

Beginners' Manual for BOJ Time-Series Data Search

Easy-to-Use On-Screen Instructions for Data Searching and Graph Drawing

Contents

I. Data Searching

How to view the latest data of major time-series statistics released by the BOJ, with just a single click	2
How to find specific time-series data	
1. Search by category of the statistics	4
2. Search by keyword	10
3. Search by using data codes	13
How to conduct an advanced search, for example, finding a customized set of time-series data	16
How to download data packages on price statistics, Flow of Funds, and TANKAN	19

II. Graph Drawing

How to view and/or draw the graphs of statistical data released by the BOJ	
1. Viewing and using the graphs of the "Key figures at a glance"	20
2. Drawing graphs of your customized set of time-series data	22
3. Redrawing graphs	
A. Change the type of graphs	29
B. Change the frequency of graphs	33
C. Add new time series	34
D. Remove time series	39
E. Hide recession bars	41
F. Change the order in the stacked bar graph	42
4. Printing a graph image	44
5. Checking the information and data for graphs	47
6. The features of the Graph window	49

I. Data Searching

How to view the latest data of major time-series statistics released by the BOJ, with just a single click.

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

For viewing, the statistics are in the upper part of the BOJ Time-Series Data Search home page. With a single click of a link of selected frequency of release, namely, **Daily**, **Weekly (Monday Base)**, **Monthly**, **Quarterly**, or **Fiscal Year**, you can view tables of statistical data for each period.

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

The BOJ Time-Series Data Search home page

The screenshot shows the BOJ Time-Series Data Search home page in a Windows Internet Explorer browser. The page features the Bank of Japan logo and a green banner with the title "BOJ Time-Series Data Search". Below the banner, a welcome message states: "Welcome to 'BOJ Time-Series Data Search,' a database of 160 thousands time-series data of the Bank of Japan. You can download and view graphs of these data." A link for the "Petit Manual for BOJ Time-Series Data Search Graph" is provided. The "Key figures at a glance" section includes icons for Interest Rates, FX, Money Stock, and Prices. The "BOJ's main time-series statistics" section contains links for Daily, Weekly (Monday Base), Monthly, Quarterly, and Fiscal year, along with a link for "List of main time-series statistics". A text box below this section explains the update schedule: "BOJ's main time-series statistics" is updated three times on each business day at around 9:00, 12:00, and 15:00 JST. The "Time-series data search, graph" section offers a "Search by statistics" option with links to "Statistics List and Data Search Menu", "of which TANKAN", "of which Prices", and "of which Flow of Funds". It also lists various statistical categories such as Bank of Japan (BJ), Currency (MA), Financial Institutions Accounts (FA), Deposits and Loans Market (DL), Financial Markets (ST), Payments and Settlements (PM), TANKAN (CO), Prices (PR), Public Finance (PF), Balance of Payments (BP), Flow of Funds (FF), and Others (OT). A "Search among all time-series data" section at the bottom provides search options by "statistical category and name of time-series" or "exact series codes". Two orange callout boxes provide instructions: one points to the "List of main time-series statistics" link with the text "Click for the list of tables for each frequency of release.", and the other points to the "Statistics List and Data Search Menu" link with the text "Click for the list of all time series in the statistics." The browser's status bar at the bottom indicates "ローカル イン트라ネット | 保護モード: 無効" and "100%".

For downloading, click the **Download** button in the upper left-hand corner of tables. 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 drawing graphs for your customized set of time-series data, see "II. Graph Drawing," starting on page 20.

The BOJ's Main Time-Series Statistics window

Click to download data.

Click to display a simple graph.

BOJ's Main Time-series Statistics (Daily)

Last Update : 2010-04-27 PM 03:00

	Basic Loan Rate	Short term Money Market Rate/Call Rates	Foreign Exchange Rate/Tokyo Market Interbank Rate	Foreign Exchange Rate/Tokyo Market Interbank Rate
	The Basic Discount Rate and Basic Loan Rate	Call Rates, Uncollateralized Overnight (Daily)	US.Dollar/Yen Spot Rate at 17:00 in JST, Tokyo Market	US.Dollar/Yen Central Rate, Tokyo Market
	BJMADR1Z00	STSTRDCLUC0N	STFXER004	STFXER005
	Percent per annum	percent per annum	Yen per U.S. Dollar	Yen per U.S. Dollar
1998/01/01	0.5	ND	ND	ND
1998/01/02	0.5	ND	ND	ND
1998/01/03	0.5	ND	ND	ND
1998/01/04	0.5	ND	ND	ND
1998/01/05	0.5	0.49	132.85	ND
1998/01/06	0.5	0.42	133.59	ND
1998/01/07	0.5	0.4	133.12	ND
1998/01/08	0.5	0.35	133.01	ND
1998/01/09	0.5	0.33	131.39	ND
1998/01/10	0.5	NA	NA	ND
1998/01/11	0.5	NA	NA	ND
1998/01/12	0.5	0.45	132.29	ND

How to find specific time-series data.

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

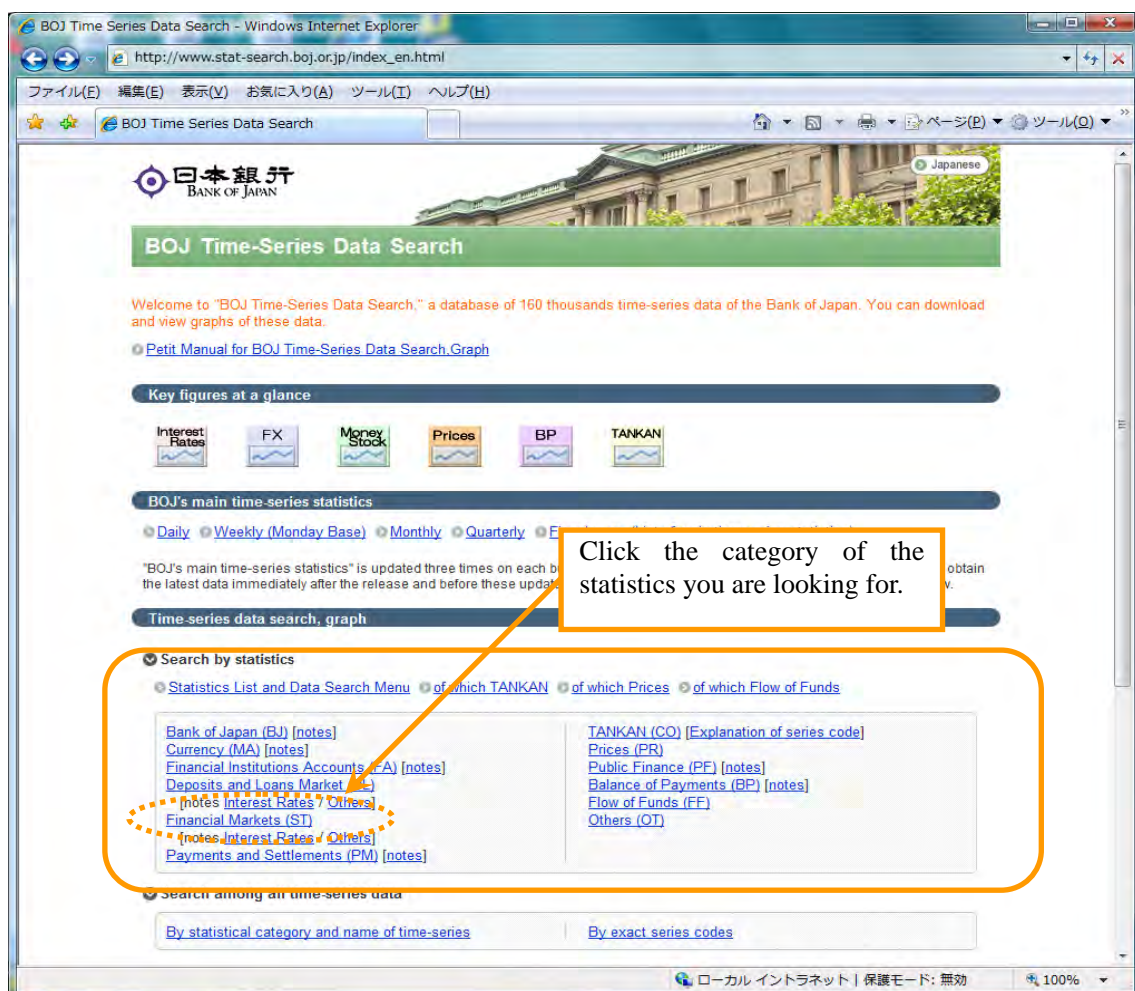
You can locate the specific time series of the specific statistics, for example, Effective Exchange Rates, using the following procedures.

1. Search by category of the statistics

- (1) Click the category of the statistics you are looking for in **Search by statistics** to go to **Search Conditions**.

- For the list of items included in each category, go to **Statistics List and Data Search Menu**.
- For Effective Exchange Rates, click **Financial Markets (ST)**.

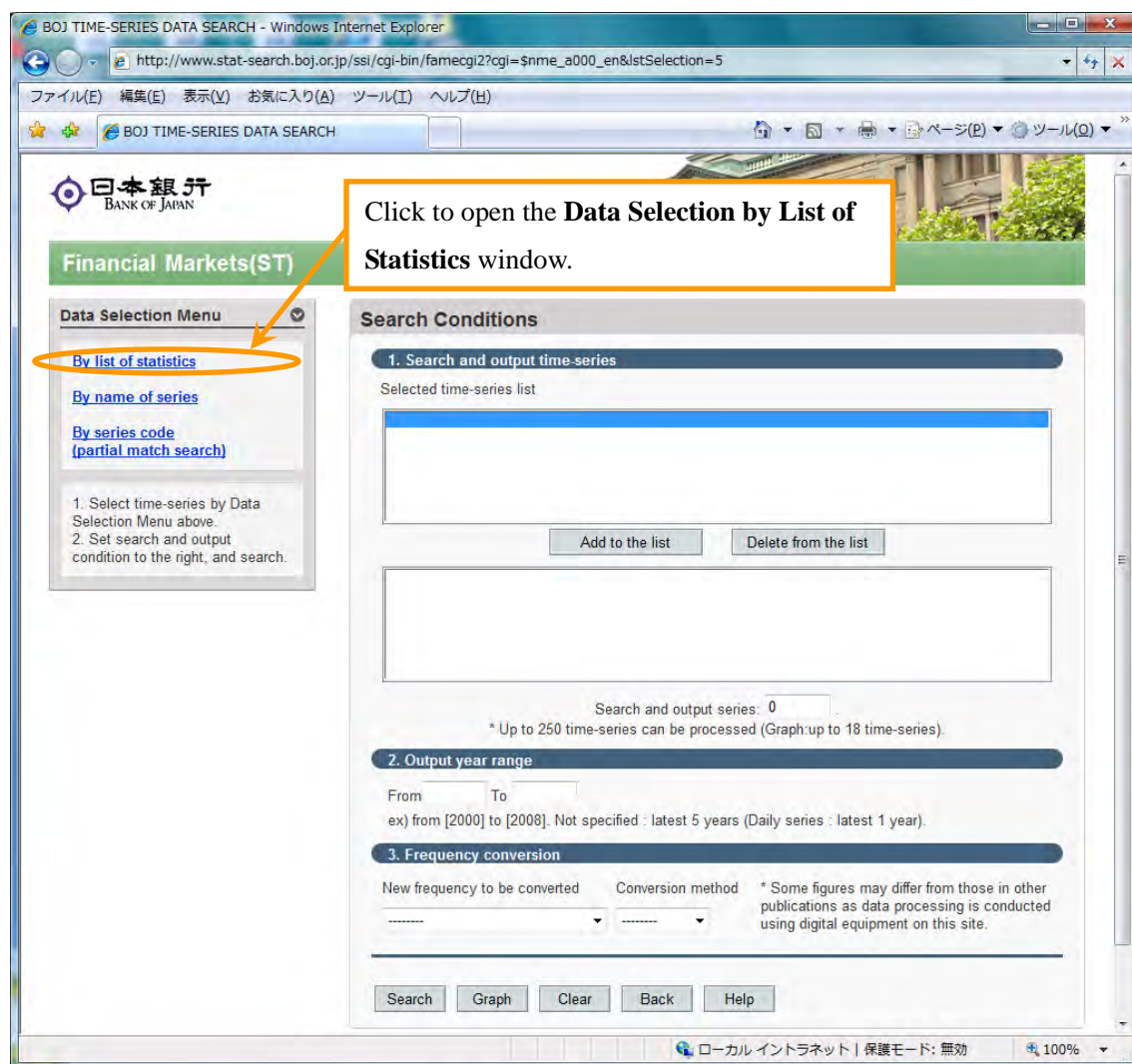
The BOJ Time-Series Data Search home page



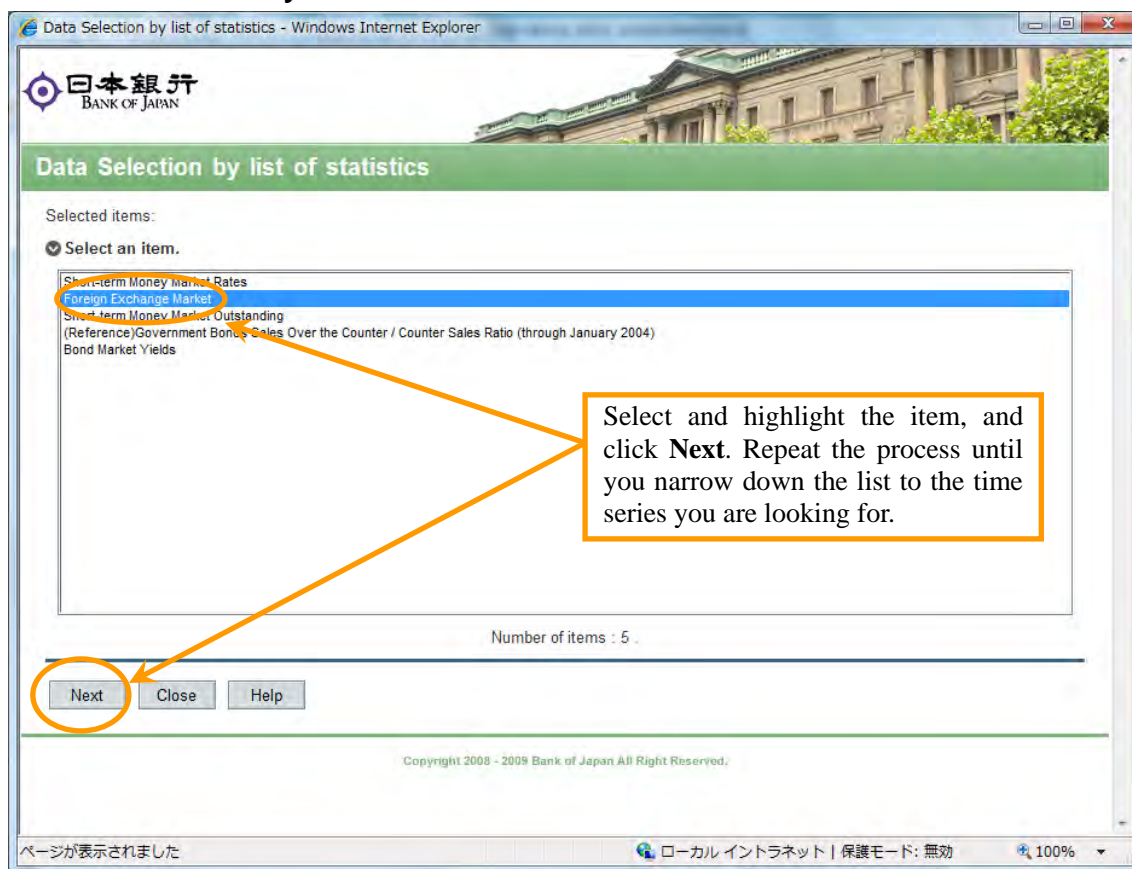
(2) In the **Search Conditions** window, click **By list of statistics** in the **Data Selection Menu** in the upper left-hand corner to open the **Data Selection by List of Statistics** window.

- Do not close the **Search Conditions** window, because you will need it to save the items you selected.

The Search Conditions window



The Data Selection by List of Statistics window



(3) In the **Data Selection by List of Statistics** window, highlight the selected item and click the **Next** button.

- If you have selected **Financial Markets (ST)** in the previous window, a list of items such as **Short-term Money Market Rates**, **Foreign Exchange Market**, and **Amounts Outstanding in the Money Market** should appear in the window. Select and click **Foreign Exchange Market**, and then click the **Next** button.

(4) Repeat the same selection process and click the **Next** button to proceed with your search.

- If you have selected **Foreign Exchange Market** and clicked the **Next** button, you should see the following list of items: **Foreign Exchange Rates (Daily)**, **Foreign Exchange Rates (Monthly)**, and **Effective Exchange Rates (Nominal, Real)**. Select and click **Effective Exchange Rates (Nominal, Real)** and then click the **Next** button.

(5) By narrowing down, you will reach the list of the specific time series you are looking for. In the last selection window, you will find a note, "For selecting more than one item, press {Shift} or {Ctrl} and click the items. Note that the maximum number of selection is 300 time series." Select all the items you need, and click the **Select** button.

- To retrieve data on effective exchange rates both in nominal and real terms, select both.

(6) The information on the selected time series will be transferred to and saved in the **Search Conditions** window, which should be left opened. Upon confirming that you have chosen all the necessary time series, close the **Data Selection by List of Statistics** window. Again, make sure to leave the **Search Conditions** window open.

Notes

- An error message will appear if the **Search Conditions** window was closed when you click the **Select** button and transfer the information on the selected time series to the window. If this happens, go back to the BOJ Time-Series Data Search home page and redo the above process.
- The information on the selected time series will be transferred to the **Search Conditions** window the same number of times that you clicked the **Select** button.

The Data Selection by List of Statistics window

The screenshot shows the 'Data Selection by list of statistics' window in Internet Explorer. The window title is 'Data Selection by list of statistics - Windows Internet Explorer'. The page header includes the Bank of Japan logo and the text 'Data Selection by list of statistics'. Below the header, it says 'Selected items: Foreign Exchange Market>Effective Exchange Rates'. A list of items is displayed, including 'STFX180110001(Nominal/Effective Exchange Rates)', 'STFX180110002(Real/Effective Exchange Rates)', 'STFXCP7JP((Discontinued)/Nominal/Effective Exchange Rates (through January 2010))', and 'STFXCP8JP((Discontinued)/Real/Effective Exchange Rates (through January 2010))'. A 'Select items.' section with a note about selecting multiple items is present. At the bottom, there are buttons for 'Select all items', 'Select', 'Back', and 'Cancel'. A confirmation dialog box is open, stating '"Data Selection" has been successful. To close the data selection window, please click on "OK."'. The dialog box has 'OK' and 'キャンセル' (Cancel) buttons. Three callout boxes provide instructions: 1. 'Select and highlight items, and click **Select**. The information on the selected time series will be transferred to the **Search Conditions** window.' (pointing to the 'Select' button). 2. 'Click to close the **Data Selection by List of Statistics** window and go back to the **Search Conditions** window.' (pointing to the 'OK' button). 3. 'Click to go back to the **Data Selection by Database** window and add more time series.' (pointing to the 'キャンセル' button).

(7) Go back to the **Search Conditions** window to continue. The list of time series that you selected in the **Data Selection by List of Statistics** window will be shown in **Search and output time series**. Leaving this as it is, click the **Search** button at the bottom of the window.

- If you do not specify the output year range of your search, the yearly data given will be for the latest five years, and the daily data for the past year. If you would like to include data earlier than five years ago or shorten the time period, enter the starting and finishing years in the left-hand boxes under the **Output year range** section.

