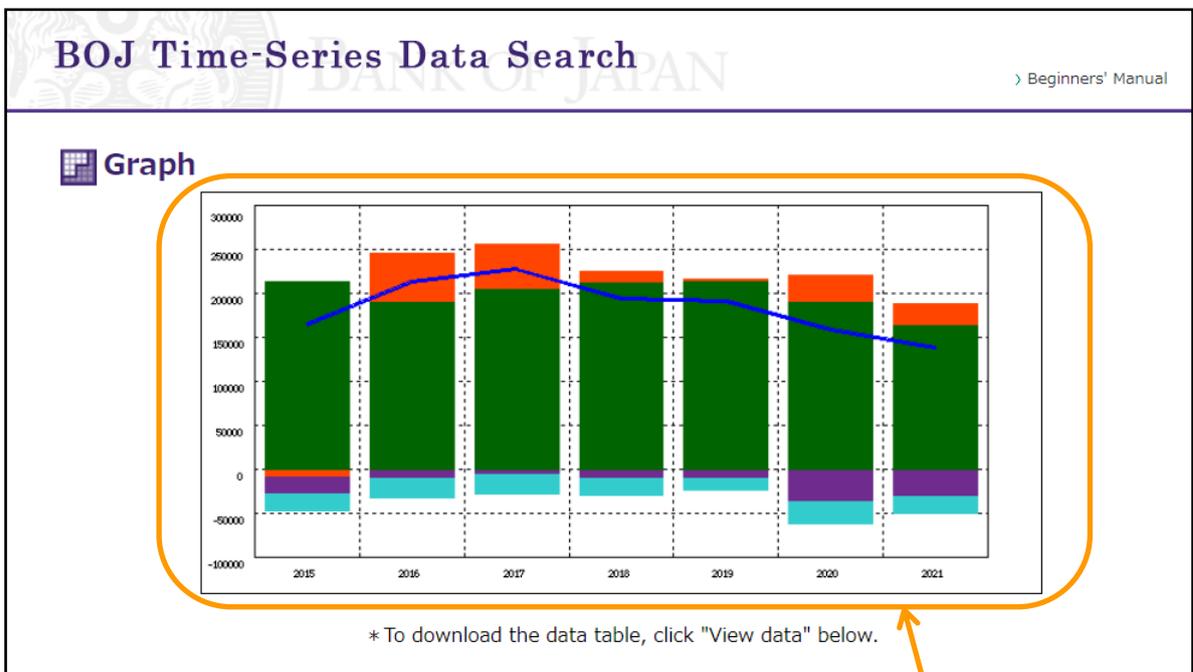
The screenshot shows the same two graph configuration panels, but their order has been swapped. The top panel is now titled "Primary income/Net balance" and includes a "Remove" button and a chevron icon. Below the title is the subtitle "[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]". The configuration options are: Graph type: Bar, Scale: Left, Color: Green, and Difference: -----. The bottom panel is now titled "Goods/Net balance" and includes a "Remove" button and a chevron icon. Below the title is the subtitle "[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]". The configuration options are: Graph type: Bar, Scale: Left, Color: Red, and Difference: -----.

(2) Click the **Redraw** button.

Graph page (bottom part of screen)

The screenshot shows the configuration panel for a graph titled "Secondary income / Net balance". The subtitle is "[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]". A "Remove" button is in the top right. The configuration options are: Graph type: Bar, Scale: Left, Color: a teal square, and Difference: -----. Below these options is a "Click Redraw." callout box with an arrow pointing to the "Redraw" button in a purple action bar. Other buttons in the bar are "Add", "View data", and "Print". A checkbox "Print graph settings" is checked. At the bottom, there are navigation links: "Quick guidance for time-series search", "Notices", "Contact", "Site Map", and "Bank of Japan's website". Copyright text "Copyright Bank of Japan All Rights Reserved." is at the very bottom.

(3) The stacked bar graphs are rearranged.