The Search Conditions window

The screenshot shows the 'BOJ TIME-SERIES DATA SEARCH' window in Internet Explorer. The page title is 'Financial Markets(ST)'. On the left is the 'Data Selection Menu' with links: 'By list of statistics', 'By name of series', 'By series code', and '(partial match search)'. The main area is titled 'Search Conditions' and contains three sections: 1. 'Search and output time-series' with a 'Selected time-series list' showing 'STFX180110001(Nominal/Effective Exchange Rates)' and 'STFX180110002(Real/Effective Exchange Rates)'. 2. 'Output year range' with 'From' and 'To' input fields. 3. 'Frequency conversion' with 'New frequency to be converted' and 'Conversion method' dropdowns. At the bottom are buttons for 'Search', 'Graph', 'Clear', 'Back', and 'Help'. Annotations include: an arrow pointing to the selected time-series list with the text 'This is the list of time series you selected in the Data Selection by List of Statistics window.'; an arrow pointing to the 'Output year range' section with the text 'Enter the output year range for your data. If you do not specify the range, then the data will be for the latest five years (except for daily data).'; and an arrow pointing to the 'Search' button with the text 'Click to start searching for your data.'

BOJ TIME-SERIES DATA SEARCH - Windows Internet Explorer

http://www.stat-search.boj.or.jp/cgi-bin/famecgi2?cgi=\$name_a000_en&lstSelection=5

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(I) ヘルプ(H)

BOJ TIME-SERIES DATA SEARCH

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Financial Markets(ST)

Data Selection Menu

- By list of statistics
- By name of series
- By series code
- (partial match search)

Search Conditions

1. Search and output time-series

Selected time-series list

- STFX180110001(Nominal/Effective Exchange Rates)
- STFX180110002(Real/Effective Exchange Rates)

Add to the list Delete from the list

Search and output series: 2

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

2. Output year range

From To

ex) from [2000] to [2008] Not specified : latest 5 years (Daily series : latest 1 year).

3. Frequency conversion

New frequency to be converted Conversion method

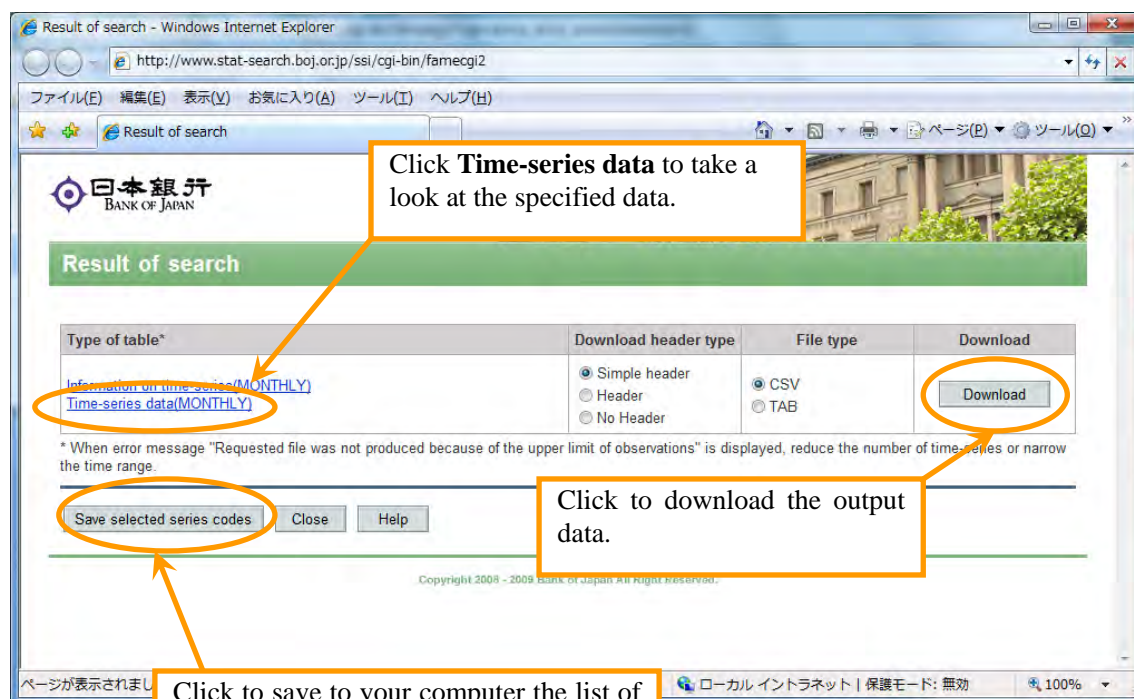
* Some figures may differ from those in other publications as data processing is conducted using digital equipment on this site.

Search Graph Clear Back Help

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- (8) When the search is completed, the selected data will appear in the **Results of search** window. To save the data, click the **Download** button in the right-hand portion of the window. To take a look at the data without downloading them, click **Time-series data**. With a click of the **Save selected series codes** button, you can download the list of time-series data codes to your computer.

The Results of search window

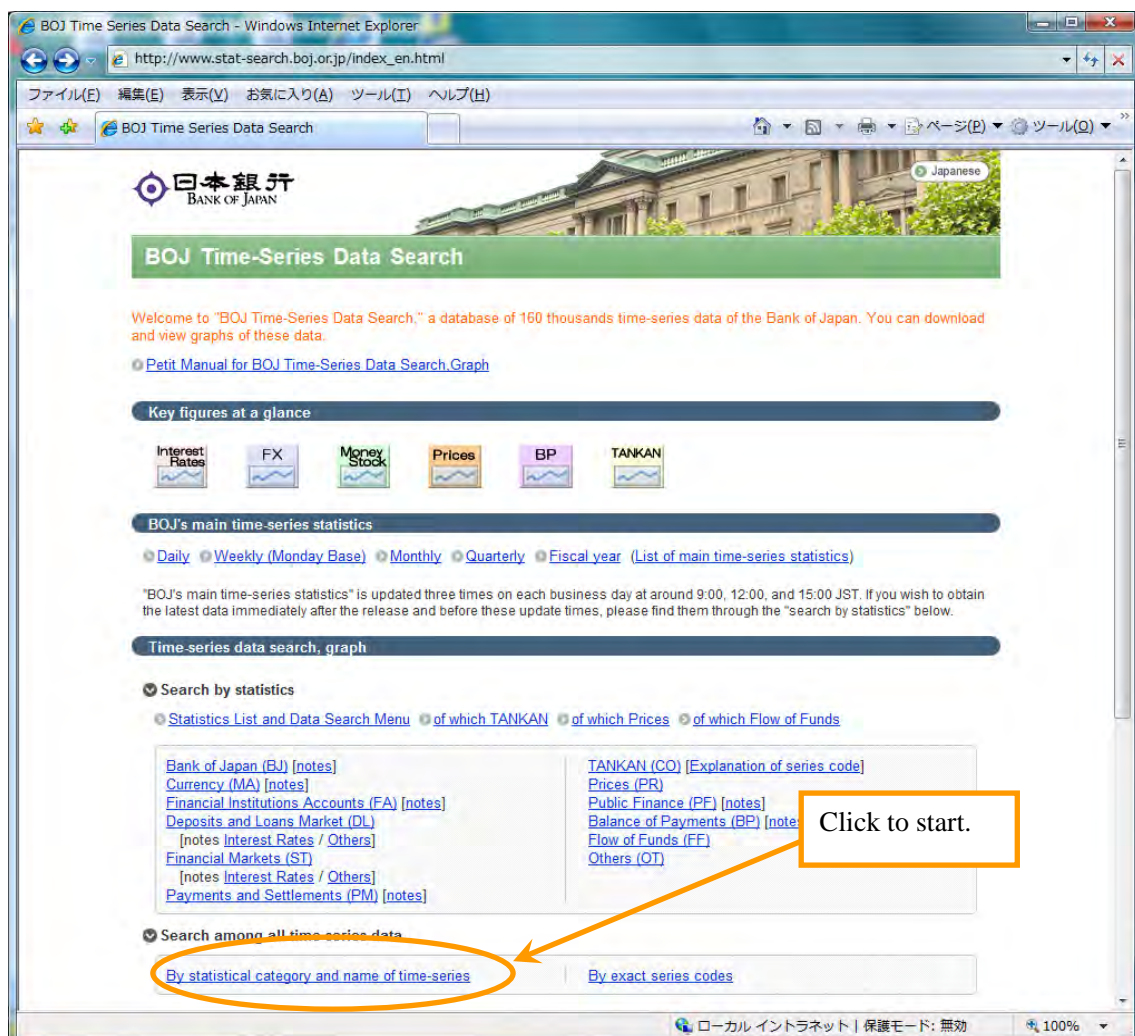


If you are going to use the same data codes from your next search, you can shorten the search process by using the saved list (see pages 13 for further details).

2. Search by keyword, for example, the name of the time series such as the effective exchange rate.

- (1) Click **By statistical category and name of time series** in **Search among all time-series data**, in the middle part of the BOJ Time-Series Data Search home page, to start searching for the specific data from all the data available from the website by using keywords.
- You can also find the data by using the keywords in the **Search by statistics** section. Click the link of the statistics in the section, then **By name of series** in the **Data Selection Menu**.

The BOJ Time-Series Data Search home page



- (2) The **Search Conditions** window and the **Data Selection by Statistical Category and Name of Time Series** window will open separately. In the latter, enter keyword(s) in the box in **Keyword** from the name of the time series, and click the **Search** button.

The Data Selection by Statistical Category and Name of Time Series window

Data selection by statistical category and name of time-series - Windows Internet Explorer

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Data selection by statistical category and name of time-series

1.Keyword in name of series

Effective Exchange Rates * Several keywords should be separated by space.

2.List of statistical categories

Monetary Base
Monetary Base and the BOJ's Transactions (Stock Table)
Basic Discount Rate etc.
BOJ Current Account Balances by Sector
Sources of Changes in Current Account Balances at the BOJ and Market Operations
Bank of Japan/Reserves
BOJ's Transactions with the Government

Cancel of choice

Filter * The list of categories can be narrow

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

Selection from the results
* For selecting several items, with pressing {Shift} or {Ctrl} key, click on an item. Note that the maximum number of series to be processed is 300.

Select all items

Number of items : 0
With being more than 1000, the first 1000 results are displayed above.

Select Clear Close Help

ページが表示されました ローカル イントラネット | 保護モード: 無効 100%

- (3) In **Selection from the results**, you will see a list of time series that contain the keyword(s) you entered. Highlight the specific items of the time series and click the **Select** button. The information on the selected time series will be transferred to and saved in the **Search Conditions** window, which should be left opened. Upon confirming that you have chosen all the necessary time series, close the **Data Selection by Statistical Category and Name of Time Series** window. Again, make sure to leave the **Search Conditions** window open.
- (4) Go back to the **Search Conditions** window and continue as shown in pages 8-9.

The Data Selection by Statistical Category and Name of Time Series window

The screenshot shows the 'Data selection by statistical category and name of time-series' window. The '1.Keyword in name of series' field contains 'Effective Exchange Rates'. The '2.List of statistical categories' section lists various categories. The 'Selection from the results' section shows a list of time series items, with the first item 'STFX180110001(Nominal/Effective Exchange Rates)' highlighted. The 'Select' button is circled in orange. A confirmation dialog box is open, showing the message 'Data Selection has been successful. To close the data selection window, please click on "OK"'. The 'OK' and 'キャンセル' (Cancel) buttons are circled in orange. Annotations with arrows point to these buttons and the 'Select' button.

Select and highlight items from the result list, and click **Select**.

Click to close the **Data Selection by Statistical Category and Name of Time Series** window and go back to the **Search Conditions** window.

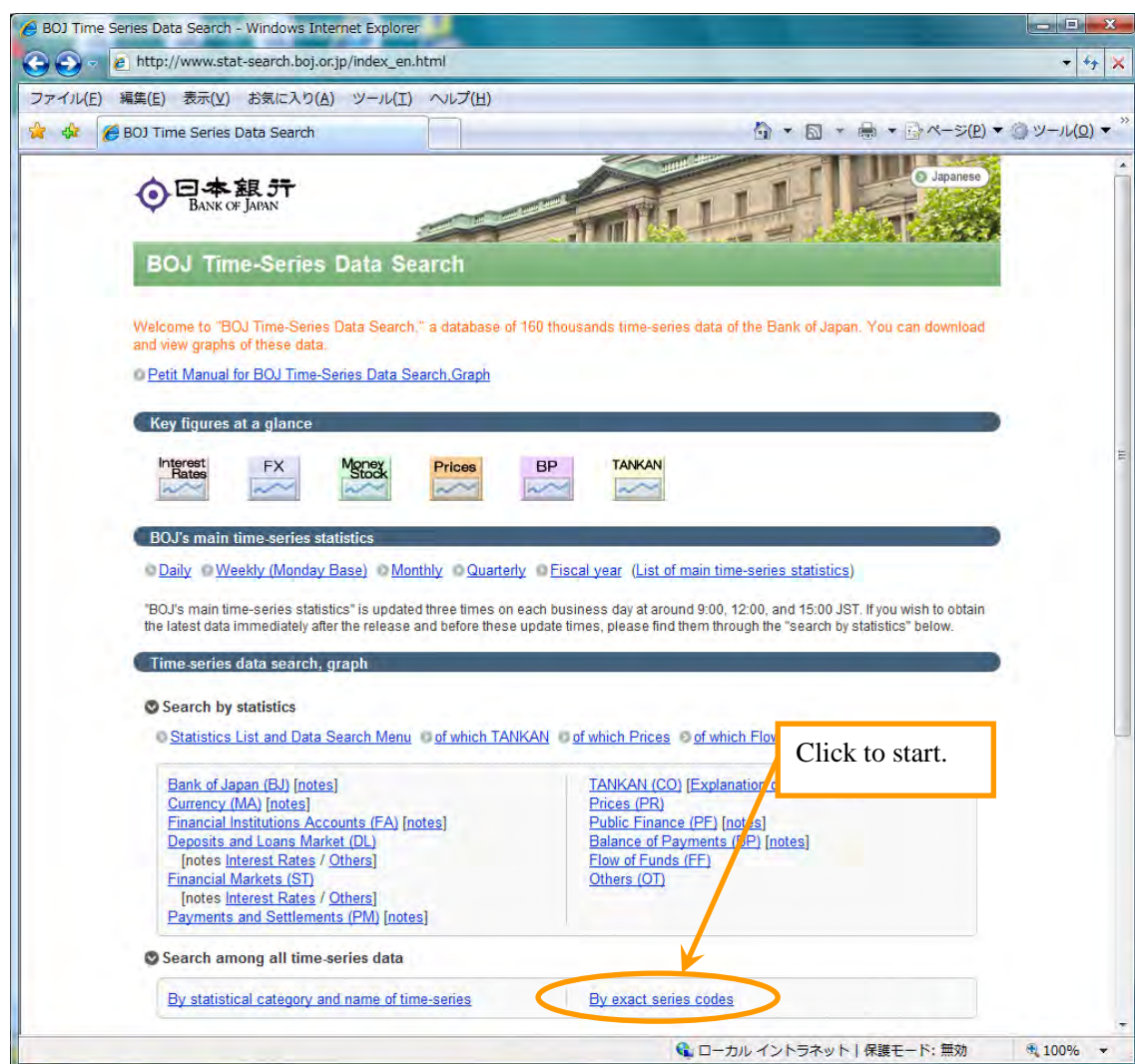
Click to go back to the **Data Selection by Database** window and add more time series.

3. Search by using data codes

This time-saving method avoids the need for repeated searches.

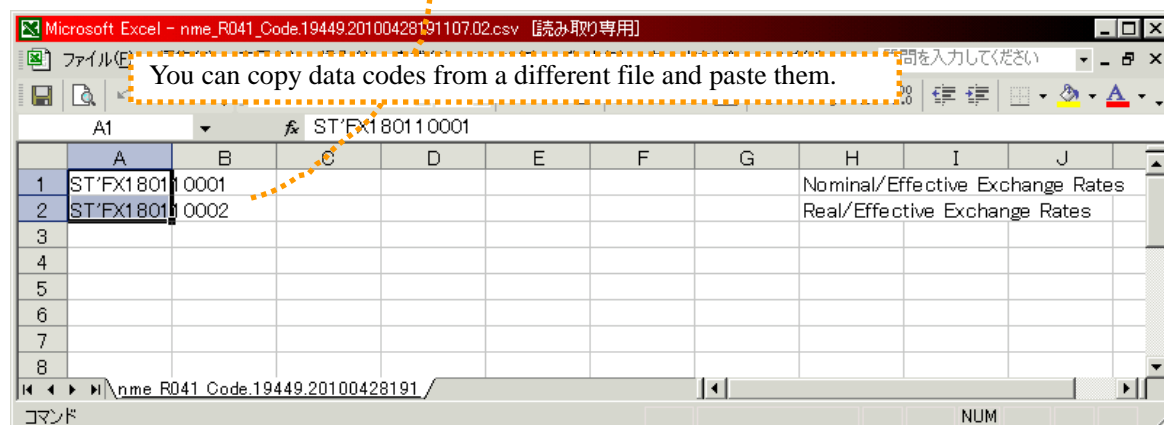
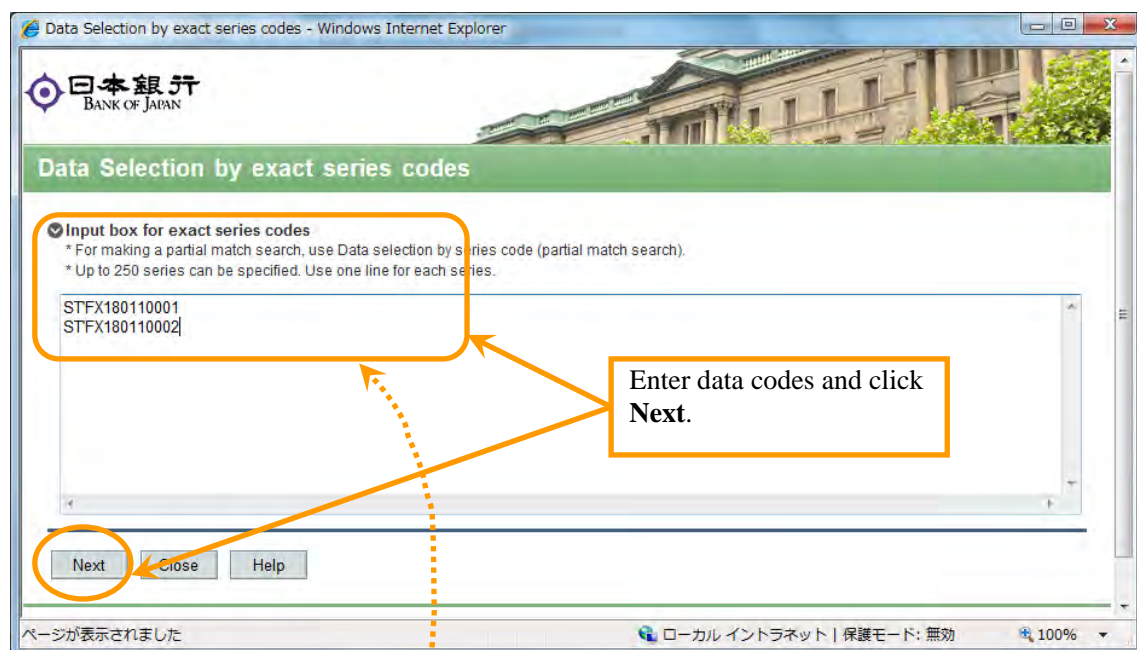
- (1) Click **By exact time-series codes** in **Search among all time-series data**, in the middle part of the BOJ Time-Series Data Search home page, to start searching for the specific data from all the data available from the website by using the time-series data codes you have already located.

The BOJ Time-Series Data Search home page



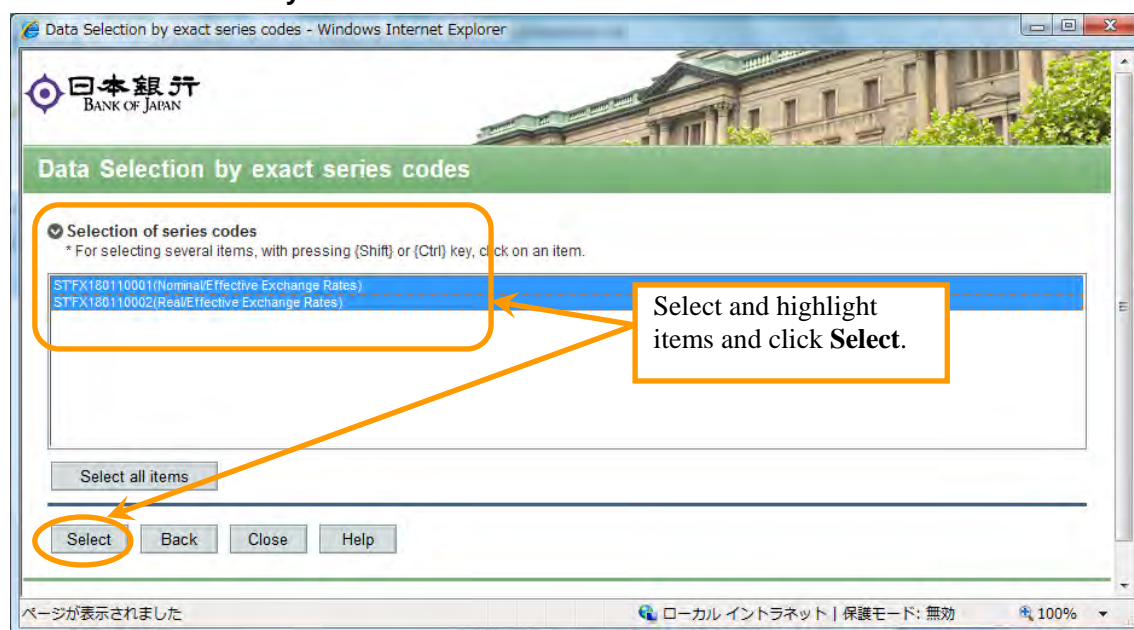
- (2) The **Search Conditions** window and the **Data Selection by Exact Series Codes** window will open separately. In the latter, enter the data codes correctly in the box in **Input box for exact series codes**, and click the **Next** button. Start a new line by pressing Enter if you enter more than one data code. You can copy the data codes from a different file and paste them in the box.

The Data Selection by Exact Series Codes window



- (3) In **Selection of series codes**, you will see the data codes you entered. Highlight the specific data codes and click the **Select** button. The information on the selected time series will be transferred to and saved in the **Search Conditions** window, which should be left opened. Upon confirming that you have chosen all the necessary time series, close the **Data Selection by Exact Series Codes** window. Again, make sure to leave the **Search Conditions** window open.
- (4) Go back to the **Search Conditions** window and continue as shown in pages 8-9.

The Data Selection by Exact Series Codes window



How to conduct an advanced search, for example, finding a customized set of time-series data.

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

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

1. TANKAN

In TANKAN, for example, the name of the time series regarding the business conditions D.I. of small enterprises in the retailing industry is "DI/Business Conditions/Small Enterprises/_Retailing/Actual result" or "DI/Business Conditions/Small Enterprises/_Retailing/Forecast." By using "Small Enterprises" and "Retailing" as keywords and searching from the list of all D.I. items, you can find all D.I. items other than "Business Conditions." The following is the specific search process.

- (1) In **Search by statistics** in the middle part of the BOJ Time-Series Data Search home page, click **TANKAN (CO)** to go to **Search Conditions**. Then, under the **Data Selection Menu**, click **By name of time series** to open the **Data Selection by Name of Time Series** window.
- (2) Under **Keywords from the name of the time series**, enter "DI," "Small," and "_Retailing" in the box and click the **Search** button. Place one space between each keyword.

The Data Selection by Name of Series window

Enter the keywords "DI," "Small," and "_Retailing" by separating them with spaces, and click **Search**.

(3) In **Selection of searched items**, you will see a list of time series that match the keyword(s).

By using "DI," "Small," and "_Retailing" as keywords, you will see a list of time series that contain all D.I. items regarding small enterprises in the retailing industry, e.g., not only for "Business Conditions" but also for "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," and "Conditions for CP Issuance."

The Data Selection by Name of Series window

Data Selection by name of series - Windows Internet Explorer

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Data Selection by name of series

☒ Keywords in the name of series

DI Small _Retailing

* Several keywords should be separated by space.

Search

☒ Selection of searched items

* For selecting several items, with pressing {Shift} or {Ctrl} key, click on an item. Note that the maximum number of series to be processed is 300.

CO/COAEF20240546CQ03000@(Liquidity/Number of Reporting Companies/Small Enterprises/_Retailing)
CO/COAEF20240546CQ03000@(Ratio of Liquidity/Small Enterprises/_Retailing)
CO/COAEF20240546CQ03000@(Forecast Judgments(D.I.)/Interest-bearing Debt Outstanding/Small Enterprises/_Retailing)
CO/COAEF20240546CQ03000@(Forecast Judgments(D.I.)/Level of Liquidity/Small Enterprises/_Retailing)
CO/COAEF20240546CQ03001@(Percentage Share/Interest-bearing Debt Outstanding/Small Enterprises/_Retailing/Answer 1)
CO/COAEF20240546CQ03001@(Percentage Share/Interest-bearing Debt Outstanding/Small Enterprises/_Retailing/Answer 3)
CO/COAEF20240546CQ03003@(Percentage Share/Level of Liquidity/Small Enterprises/_Retailing/Answer 1)
CO/COAEF20240546CQ03003@(Percentage Share/Level of Liquidity/Small Enterprises/_Retailing/Answer 3)
CO/COAEF20240546CQ03000@(Interest-bearing Debt Outstanding/Number of Reporting Companies/Small Enterprises/_Retailing)
CO/COAEF20240546CQ03000@(Level of Liquidity/Number of Reporting Companies/Small Enterprises/_Retailing)

Select all items

Number of items : 124
With being more than 1000, the first 1000 results are displayed above.

Select Clear Close Help

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(4) Click the **Select all items** button and highlight all the time series in the box, and click the **Select** button. Continue the search as shown in pages 8-9.

In TANKAN, you can also find customized sets of data about one specific industry from categories other than D.I., such as Annual Projections (including Sales, Personnel Expenses, Current Profits, and others). For instance, one example of the name of the time series 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." Therefore, the keywords for searching

such time series 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. In **Search by statistics** in the middle part of the home page, click **Flow of Funds (FF)** and continue the search. To find the list of time series regarding the amount outstanding of financial assets held by individual entities in a list, click **By name of time series** and use "Assets/Total" and "Stock" as keywords.

How to download data packages on price statistics, Flow of Funds, and TANKAN.

- By downloading flat files.

From **Prices, FOF, and TANKAN -- Flat Files Download** at the bottom part of the BOJ Time-Series Data Search home page, click **Go to Flat Files Download** and jump to the **Prices, FOF, and TANKAN -- Flat Files Download** window. Then click the file name to download.

The Prices, FOF, and TANKAN -- Flat Files Download window

Prices, FOF and TANKAN -- Flat Files Download

Single-click the right mouse button on a File Name, 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:\).

Statistics	File Name	File Format
Corporate Goods Price Index (CGPI)	cgpi.csv (1.5MB)	
Domestic Corporate Goods Price Index using chain-weighted index formula	cgpiren.csv (0.4MB)	Specification / Data List
Corporate Services Price Index (CSPI)	cspi.csv (0.2MB)	
Input-Output Price Index of the Manufacturing Industry by Sector (IOPi)	iopri.csv (3.0MB)	
Flow of Funds	fof.zip (2.6MB)	Specification / Data List
Flow of Funds (with name of time-series, etc.)	fof2_en.zip (1.0MB)	-----
TANKAN	co.zip (0.3MB)	Specification / Explanation of the series code of TANKAN

Click the file name to download.

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

Flat files of other statistics, e.g., Flow of Funds and TANKAN, are also available for downloading.

II. Graph Drawing

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

1. Viewing and using the graphs of the "Key figures at a glance"

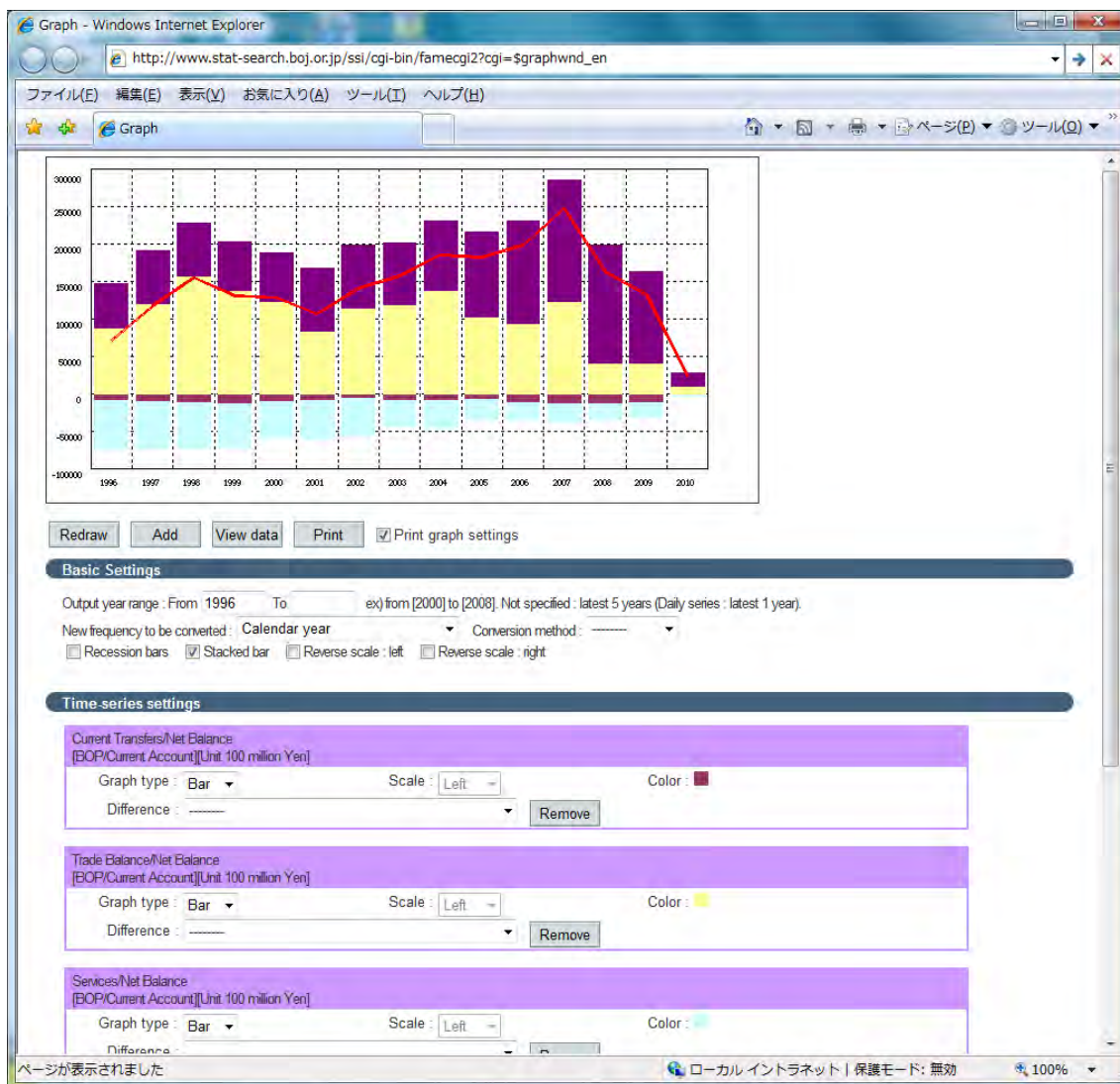
To view graphs of the latest data, click icons such as **Interest Rates**, **FX**, or **Money Stock** under **Key figures at a glance** in the upper part of the BOJ Time-Series Data Search home page.

For example, click the **BP** icon to view a graph image for the Balance of Payments, and graphs will appear.

The BOJ Time-Series Data Search home page



The Graph window



- To redraw these graphs, see pages 29.
- To print these graphs, see pages 44.
- To check the data regarding these graphs, see pages 47.

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

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

This can be done using either of two ways: select a list of time series, and click to display a graph image in default settings from the **Search Conditions** window; or search further on the selected time series and narrow down the data before displaying a graph image.

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

A. Display a graph image in default settings from the Search Conditions window

- (1) Click the category of the statistics you are looking for in **Search by statistics** to go to the **Search Conditions** window.

The BOJ Time-Series Data Search home page

The screenshot shows the BOJ Time-Series Data Search homepage in a Windows Internet Explorer browser. The page features the Bank of Japan logo and a green banner with the title "BOJ Time-Series Data Search". Below the banner, there is a welcome message and a link to the "Petit Manual for BOJ Time-Series Data Search Graph". A section titled "Key figures at a glance" displays icons for Interest Rates, FX, Money Stock, Prices, BP, and TANKAN. The "BOJ's main time-series statistics" section includes links for Daily, Weekly (Monday Base), Monthly, Quarterly, and Fiscal year. The "Time-series data search, graph" section has a "Search by statistics" option, which is highlighted with an orange box. Below this, there are two columns of links for various statistics. The "Balance of Payments (BP)" link is circled in orange. An orange arrow points from a text box to the "BP" link. Another orange box highlights the "Search by statistics" section, and a third orange box highlights the "Balance of Payments (BP)" link, with a text box explaining that clicking this link will draw a related graph.

Click the category of the statistics you are looking for.

For example, click **Balance of Payments (BP)** to draw a related graph.

(2) In the **Search Conditions** window, set the conditions for the time-series data for your graph.

- If you do not specify the frequency, the graph will be based on the same frequency as the time series in the database. If you choose time series with different frequencies, set the same frequency for all the time series.

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

The Search Conditions window

The screenshot shows the 'BOJ TIME-SERIES DATA SEARCH' window in Internet Explorer. The page title is 'Balance of Payments(BP)'. On the left is a 'Data Selection Menu' with links: 'By list of statistics', 'By name of series', 'By series code (partial match search)', and instructions: '1. Select time-series by Data Selection Menu above.', '2. Set search and output condition to the right, and search.' The main 'Search Conditions' section has three parts: 1. 'Search and output time-series' with a 'Selected time-series list' containing 'BPBPBPJYNCE(Current Account)', 'BPBPBPJYNTB(Trade Balance/Net Balance)', and 'BPBPBPJYNIN(Income/Net Balance)'. 2. 'Output year range' with 'From 2000' and 'To 2009' fields. 3. 'Frequency conversion' with 'New frequency to be converted' and 'Conversion method' dropdowns. At the bottom are buttons: 'Search', 'Graph', 'Clear', 'Back', and 'Help'. Annotations with orange boxes and arrows point to: the list of time series names, the year range fields, the frequency conversion section, and the 'Graph' button.

Confirm the list of the names of the time series.

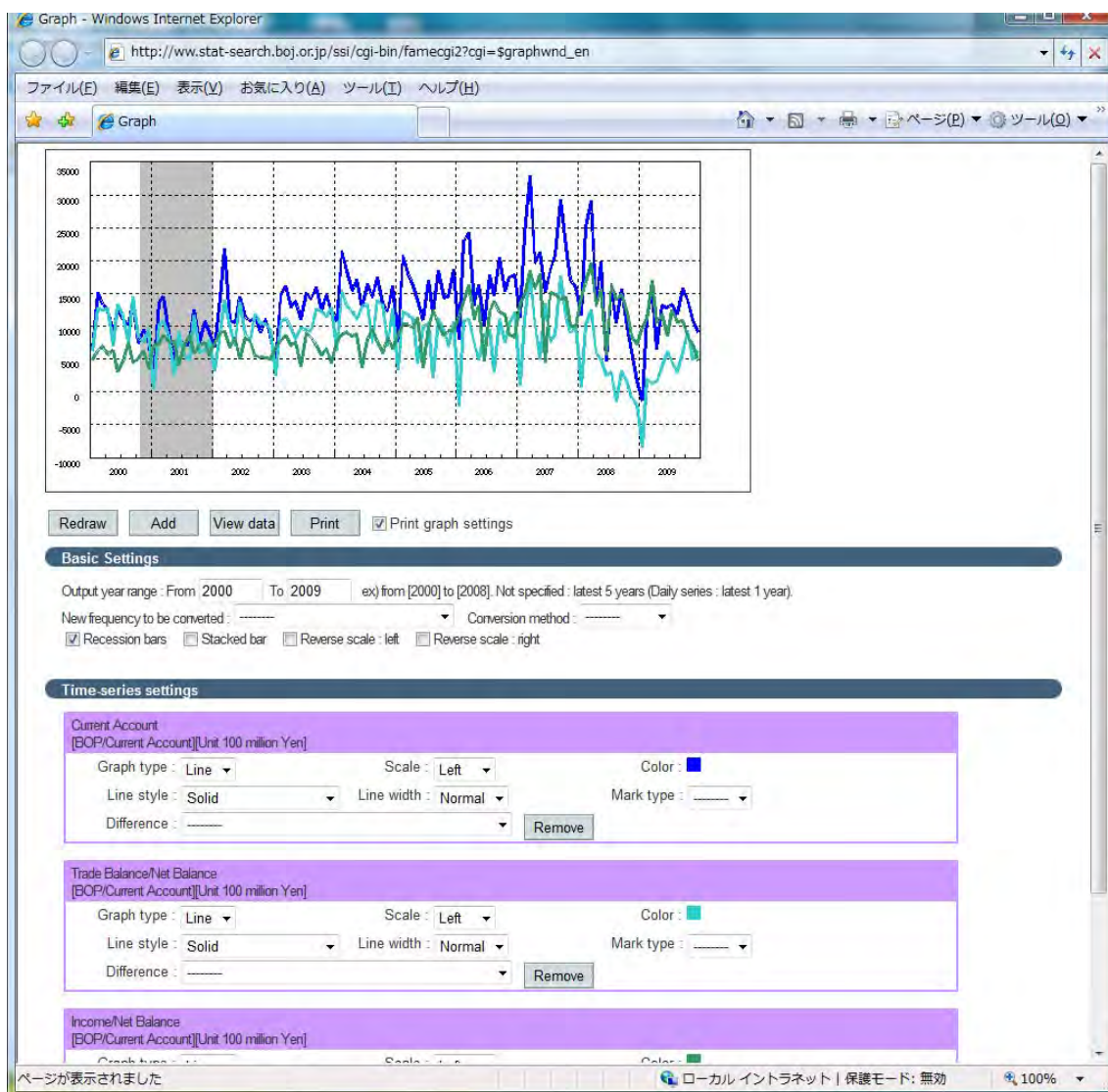
Enter the year range.

Specify the frequency.

Click **Graph**.

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

Three line graphs



→ To redraw these graphs, see pages 29.

B. Display a graph image after narrowing down the data

- (1) Click the category of the statistics you are looking for in **Search by statistics** to go to the **Search Conditions** window.
- (2) In the **Search Conditions** window, set the conditions for the time-series data for your graph.
 - If you do not specify the frequency, the graph will be based on the same frequency as the time series in the database. If you choose time series with different frequencies, set the same frequency for all the time series.
- (3) Click the **Search** button.