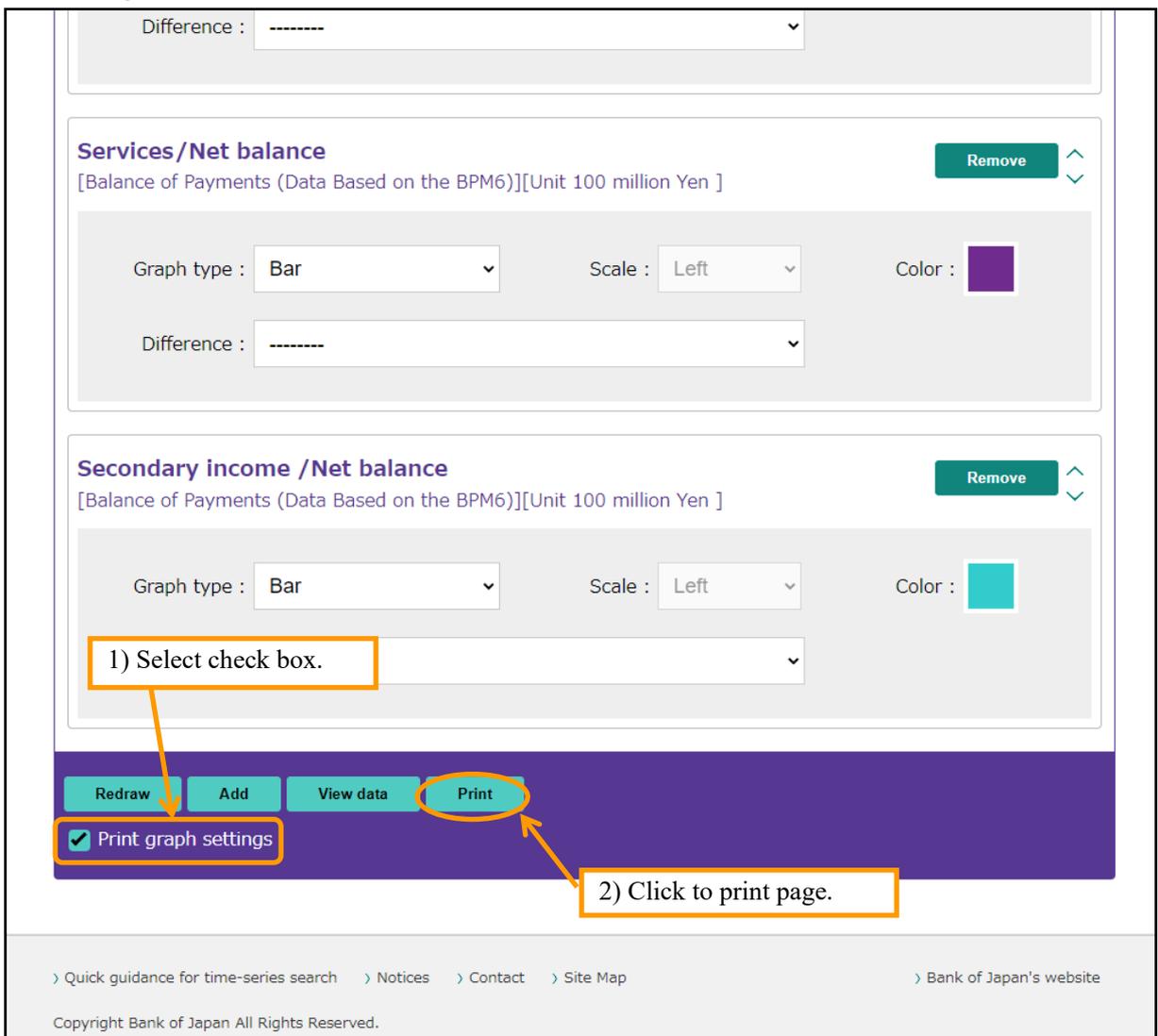
4. Print graph image

You can print the image of graphs illustrated in the **Key figures at a glance** section or for your customized set of time-series data, as well as information on graph settings, such as inputs in the **Basic settings** and **Time-series settings** sections.

A. Print graph image and graph settings

(1) Select a **Print graph settings** check box, and then click the **Print** button.