The Search Conditions window

The screenshot shows the 'BOJ TIME-SERIES DATA SEARCH' window in Internet Explorer. The page title is 'BOJ TIME-SERIES DATA SEARCH - Windows Internet Explorer'. The URL is 'http://www.stat-search.boj.or.jp/cgi-bin/famecgi2?cgi=\$nme_a000_en&stSelection=10'. The page features the Bank of Japan logo and a banner image of a building. The main content area is titled 'Balance of Payments(BP)' and contains a 'Data Selection Menu' on the left and a 'Search Conditions' section on the right. The 'Data Selection Menu' has links: 'By list of statistics', 'By name of series', 'By series code (partial match search)', and instructions: '1. Select time-series by Data Selection Menu above.', '2. Set search and output condition to the right, and search.' The 'Search Conditions' section has three main parts: 1. 'Search and output time-series' with a 'Selected time-series list' containing 'BPBPBPJYNCE(Current Account)', 'BPBPBPJYNTB(Trade Balance/Net Balance)', and 'BPBPBPJYNIN(Income/Net Balance)'. Below this are 'Add to the list' and 'Delete from the list' buttons. 2. 'Output year range' with 'From 2000' and 'To 2009' fields, and a note: 'Search and output series: 3. * Up to 250 time-series can be processed (Graph up to 18 time-series)'. 3. 'Frequency conversion' with 'New frequency to be converted' and 'Conversion method' dropdowns. At the bottom are buttons: 'Search', 'Graph', 'Clear', 'Back', and 'Help'. Annotations with orange boxes and arrows point to specific elements: 'Confirm the list of the names of the time series.' points to the 'Selected time-series list'; 'Enter the year range.' points to the 'From' and 'To' fields; 'Specify the frequency.' points to the 'New frequency to be converted' dropdown; and 'Click Search.' points to the 'Search' button.

BOJ TIME-SERIES DATA SEARCH - Windows Internet Explorer

http://www.stat-search.boj.or.jp/cgi-bin/famecgi2?cgi=\$nme_a000_en&stSelection=10

ファイル(E) 編集(E) 表示(V) お気に入り(A) ツール(I) ヘルプ(H)

BOJ TIME-SERIES DATA SEARCH

日本銀行
BANK OF JAPAN

Balance of Payments(BP)

Data Selection Menu

By list of statistics
By name of series
By series code
(partial match search)

1. Select time-series by Data Selection Menu above.
2. Set search and output condition to the right, and search.

Search Conditions

1. Search and output time-series

Selected time-series list

BPBPBPJYNCE(Current Account)
BPBPBPJYNTB(Trade Balance/Net Balance)
BPBPBPJYNIN(Income/Net Balance)

Add to the list Delete from the list

Search and output series: 3
* Up to 250 time-series can be processed (Graph up to 18 time-series)

2. Output year range

From 2000 To 2009
ex) from [2000] to [2008]. Not specified : latest 5 years (Daily series : latest 1 year).

3. Frequency conversion

New frequency to be converted Conversion method

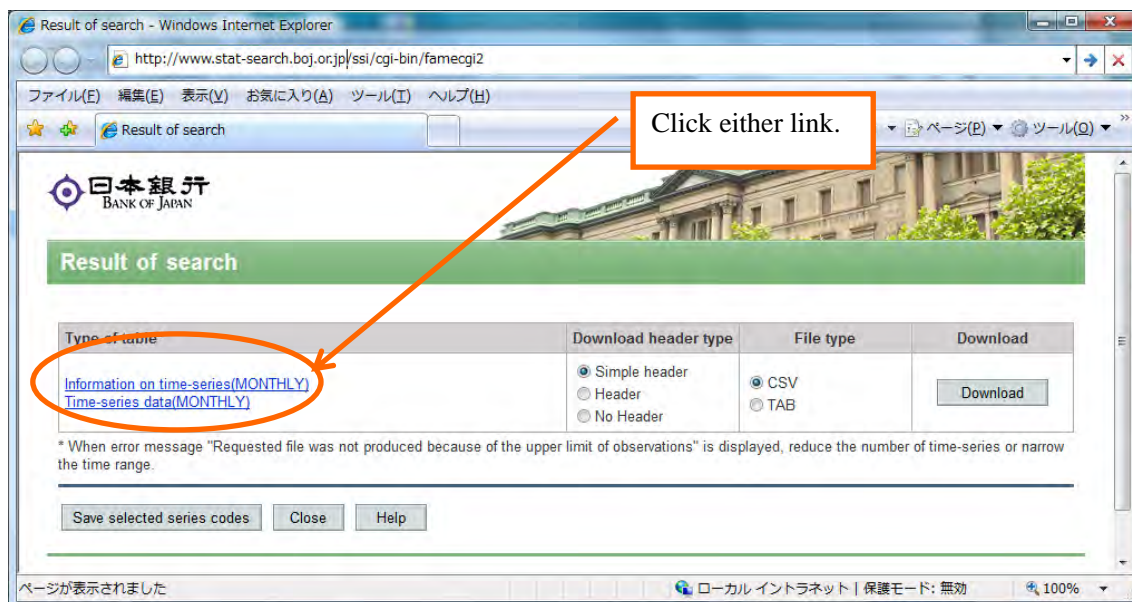
Some figures are published using digital

Search Graph Clear Back Help

Click Search.

- (4) In the **Results of Search** window, click **Information on time series** to check the information on the selected time series or **Time-series data** to check the data on the selected time series. After the specific data are confirmed, click the **Graph** button.

The Results of Search window



The Information on time-series data window

Result of search - Windows Internet Explorer
http://www.stat-search.boj.or.jp/ssi/html/nme_R010MM.5266.20100518203218.01.html

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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).

Series code <input checked="" type="checkbox"/>	BPBPBPJYNCB	Frequency	MONTHLY
Name of time-series	Current Account		
Statistical category	BOP/Current Account		
Start of the time-series	1996/01		
Notes			
Series code <input checked="" type="checkbox"/>	BPBPBPJYNTB	Frequency	MONTHLY
Name of time-series	Trade Balance/Net Balance	Conversion method	SUMMED
Statistical category	BOP/Current Account	Last update	2010/04/08
Start of the time-series	1996/01	Unit	100 million Yen
End of the time-series	2010/02		
Notes			
Series code <input checked="" type="checkbox"/>	BPBPBPJYNIN	Frequency	MONTHLY
Conversion method	SUMMED		

ページが表示されました

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100%

Select or clear the check boxes next to the series codes and click **Graph**. Only the graphs of the selected time series will be displayed.

The Time-series data window

Result of search - Windows Internet Explorer
http://www.stat-search.boj.or.jp/ssi/html/nme_R020MM.5266.20100518203218.01.html

日本銀行
BANK OF JAPAN

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"/> BPBPBPJYNCB Current Account	<input checked="" type="checkbox"/> BPBPBPJYNTB Trade Balance/Net Balance	<input checked="" type="checkbox"/> BPBPBPJYNIN Income/Net Balance
2000/01	6590	6292	4944
2000/02	15063	12759	6243
2000/03	13414	12126	7013
2000/04	12450	12126	
2000/05	8843	7094	
2000/06	12578	13244	
2000/07	11063	11554	
2000/08	10216	7560	
2000/09	13621	14471	
2000/10	7457	8345	5120
2000/11	9499	7555	6286
2000/12	7960	9693	3555

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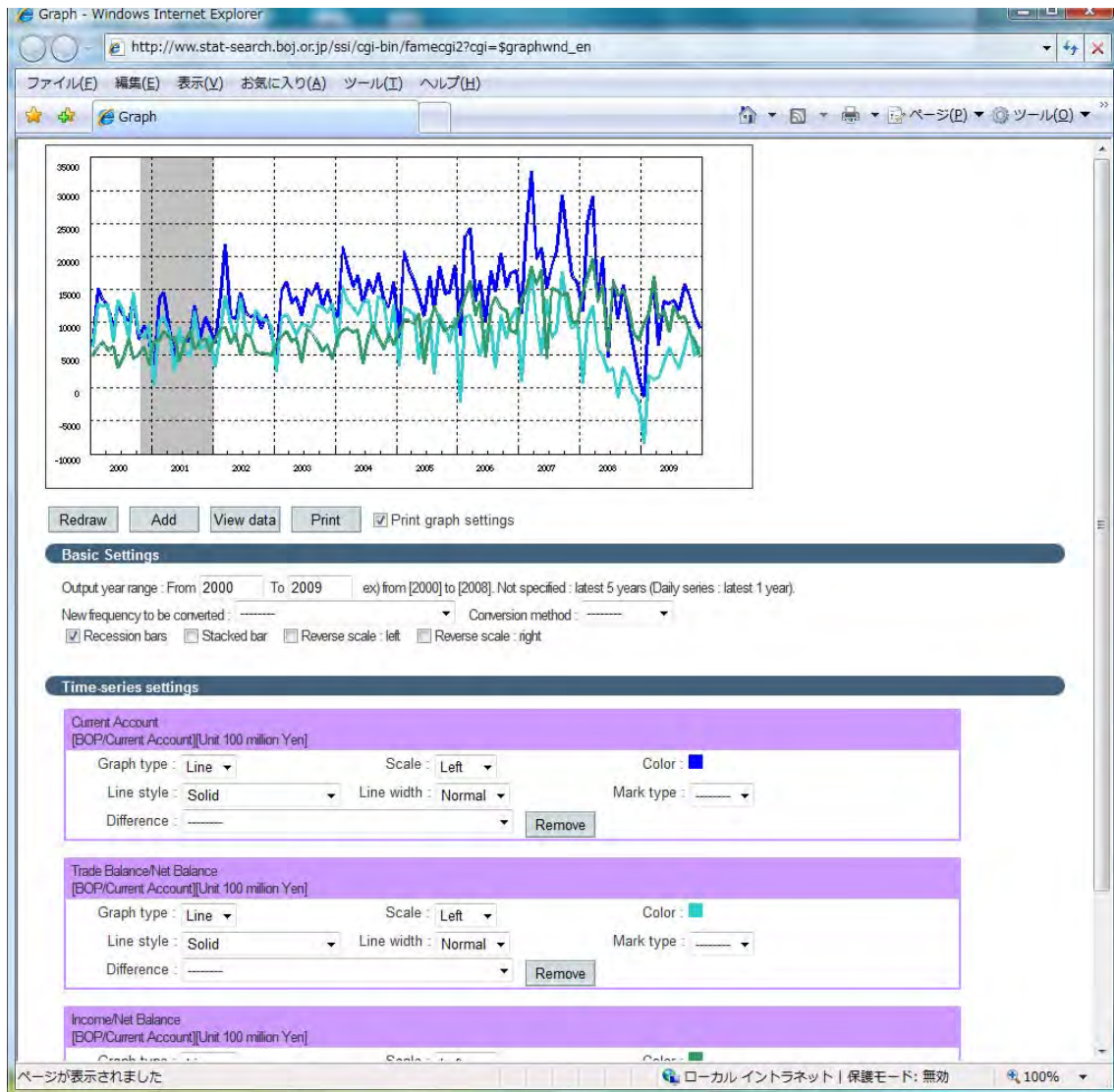
100%

Select or clear the check boxes next to the series codes and click **Graph**. Only the graphs of the selected time series will be displayed.

By clicking either the **Time-series data** button or **Information on time-series data** button, you can switch the two windows.

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

Three line graphs



3. Redrawing graphs

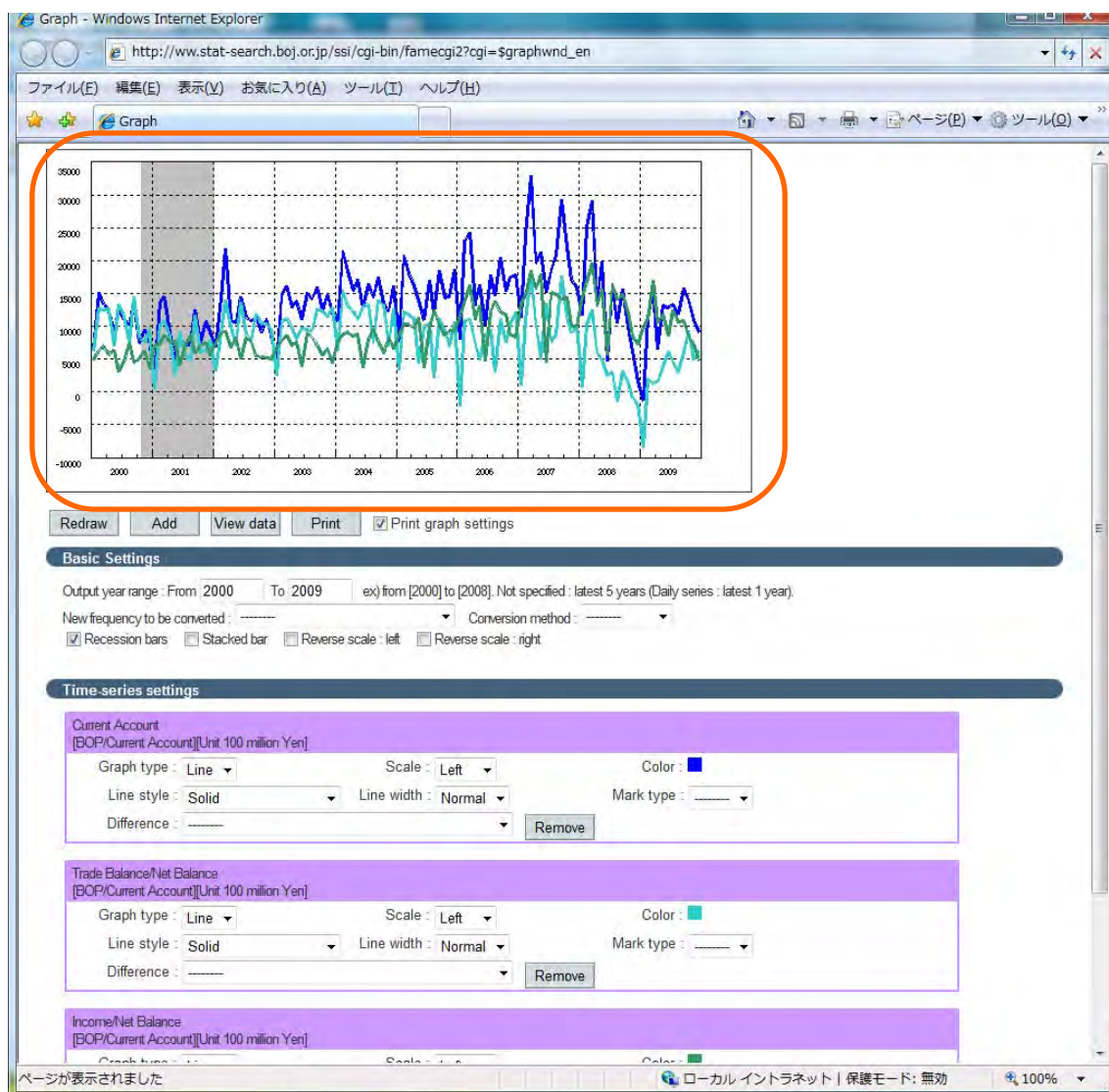
You can redraw graphs you have drawn for **Key figures at glance** as shown on pages 20, or for your customized set of time-series data as shown on pages 22.

A. Change the type of graphs

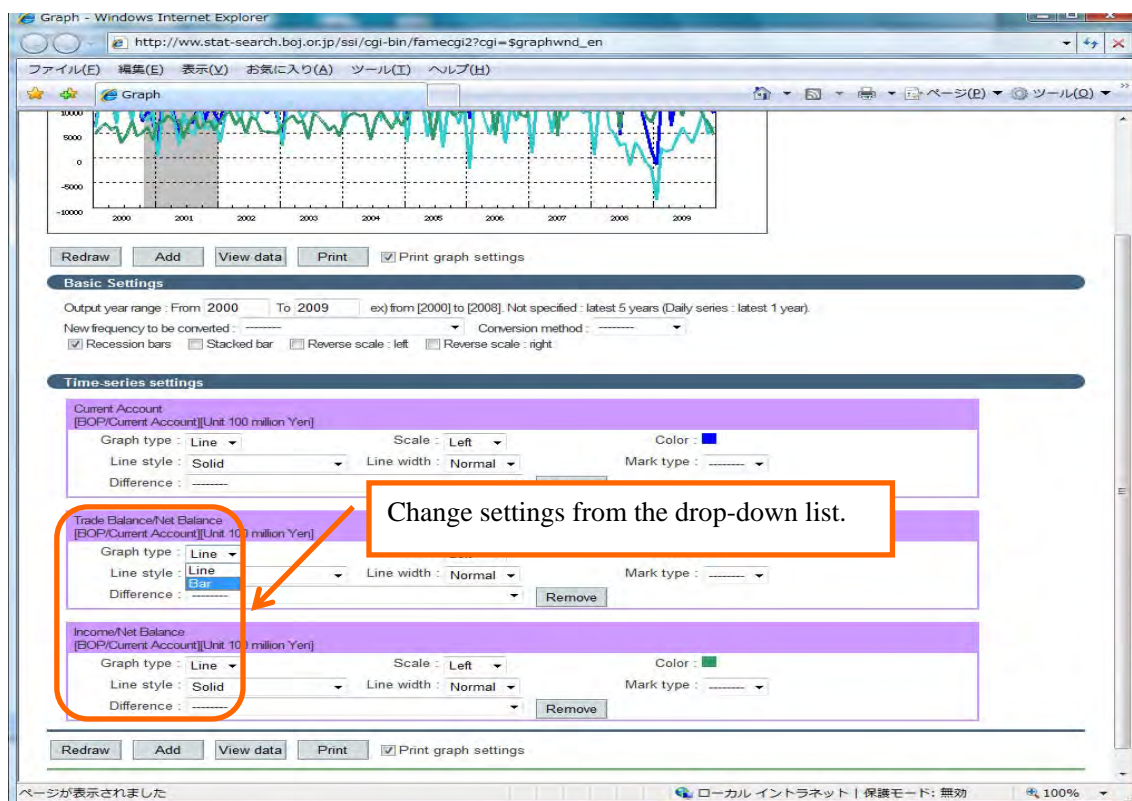
To change the type of your graphs, go to **Basic settings** and/or **Time-series settings**.

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

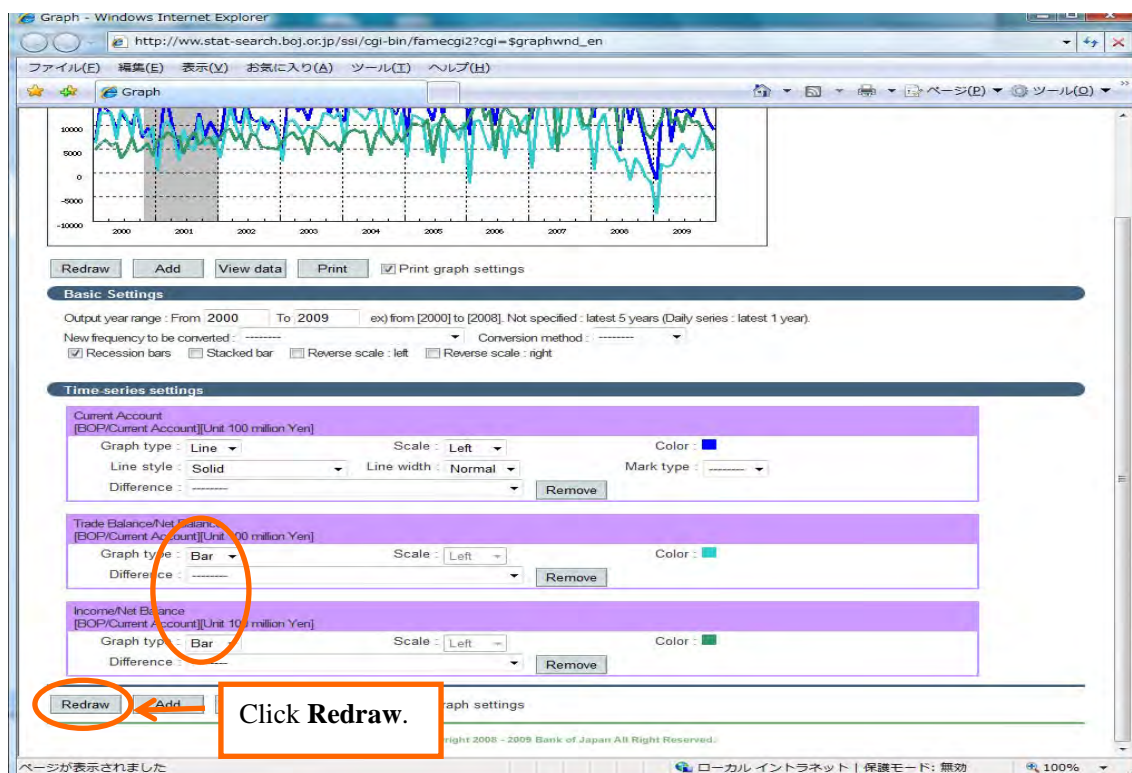
Three line graphs



- (1) In **Time-series settings**, change the **Graph type** of the two items selected, **Trade Balance/Net Balance** and **Income/Net Balance**, from **Line** to **Bar** from the drop-down list.

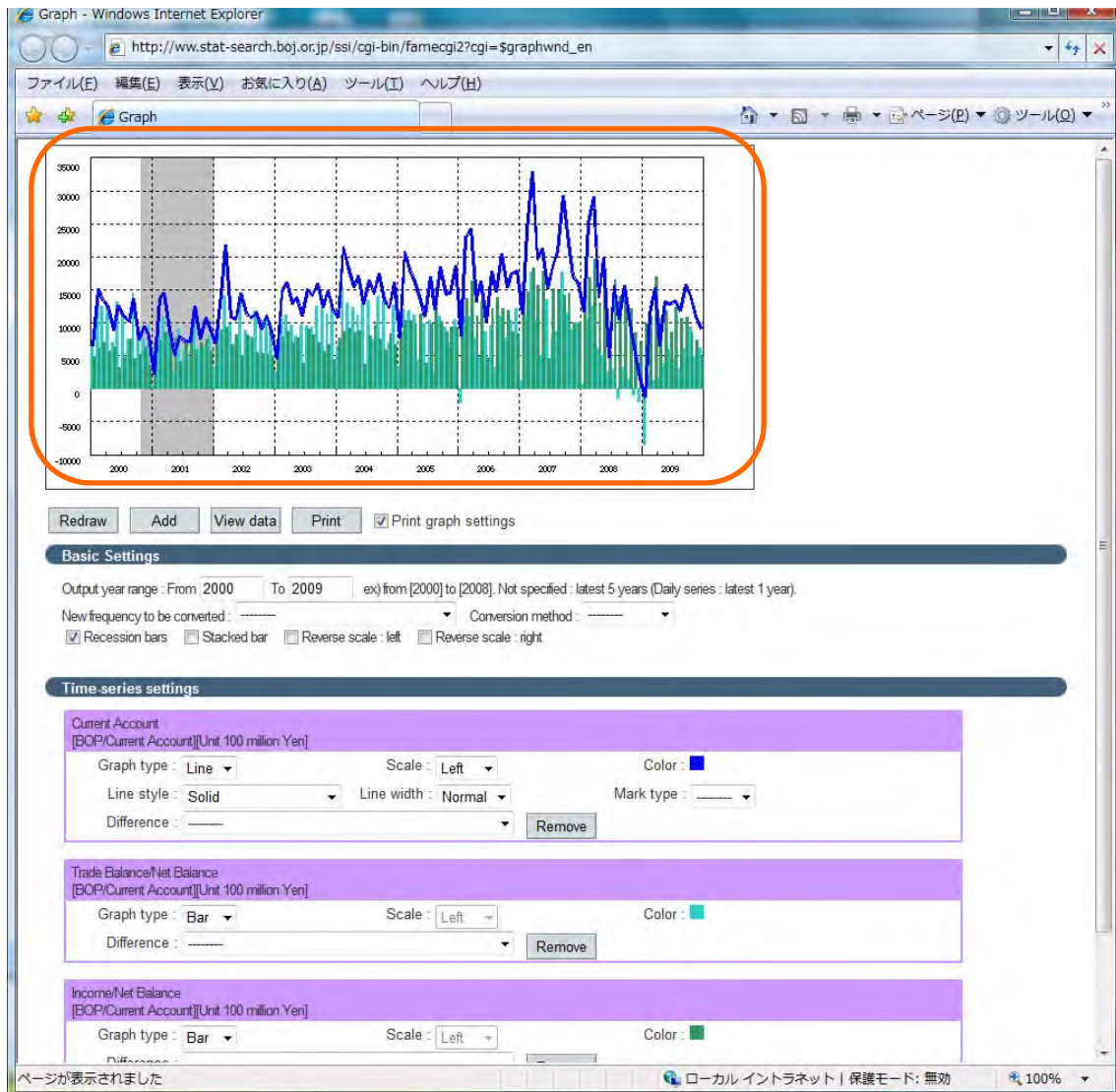


- (2) After making the change, click the **Redraw** button.



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

One line graph and two bar graphs



- 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 **Time-series settings**.

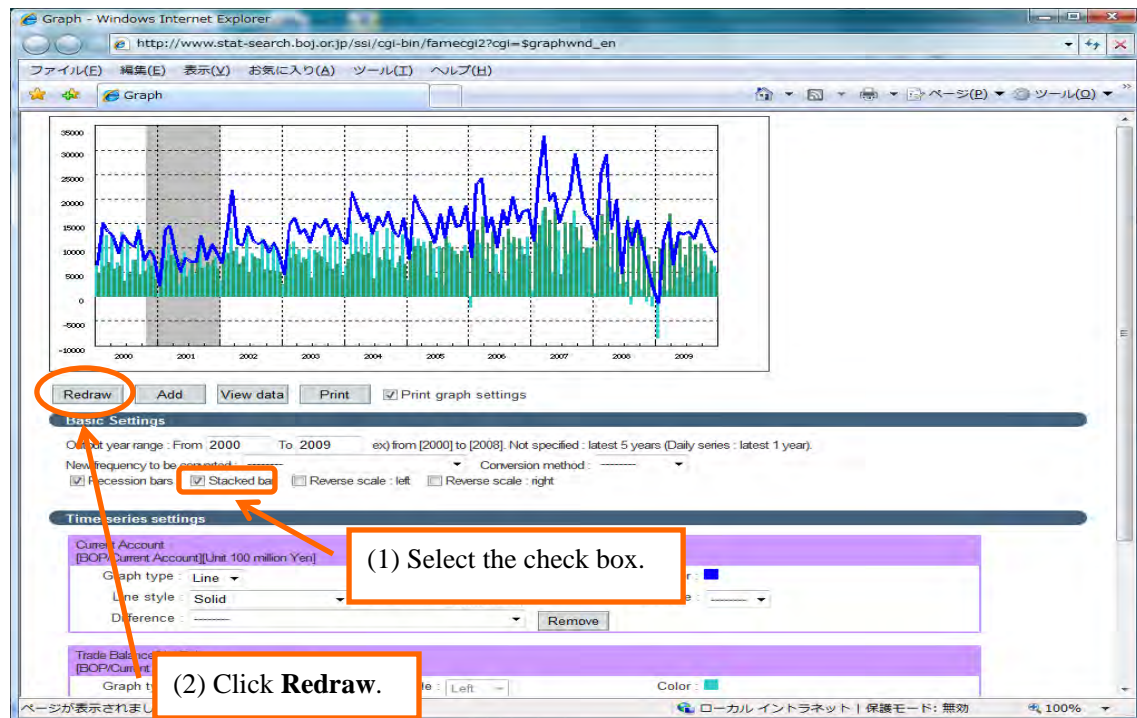
The next example explains how to change from "one line graph and two bar graphs" to "one line graph and one stacked bar graph."

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

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

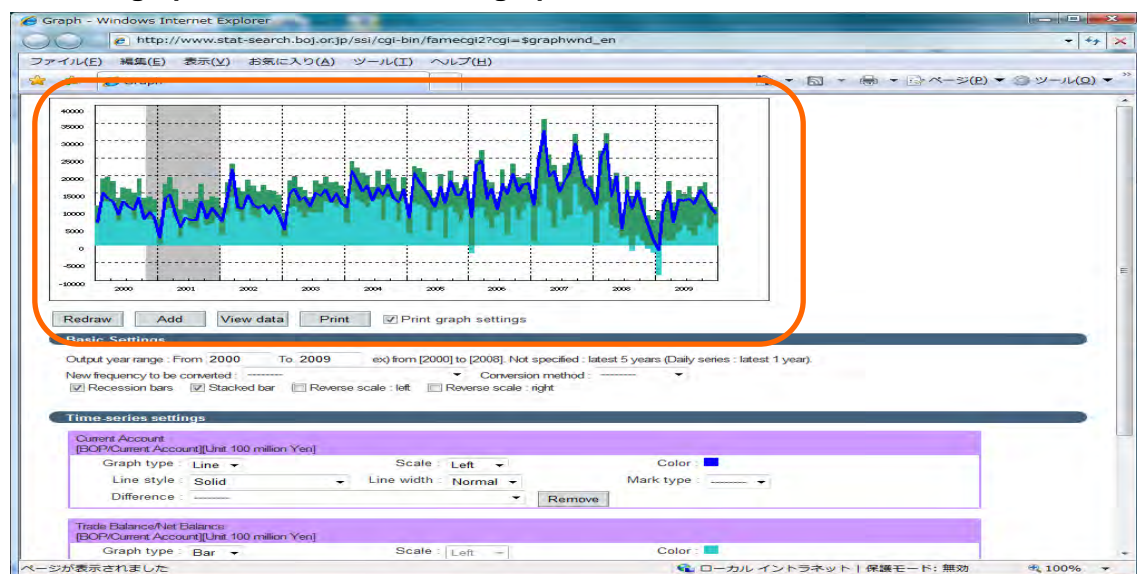
(2) Click the **Redraw** button.

One line graph and two bar graphs



(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 listed in **Time-series settings**.

One line graph and one stacked bar graph

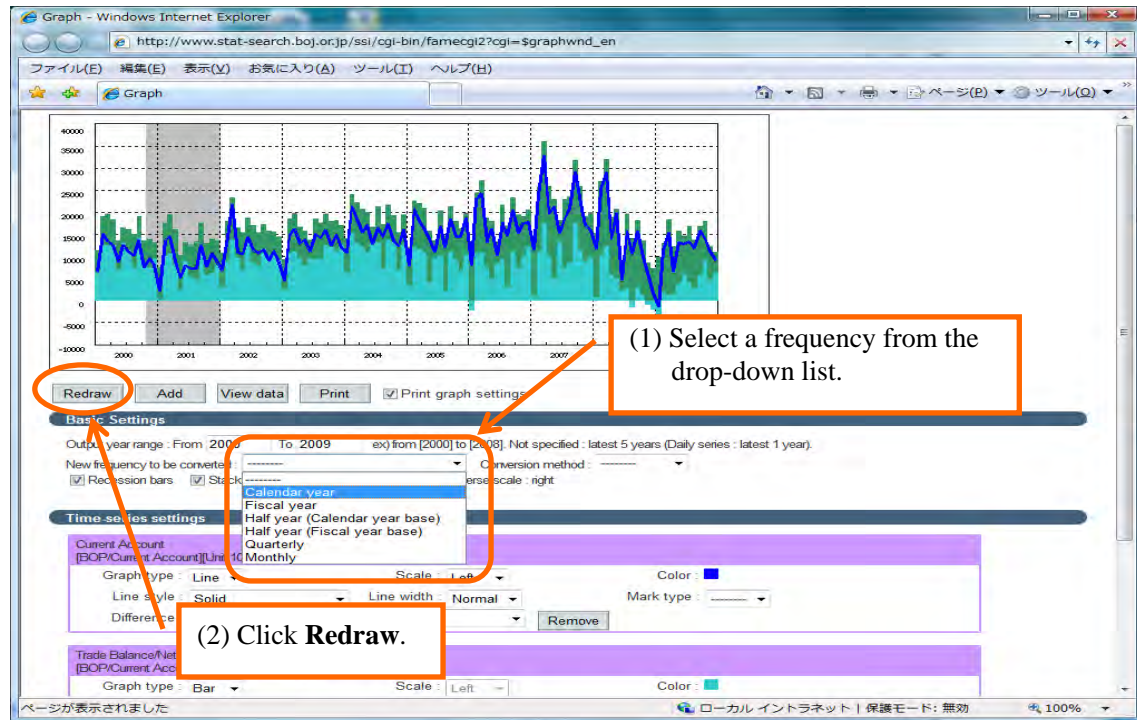


B. Change the frequency of graphs

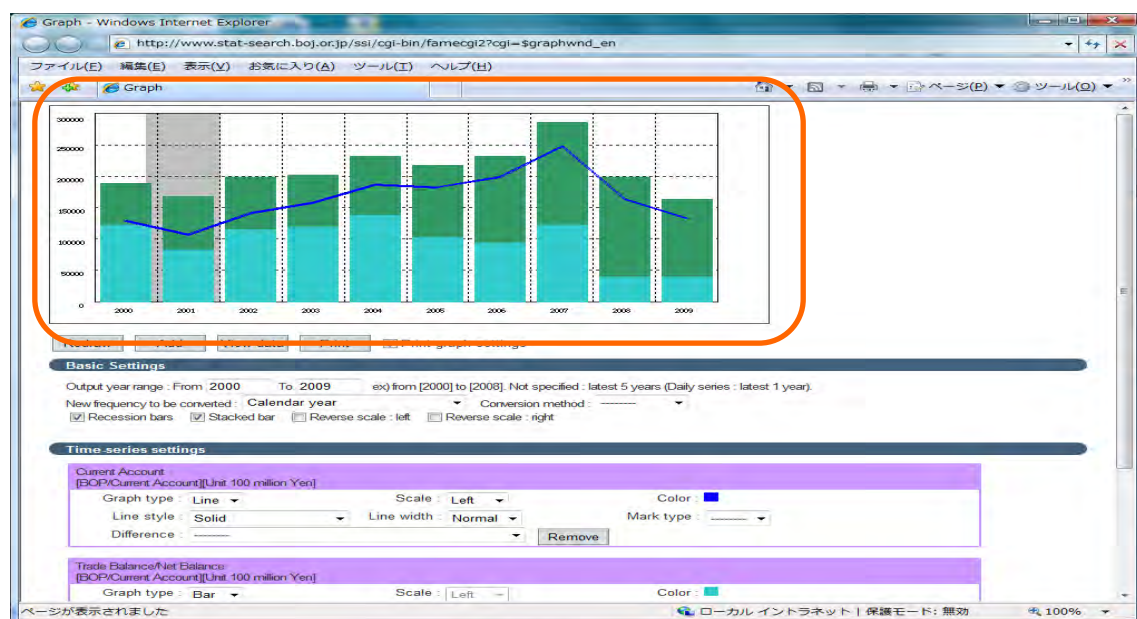
To change the frequency of your graphs, go to **Basic settings**.

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

Monthly



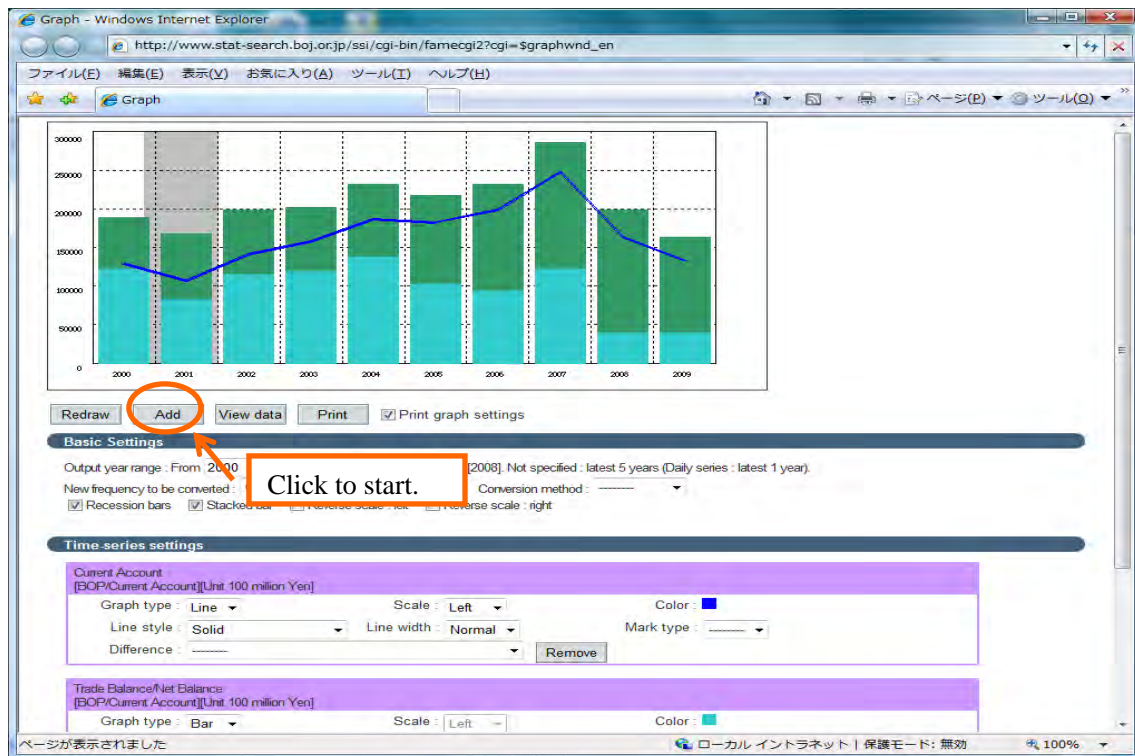
- (3) The graph with the new frequency will be displayed. In this example, the frequency is changed from **Monthly** to **Calendar year**.

Calendar year

C. Add new time series

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

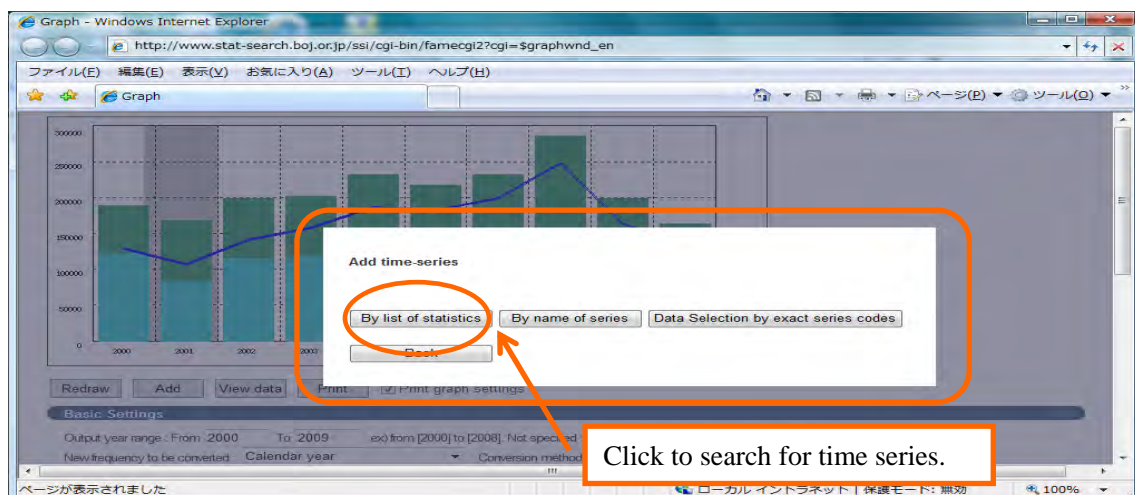
(1) In the **Graph** window, click the **Add** button.



(2) The **Add time series** window will appear. Choose the method of searching for the new time series.