Graph page (bottom part of screen)

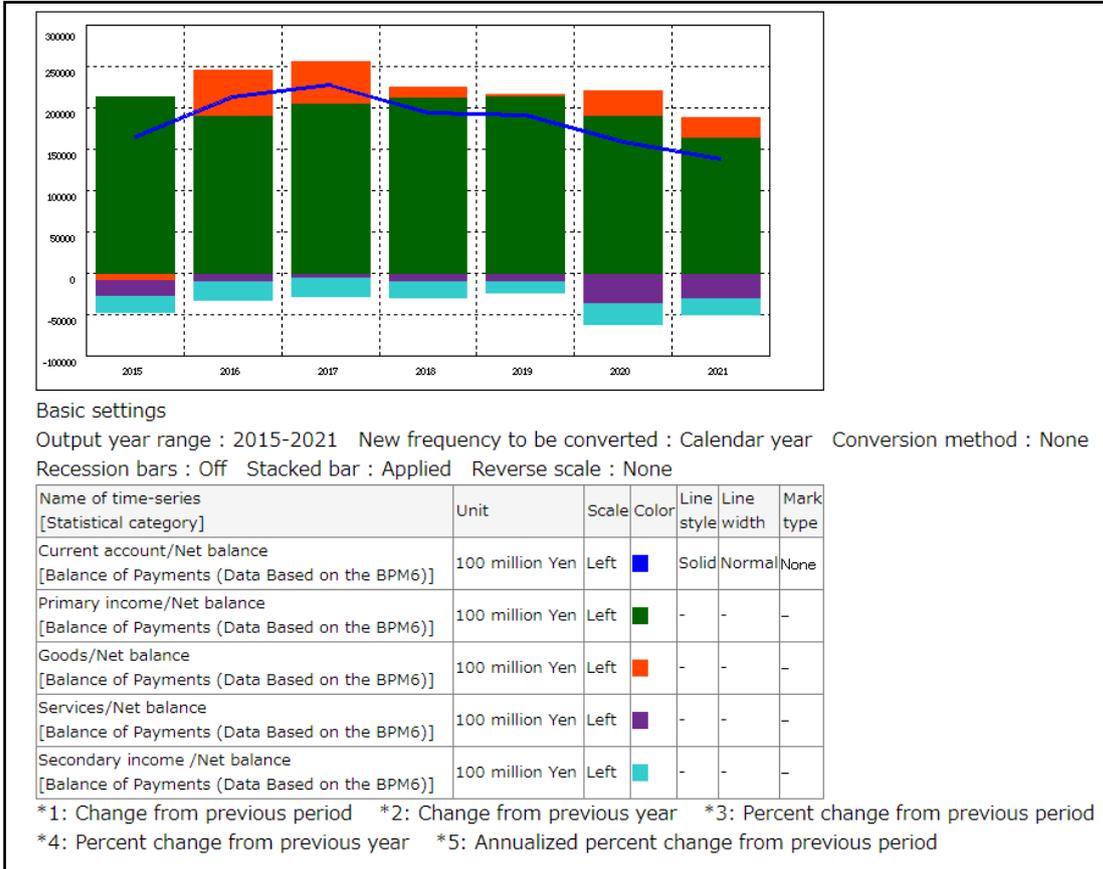


The screenshot displays the bottom part of a graph page. It features two graph configuration sections: "Services/Net balance" and "Secondary income /Net balance". Each section includes a "Difference" dropdown, a "Graph type" dropdown (set to "Bar"), a "Scale" dropdown (set to "Left"), and a "Color" selection. Below these sections is a "Print graph settings" checkbox, which is checked and highlighted with an orange box. An arrow points from this checkbox to a callout box containing the text "1) Select check box.". To the right of the checkbox is a "Print" button, also highlighted with an orange box. An arrow points from this button to a callout box containing the text "2) Click to print page.". At the bottom of the page, there is a navigation bar with links for "Quick guidance for time-series search", "Notices", "Contact", "Site Map", and "Bank of Japan's website". A copyright notice for the Bank of Japan is also present.

(2) Once the **Print preview** window opens, move on to the **File** menu and press **Print**.

- This procedure may differ depending on your browser.

Print preview with graph settings



B. Print only graph image

Clear the **Print graph settings** check box, and then click the **Print** button. Continue on with procedure shown on page 50.