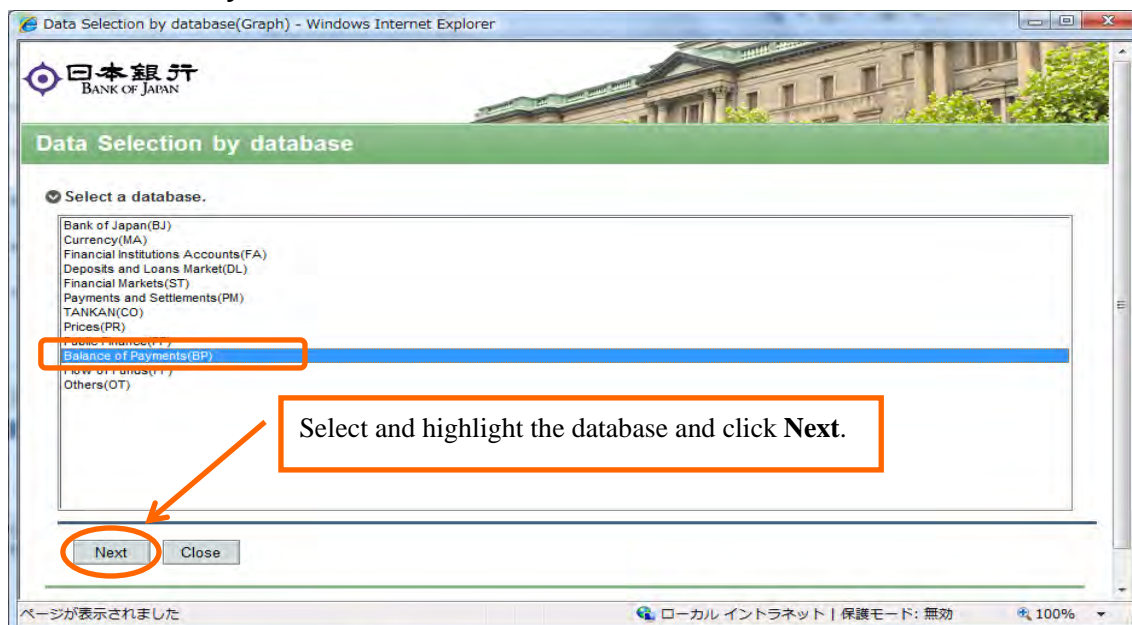
- Time series can be searched by list of statistics, by name of series, and by exact series codes as shown on pages 4. The explanation below employs the method of searching by list of statistics.

Add time series window



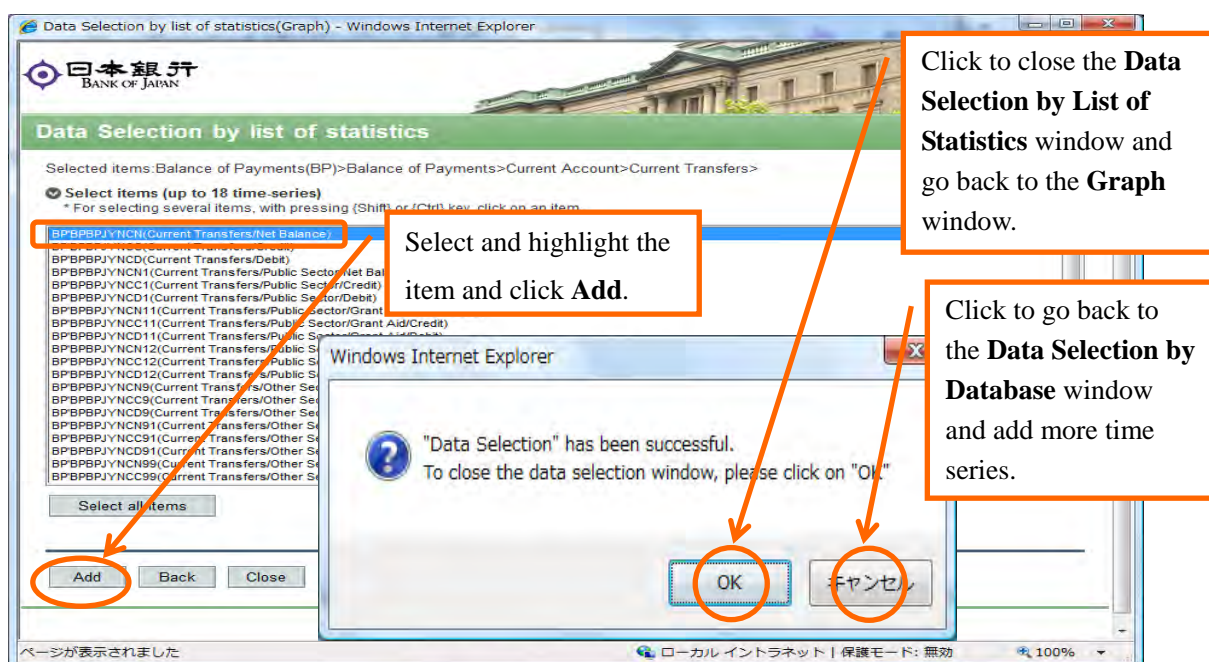
- (3) In the **Data Selection by Database** window, select and highlight the category of statistics, or the database, that include the time series you are looking for, and click the **Next** button.

Data Selection by Database window

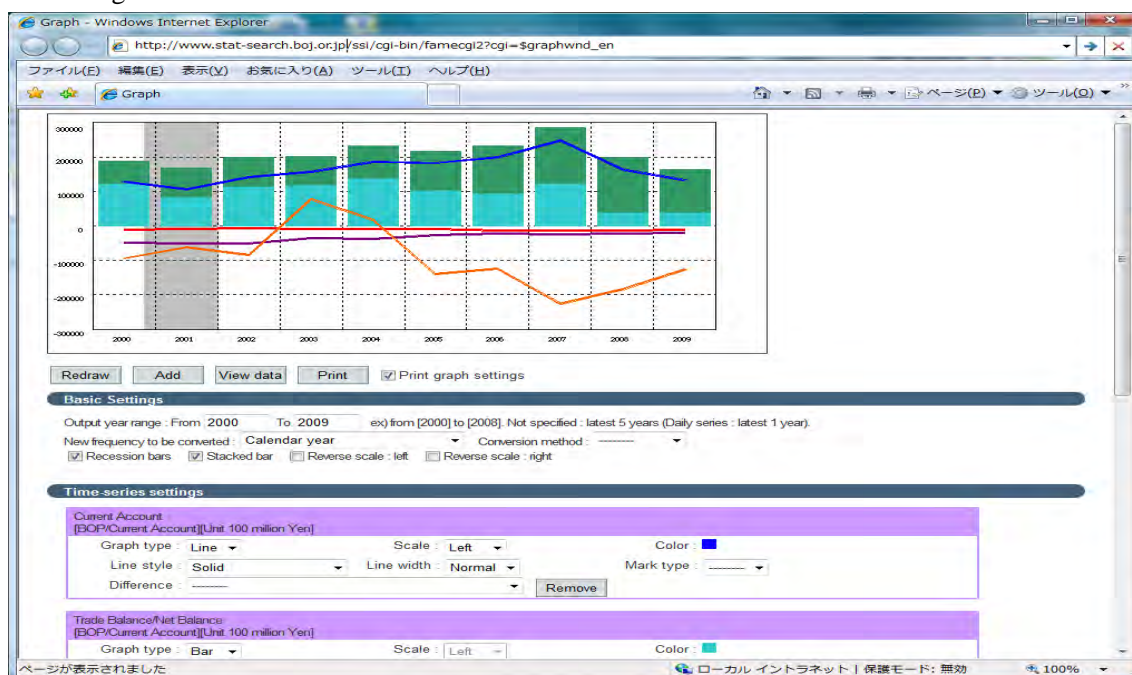


- (4) In the **Data Selection by List of Statistics** window, select and highlight the specific item of the time series and click the **Add** button. After the information on the selected item has been transferred to the **Graph** window, a dialog window will appear and tell you that data transfer was successful.
- If the frequencies of the newly added time series and the time series already included in the **Graph** window differ, all the frequencies will be automatically converted to the longest frequency.

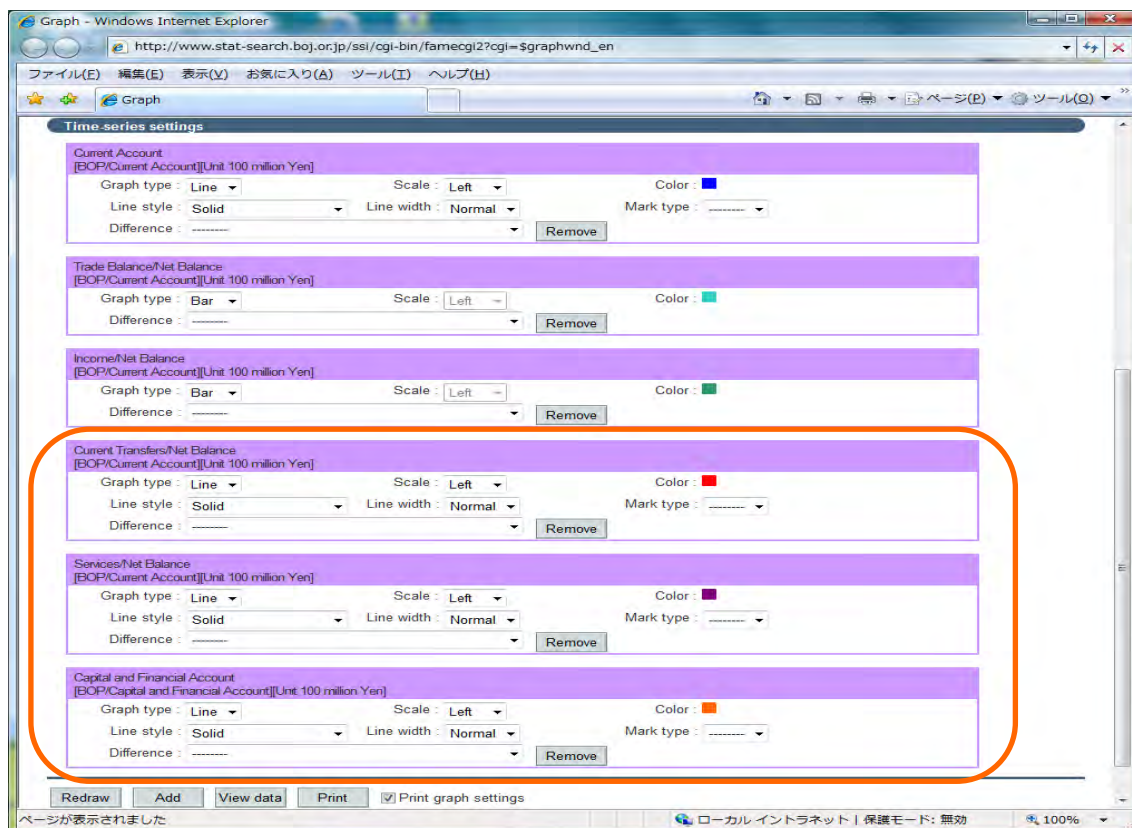
Data Selection by List of Statistics window



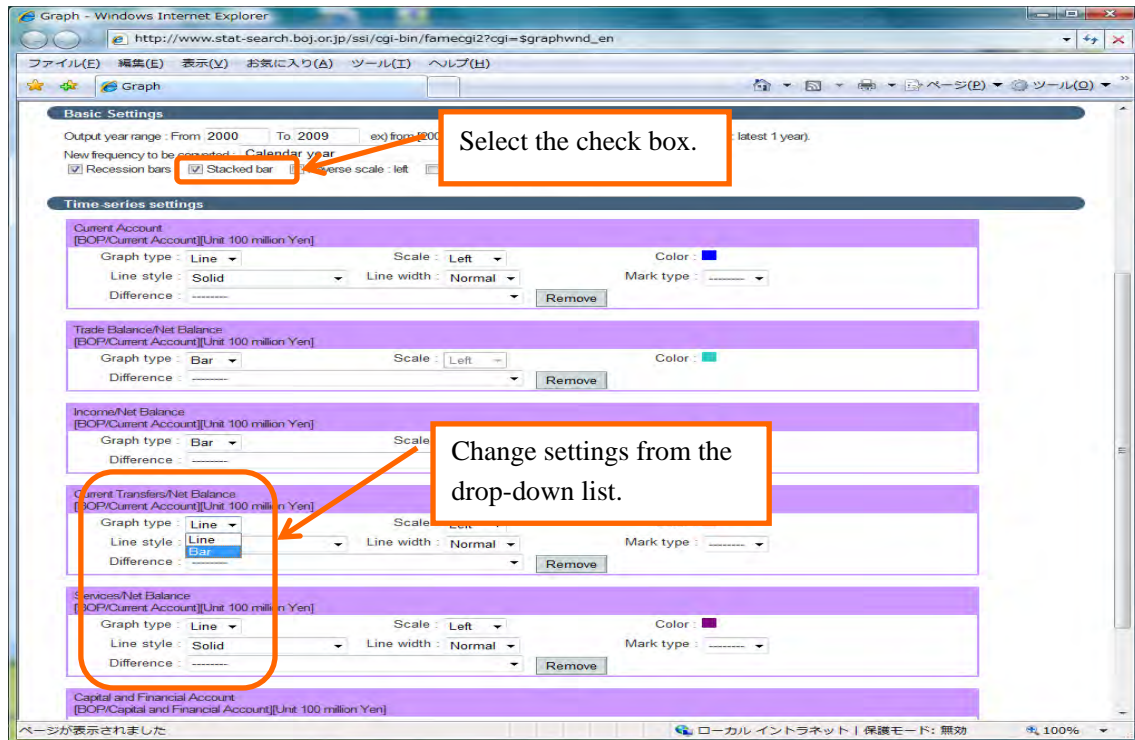
- (5) In the **Graph** window, the newly added time series will appear as line graphs, which are in default settings.



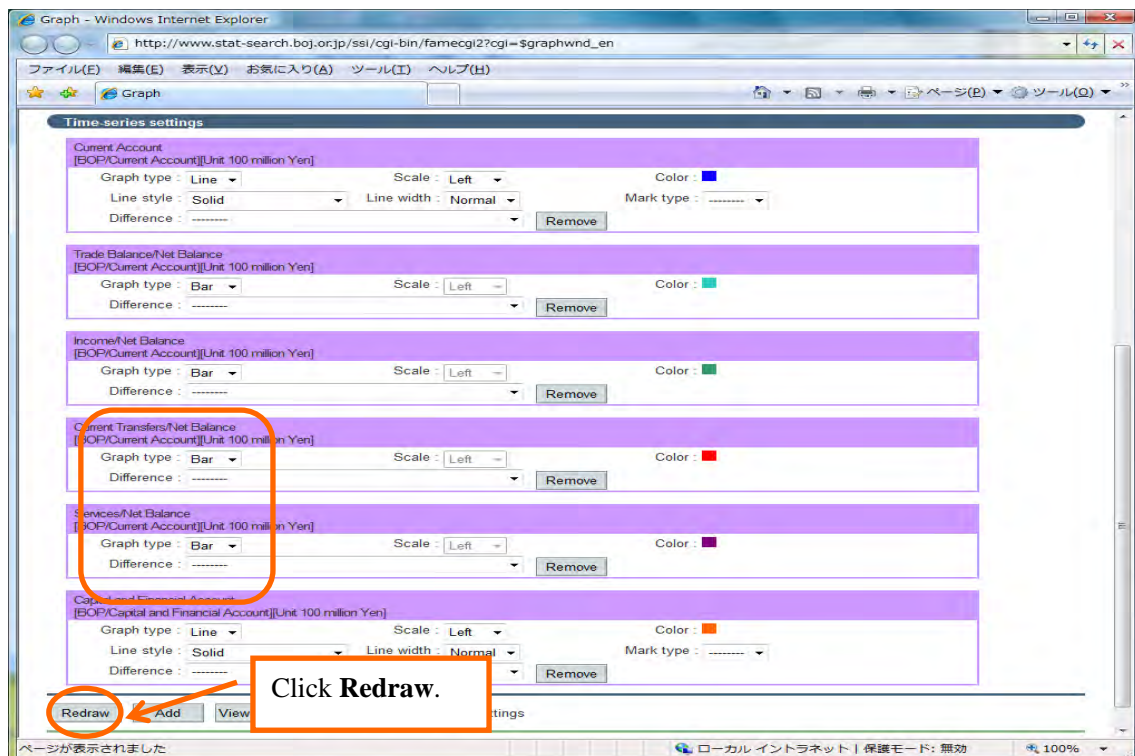
- (6) Confirm the information on the newly added time series listed at the bottom part of **Time-series settings**.



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

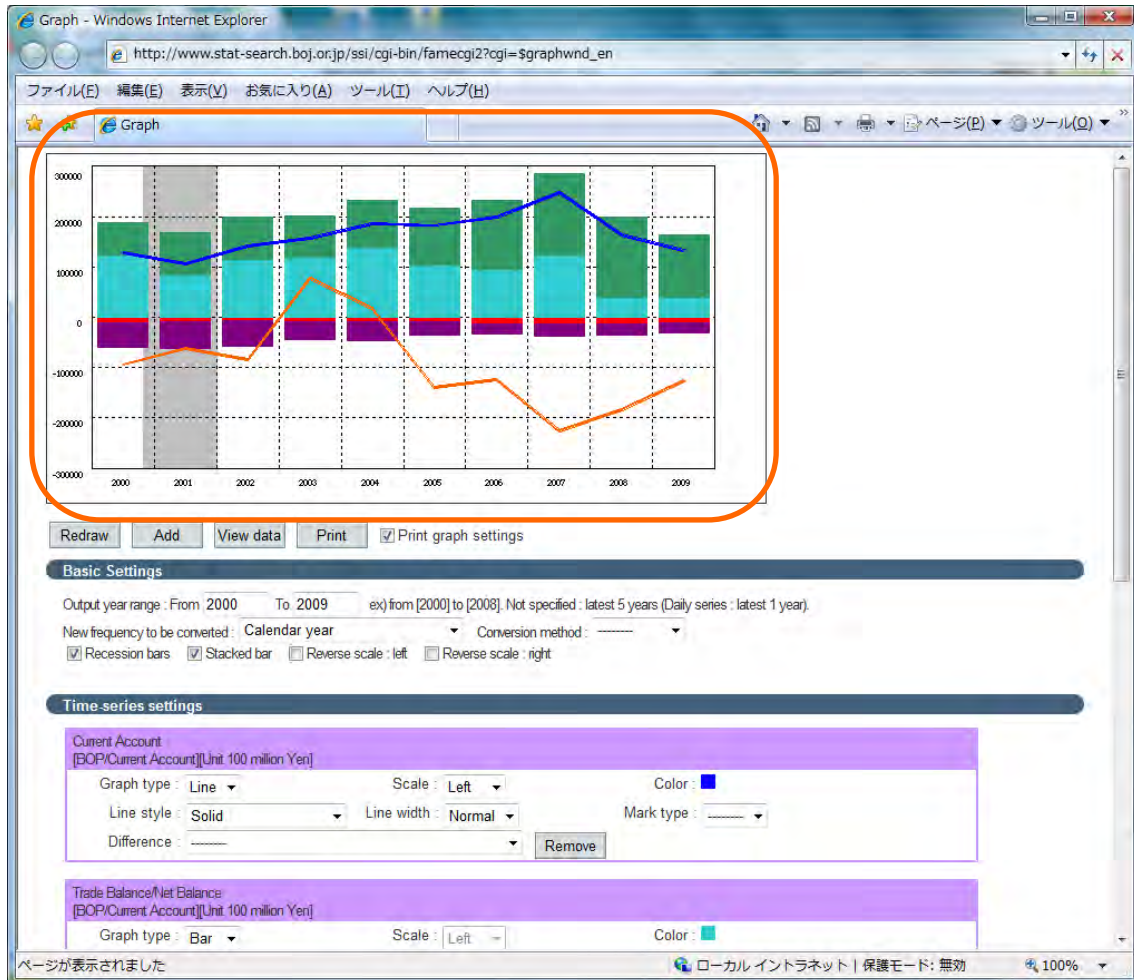


- (8) After making the change, click the **Redraw** button.



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

Two line graphs and one stacked bar graph

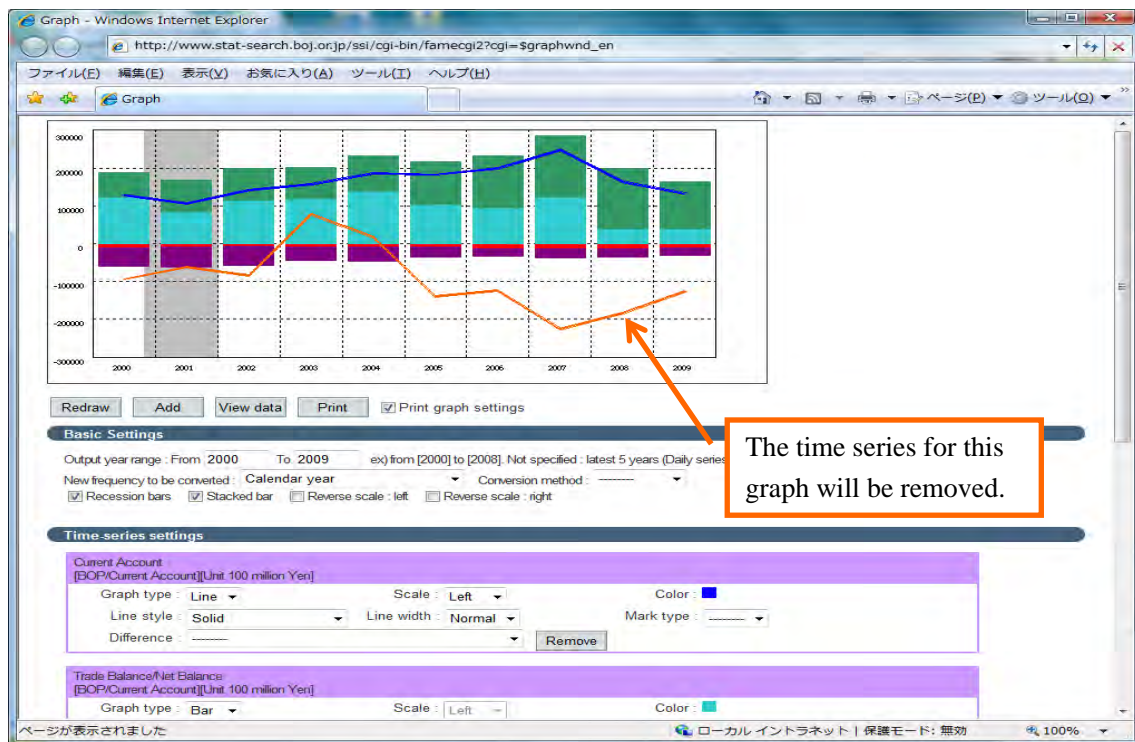


D. Remove time series

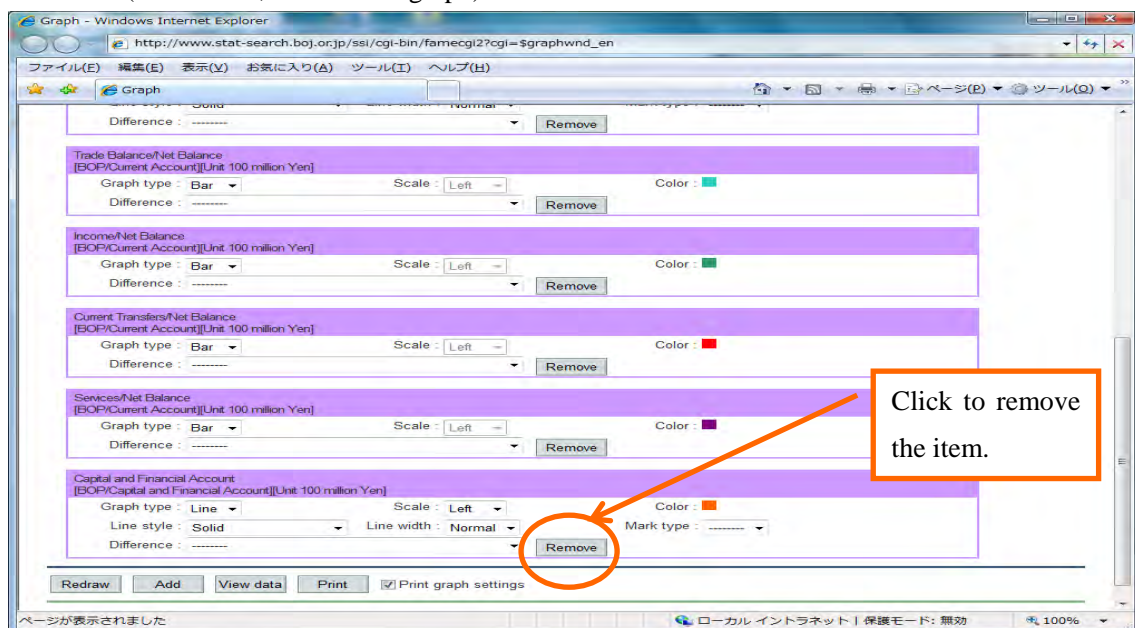
You can remove time series from your list of customized set of data and the graph image.

The example below explains how to remove a time-series item shown in one line graph.

Two line graphs and one stacked bar graph

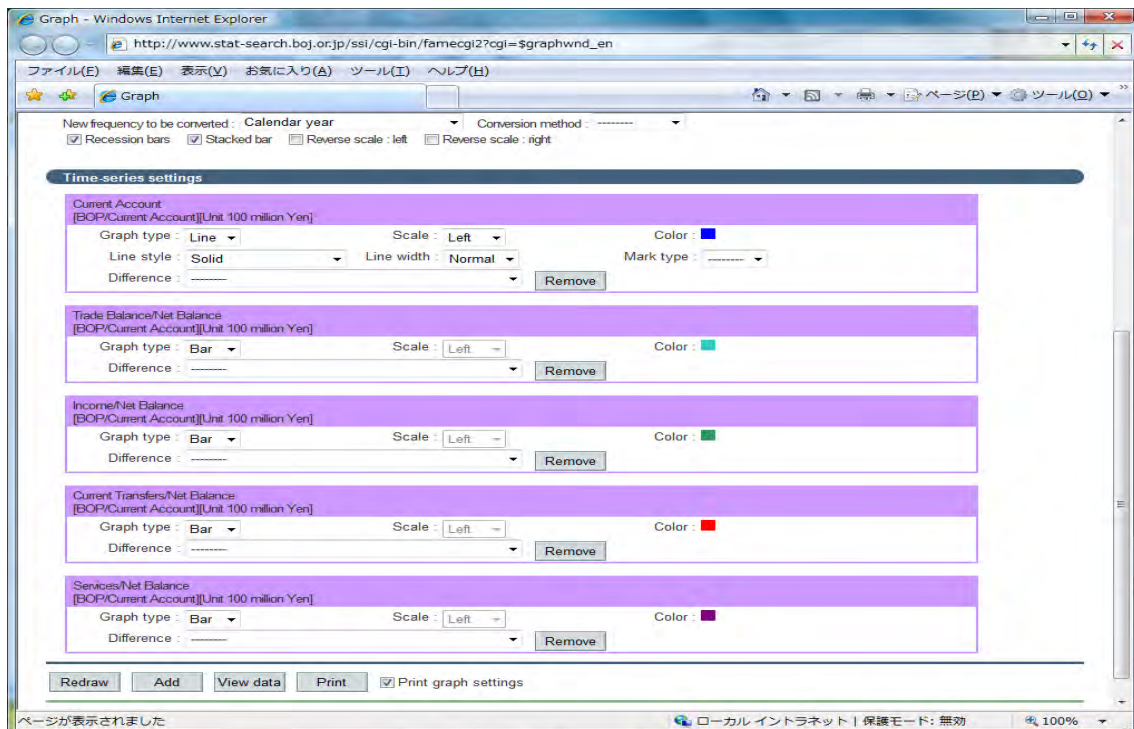
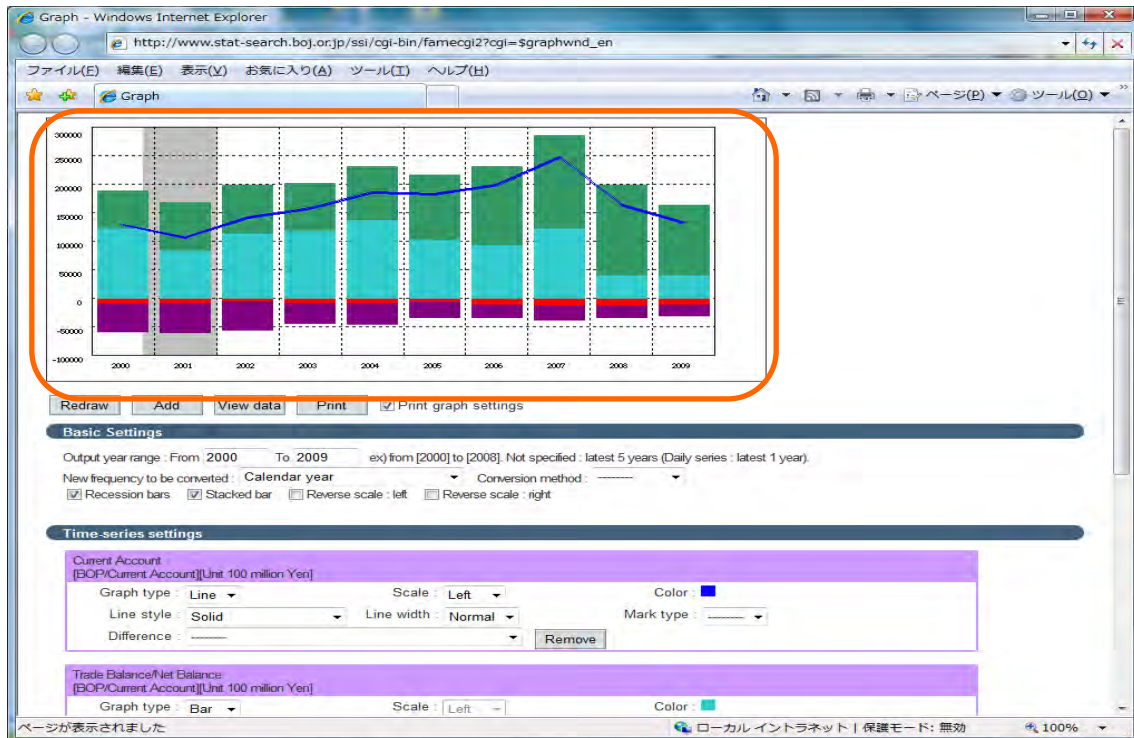


- (1) In **Time-series settings**, click the **Remove** button in the time-series item that you would like to delete (in this case, the last line graph).



- (2) Confirm that the selected time-series item has been removed from the list of **Time-series settings**, and the line graph from the **Graph** window.

One line graph and one stacked bar graph



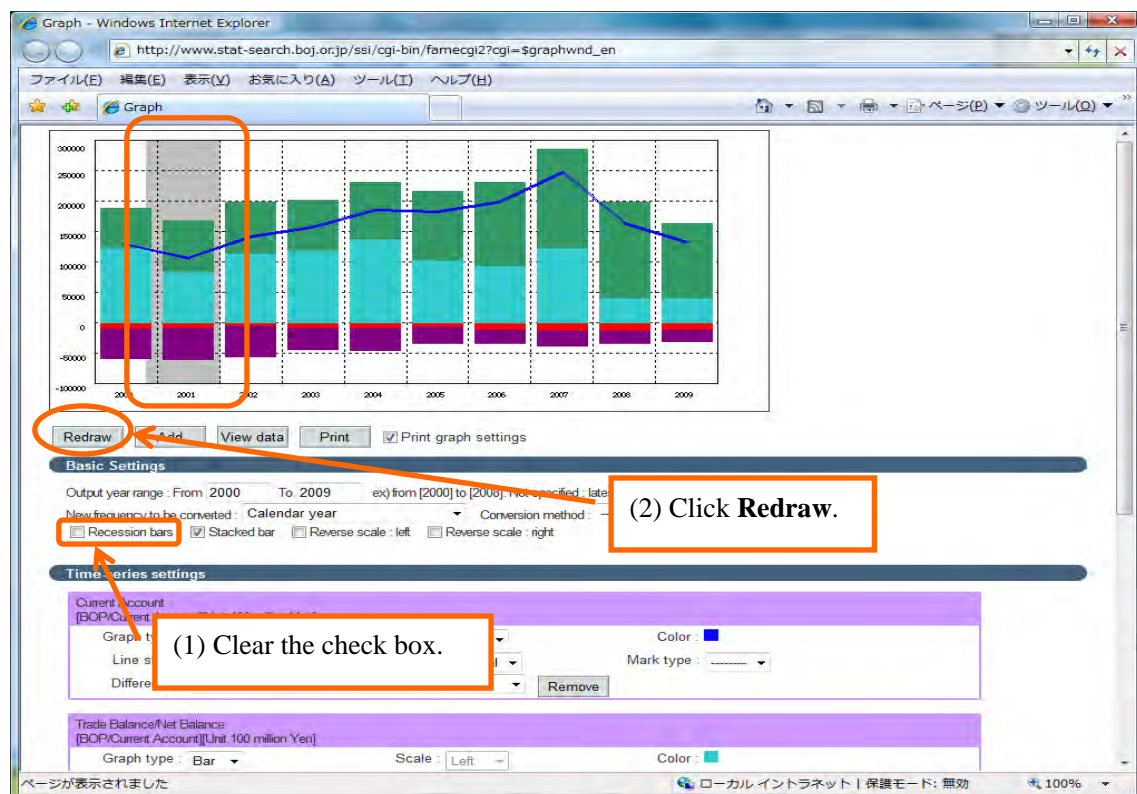
E. Hide recession bars

In default settings, recession periods are displayed automatically as recession bars, shaded gray areas behind the other bars. Hide recession bars if they are not needed.

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

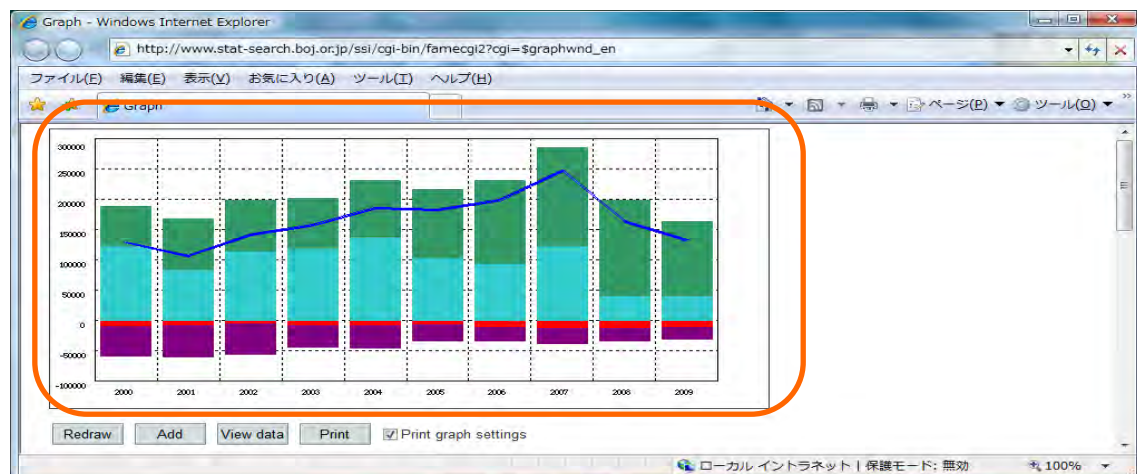
(2) Click the **Redraw** button.

With the recession bar displayed (default setting)



(3) The recession bar will be hidden.

With the recession bar hidden

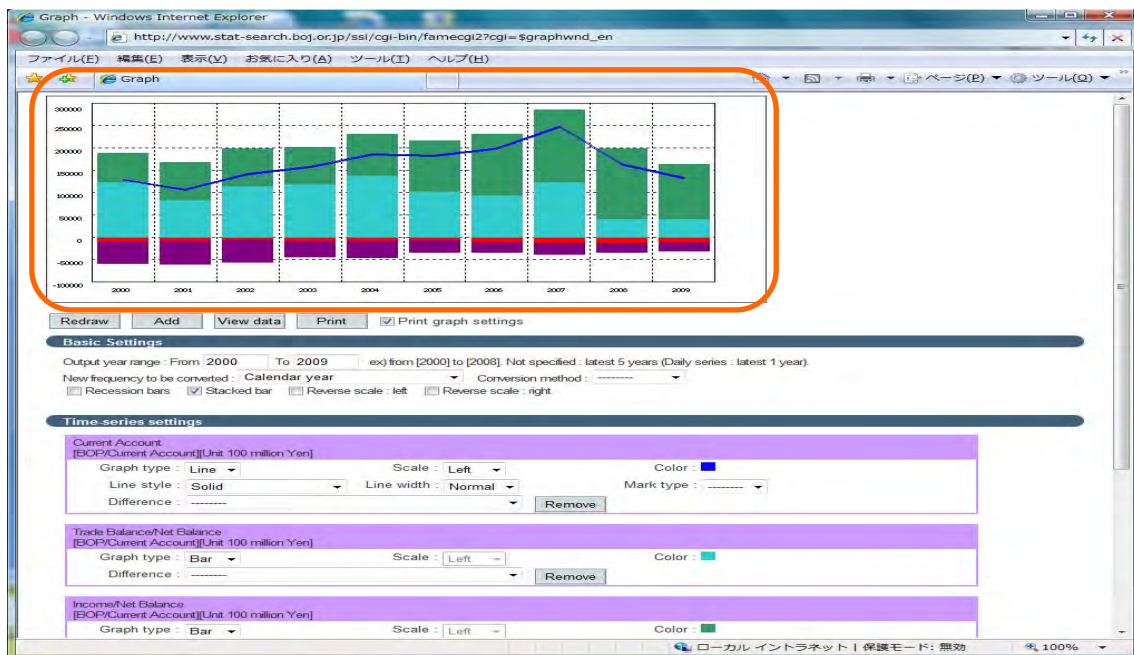


F. Change the order in the stacked bar graph

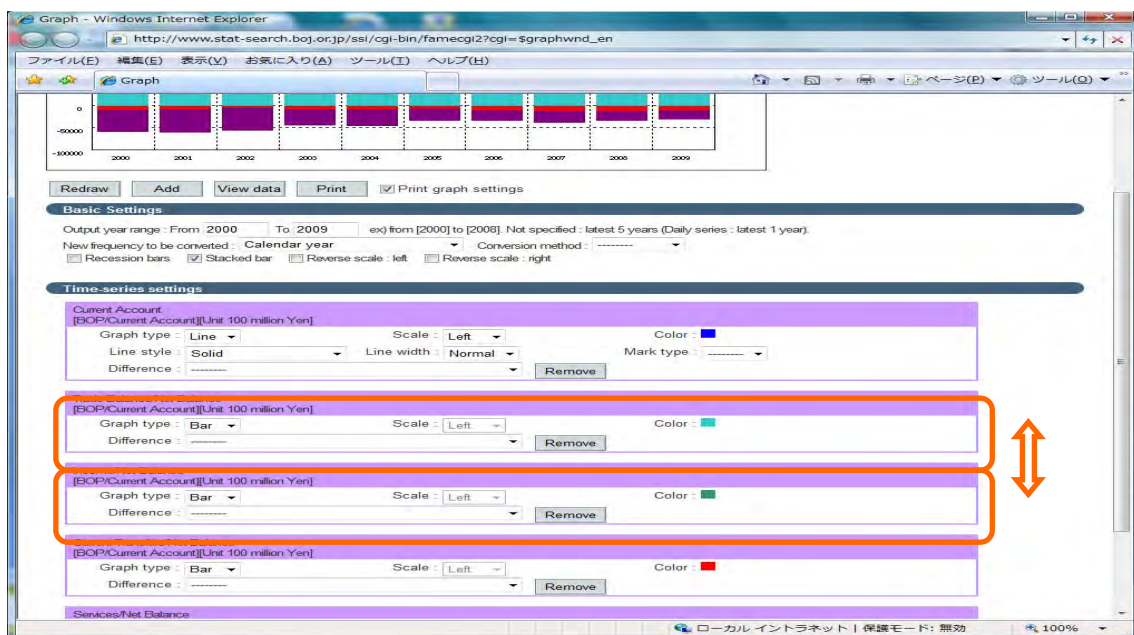
To change the order in the stacked bar graph, rearrange the list of time-series items in **Time-series settings** by dragging and dropping them.