Graph page (bottom part of screen)

Secondary income / Net balance
[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Remove

Graph type : Bar Scale : Left Color : ■

Difference: 1) Clear check box.

Redraw Add View data **Print**

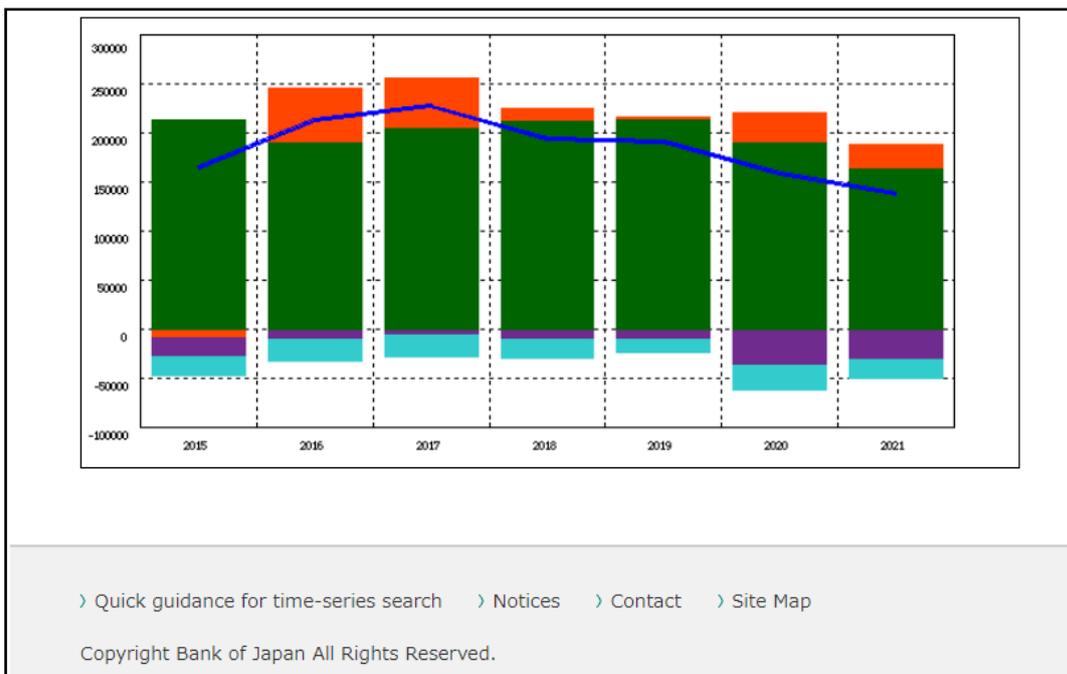
Print graph settings

2) Click to print page.

[Quick guidance for time-series search](#) [Notices](#) [Contact](#) [Site Map](#) [Bank of Japan's website](#)

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Print preview without graph settings

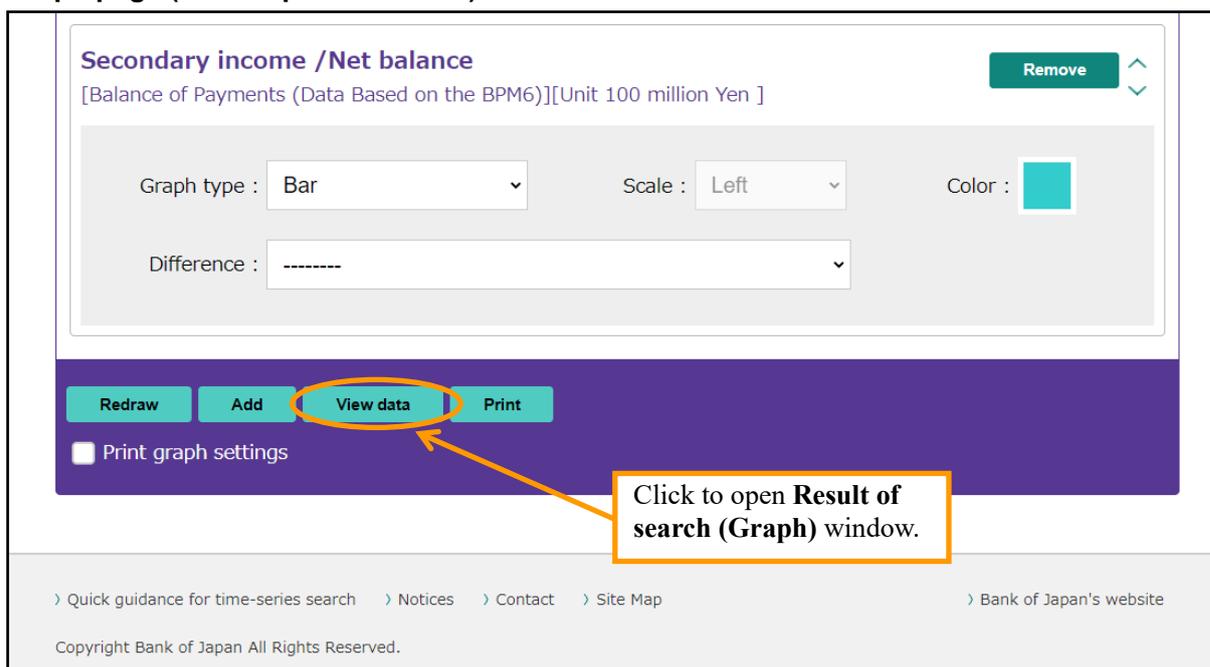


5. Check information and data of graphs

You can check data and information on time-series items of your illustrated graphs using data in the **Key figures at a glance** section or your customized set of time-series data.

(1) In the **Graph** page, click the **View data** button to open the **Result of search (Graph)** window.

Graph page (bottom part of screen)



The screenshot displays the bottom portion of a graph interface. At the top, the title is "Secondary income /Net balance" with a subtitle "[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]" and a "Remove" button. Below this are settings for "Graph type" (set to "Bar"), "Scale" (set to "Left"), and "Color" (a teal square). A "Difference" dropdown menu is also visible. A dark purple bar contains four buttons: "Redraw", "Add", "View data", and "Print". The "View data" button is circled in orange, and an orange arrow points from it to a callout box containing the text "Click to open Result of search (Graph) window." Below the buttons is a checkbox for "Print graph settings". The footer includes navigation links for "Quick guidance for time-series search", "Notices", "Contact", and "Site Map", along with "Bank of Japan's website" and a copyright notice: "Copyright Bank of Japan All Rights Reserved."

(2) In the **Result of search (Graph)** window, choose **Information on time-series** for information on the time-series data, or click the link to **Time-series data** to check data content.

Result of search (Graph) window

BOJ Time-Series Data Search Beginners' Manual

Result of search(Graph)

Type of table	Download header type	File type	Download*
<ul style="list-style-type: none"> ● Information on time-series (converted:ANNUAL) ● Time-series data (converted:ANNUAL) 	<input checked="" type="radio"/> Simple header <input type="radio"/> Header <input type="radio"/> No Header	<input checked="" type="radio"/> CSV <input type="radio"/> TAB	Download
<ul style="list-style-type: none"> ● Information on time-series(MONTHLY) ● Time-series data(MONTHLY) 	<input checked="" type="radio"/> Simple header <input type="radio"/> Header <input type="radio"/> No Header	<input checked="" type="radio"/> CSV <input type="radio"/> TAB	Download

* In the case that "Frequency conversion" or "Difference" is applied, some figures may differ from those in other publications as data processing is conducted using digital equipment on this site.

Click either link.

[Save selected series codes](#)
[Close](#)

[Quick guidance for time-series search](#)
[Notices](#)
[Contact](#)
[Site Map](#)
[Bank of Japan's website](#)

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(3) In the **Information on time-series data (Graph)** window, you can get information on graphs of time-series data. In the **Time-series data (Graph)** window, you can view the data content of the time-series data.

- You can switch windows by clicking the button.

Information on time-series data (Graph) window

BOJ Time-Series Data Search › Beginners' Manual

Information on time-series data(Graph)

Time-series data
Back

Series code	BP01'BPBP6JYNCB
Name of time-series	Current account/Net balance
Statistical category	Balance of Payments (Data Based on the BPM6)
Frequency	MONTHLY
Conversion method	SUMMED
Last update	2021/11/09
Unit	100 million Yen
Start of the time-series	1996/01
End of the time-series	2021/09
Notes	

Time-series data (Graph) window

BOJ Time-Series Data Search › Beginners' Manual

Time-series data(Graph)

Information on time-series data
Back

* In the case that "Frequency conversion" or "Difference" is applied, some figures may differ from those in other publications as data processing is conducted using digital equipment on this site.

	BP01'BPBP6JYNCB Current account/Net balance	BP01'BPBP6JYNPIN Primary income/Net balance	BP01'BPBP6JYNTB Goods/Net balance	BP01'BPBP6JYNSN Services/Net balance	BP01'BPBP6JYNSIN Secondary income /Net balance
2015	165194.04380261	213032.0805006	-8862.45774899	-19306.96754323	-19668.6114058
2016	213909.55035195	191477.852965	55175.5393597	-11287.66768315	-21456.17428959
2017	227779.24872529	206843.41311959	49113.1108563	-6906.65070889	-21270.62454171
2018	195046.95925327	214026.25171904	11264.68641872	-10212.5888677	-20031.39001678
2019	192106.31578409	215124.11230884	1502.755381	-10820.70368855	-13699.84821718
2020	158789.5574656	191531.89134445	30106.27815551	-37356.57625021	-25492.03578412
2021	137851.45257608	164299.07788455	23530.65928138	-31533.54055868	-18444.74403117

→ To redraw graphs, see page 28.

6. Features of Graph page

Features of the **Graph** page are described below. Details of the graph image can be altered using these features.

Graph page (upper part of screen)

BOJ Time-Series Data Search

BANK OF JAPAN

[Beginners' Manual](#)

Graph

Graph images can be pasted to other text files or saved as an image file.

* To download the data table, click "View data" below.

Basic Settings

(1) Output year range : From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

(2) New frequency to be converted : (3) Conversion method :

(4) Recession bars (5) Stacked bar (6) Reverse scale : left (7) Reverse scale : right

Time-series settings

Current account/Net balance

[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

(8) Remove ^ v

(9) Graph type : (10) Scale : (11) Color :

(12) Line style : (13) Line width : (14) Mark type :

(15) Difference :

Graph page (bottom part of screen)

Graph type : Line Scale : Left Color : ■

Line style : Solid Line width : Normal Mark type : —

Difference : -----

(16) Redraw (17) Add (18) View data (19) Print

(20) Print graph settings

[Quick guidance for time-series search](#) [Notices](#) [Contact](#) [Site Map](#) [Bank of Japan's website](#)

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- (1) Enter output year range.
- (2) Specify frequency.
- (3) Specify method of changing frequency.
- (4) Select check box to display recession period.
- (5) Select check box to stack bar graphs.
- (6) Select check box to display the left axis in reverse scale.
- (7) Select check box to display the right axis in reverse scale.
- (8) Click button to remove time-series data.
- (9) Specify graph type.
- (10) Choose either the left- or right-scale vertical axis. (For bar graphs, scales are automatically set at the left vertical axis.)
- (11) Click to open color window to change color (see illustration below).
- (12) Specify style for line graphs.
- (13) Specify width for line graphs.
- (14) Specify mark type for line graphs.
- (15) Specify to change graphs into rate of change basis.
- (16) Click to redraw graphs after changing graph settings in the **Basic settings** or **Time-series settings** section.
- (17) Click to open the **Add time-series** window to add time-series data.
- (18) Click to check information and data for graphs.
- (19) Click to print graphs by opening the **Print preview** window.
- (20) Select a check box to display graph settings in the **Print preview** window.

Color window

Output year range : From To

Ex. from [2010] to [2015]. Not specified : latest 5 years(Daily series : latest 1 year).

New frequency to be converted : Conversion method :

Recession bars

Color



Time-series settings

Current account/Net balance

[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Graph type : Scale : Color :

Line style : Line width : Mark type :

Difference :

Goods/Net balance

[Balance of Payments (Data Based on the BPM6)][Unit 100 million Yen]

Graph type : Scale : Color :