In default settings, the time series listed in descending order in **Time-series settings** are stacked in ascending order (i.e., the time series listed on the top is stacked at the bottom of the vertical axis).

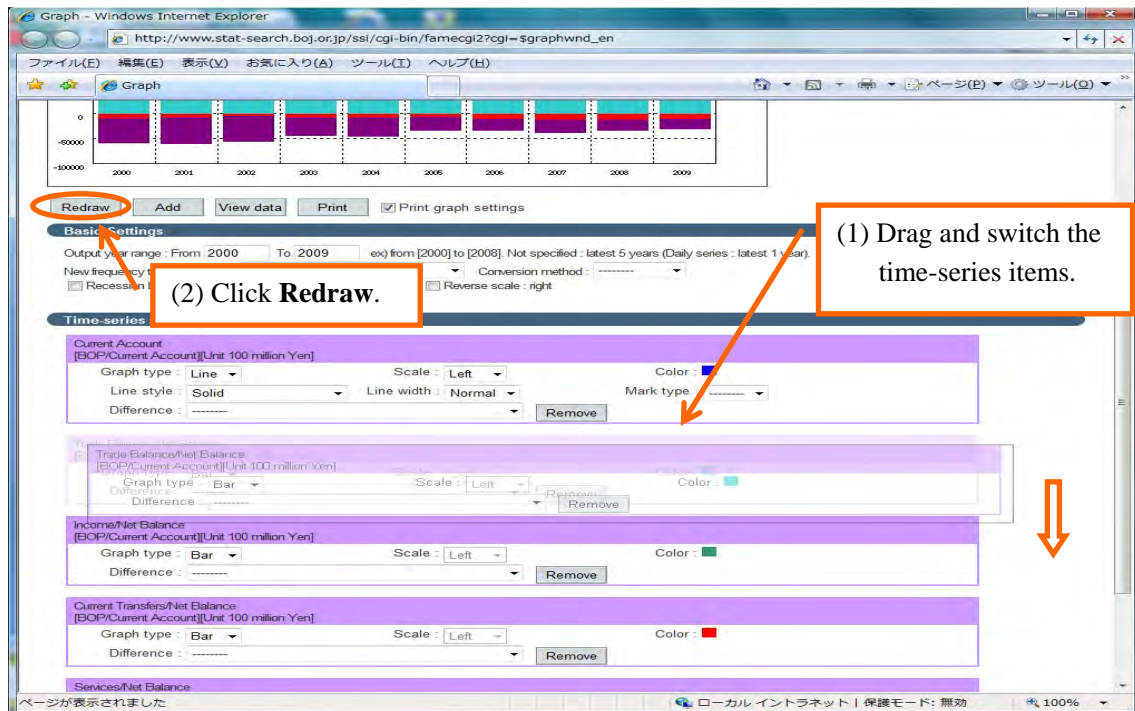
Stacked bar graph with the green bar on the top



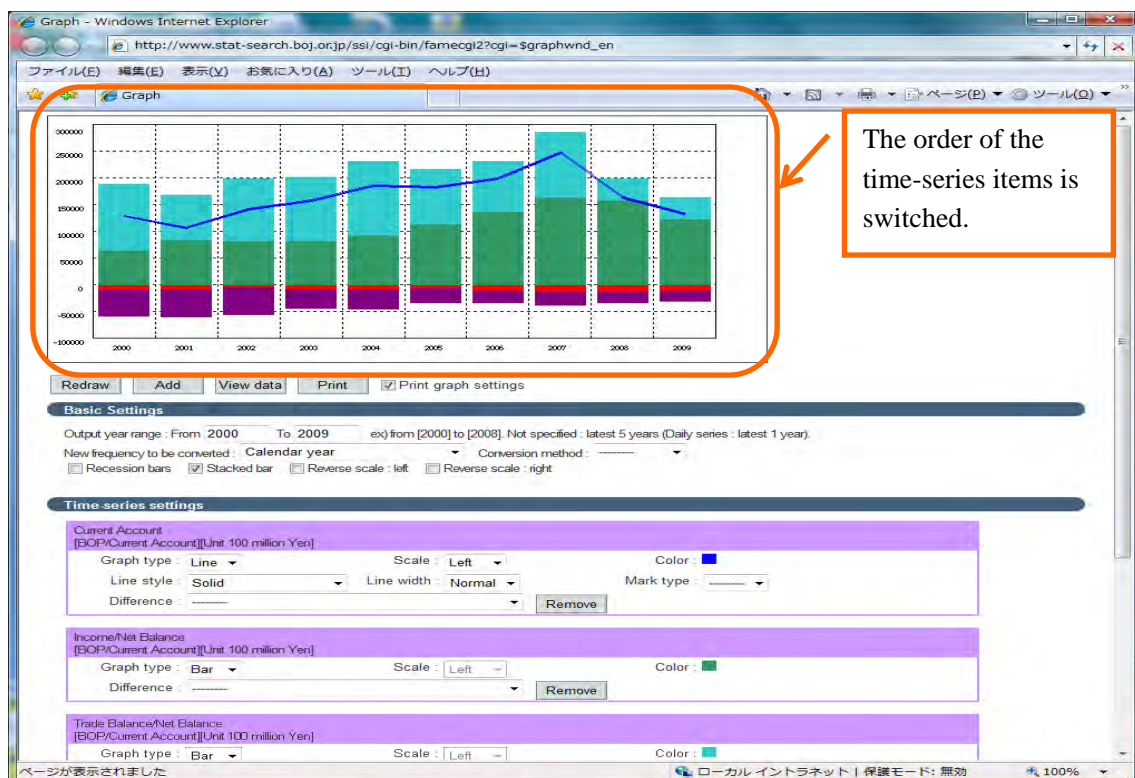
(1) Drag and drop the time-series items to switch the order of the items.



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



(3) The stacked bar graph will have the order changed.

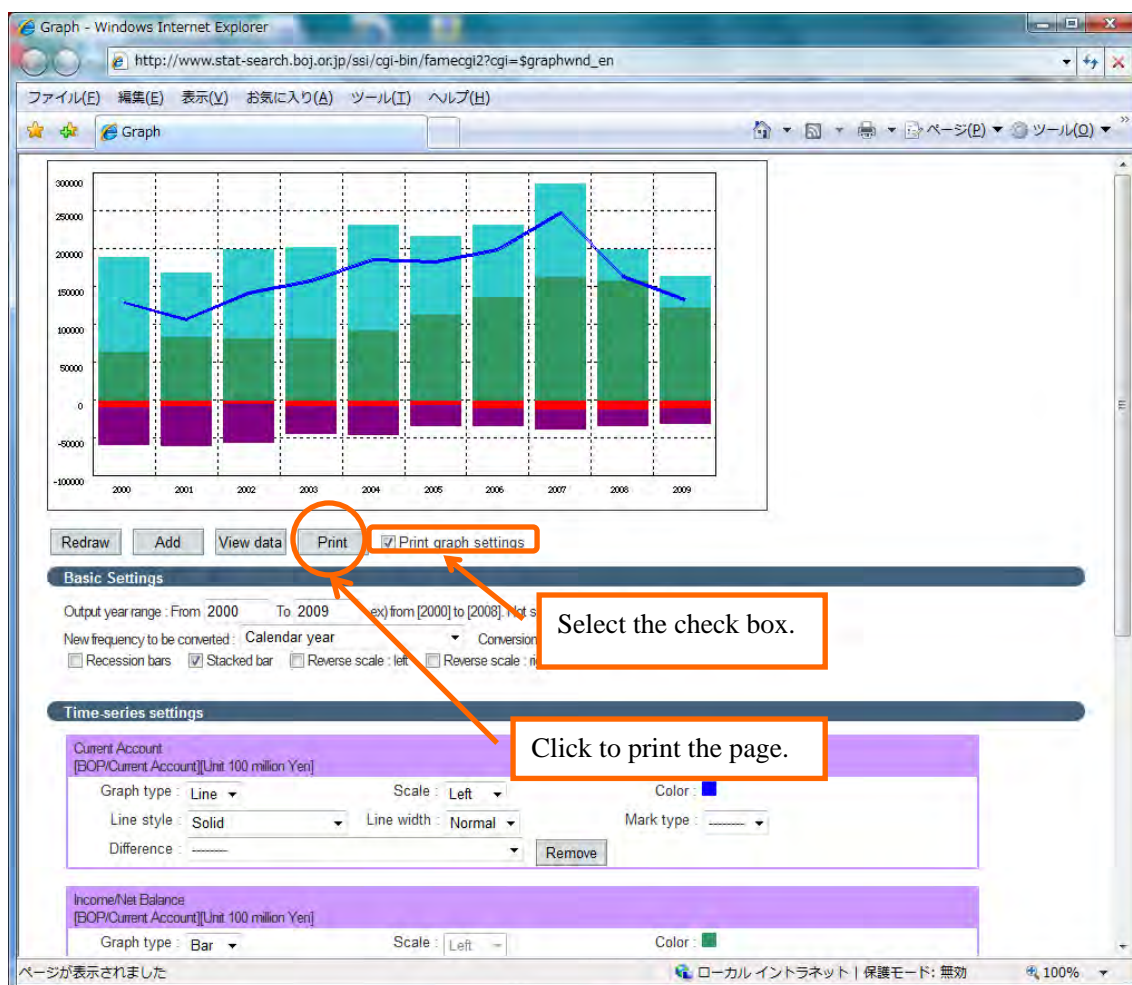


4. Printing a graph image

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

A. Print a graph image and graph settings

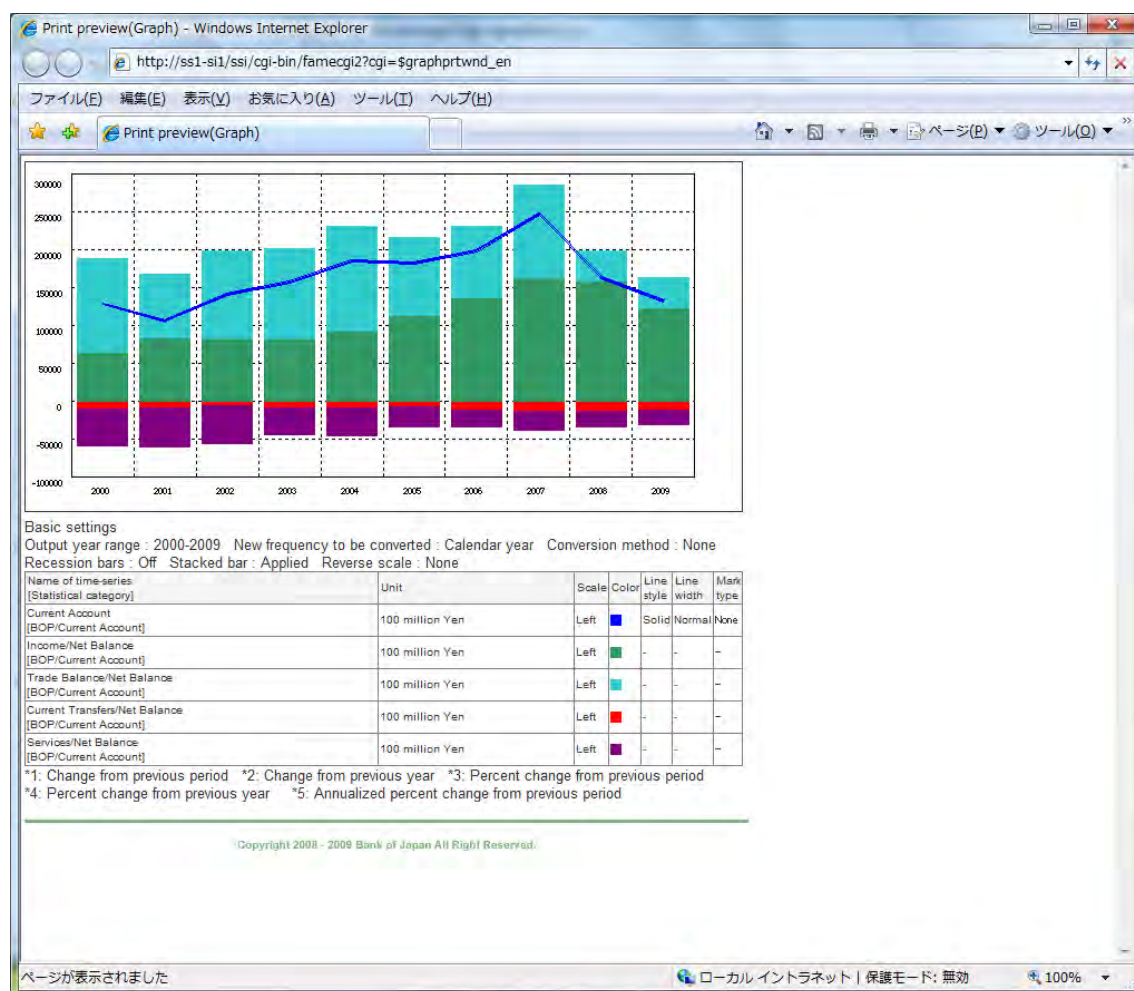
(1) Select the **Print graph settings** check box and click the **Print** button.



(2) The **Print preview** window appears. Go to the **File** menu and click **Print**.

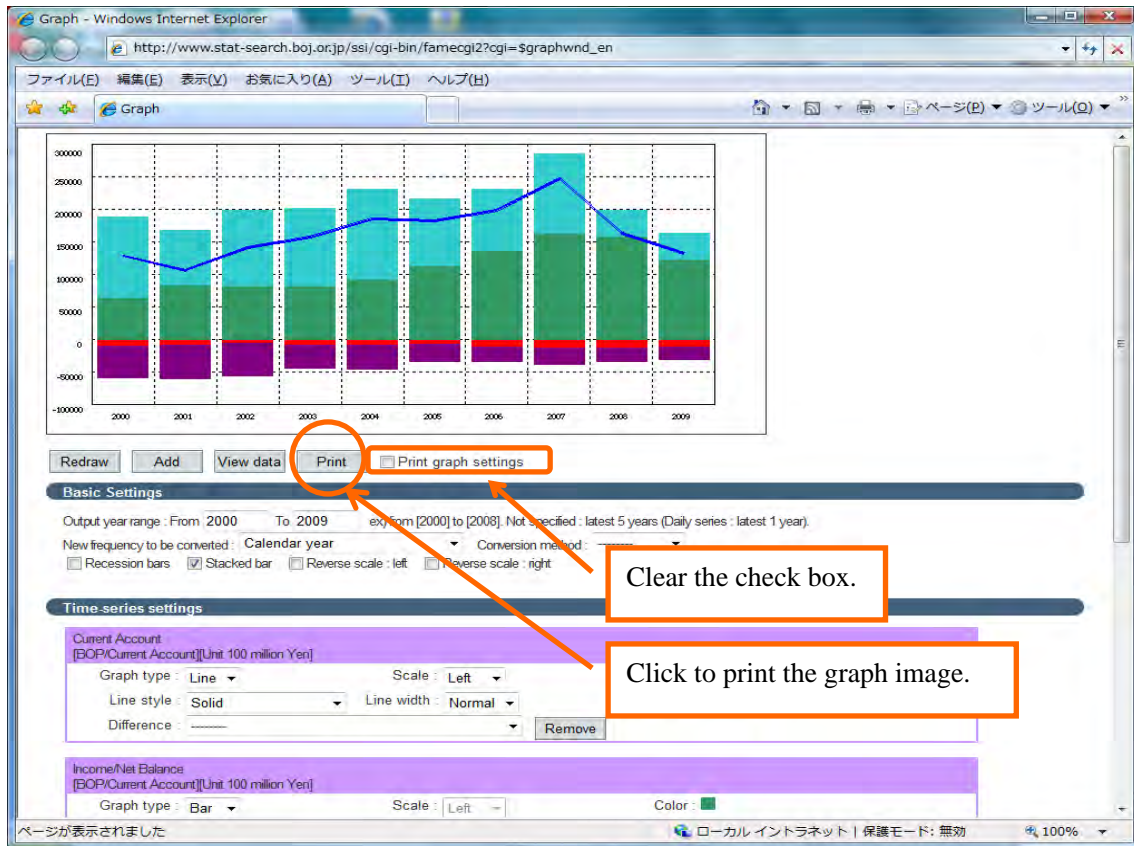
- Printing procedures may differ depending on your browser.

Print preview with the graph settings

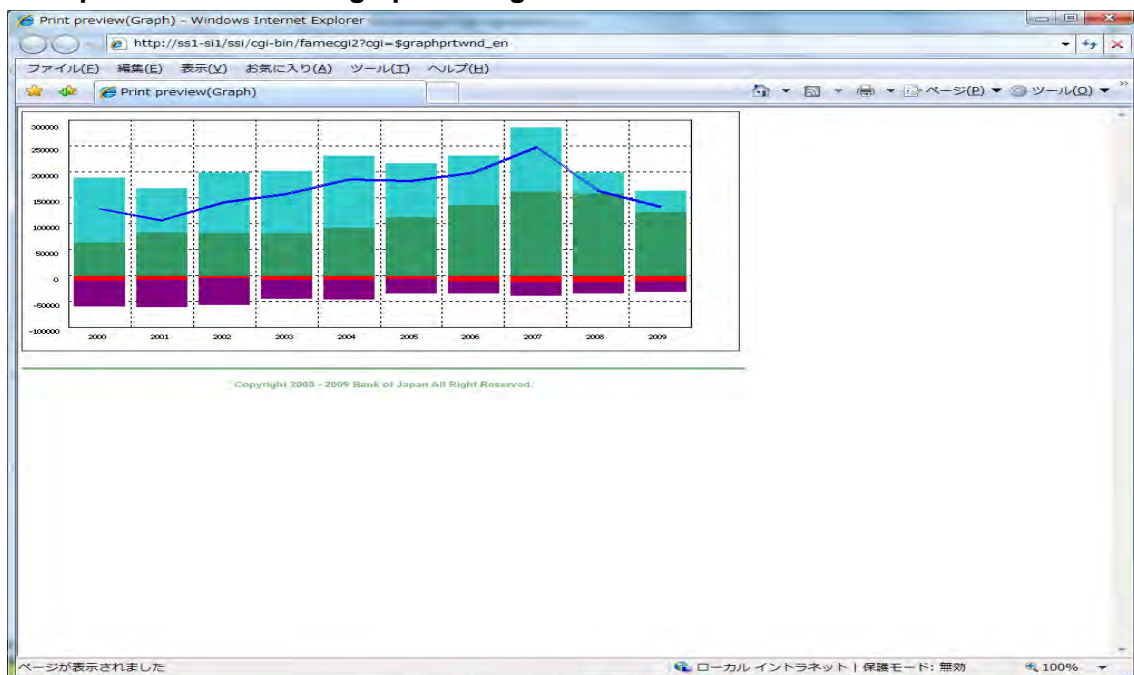


B. Print a graph image only

Clear the **Print graph settings** check box and click the **Print** button. Continue as shown on page 44.



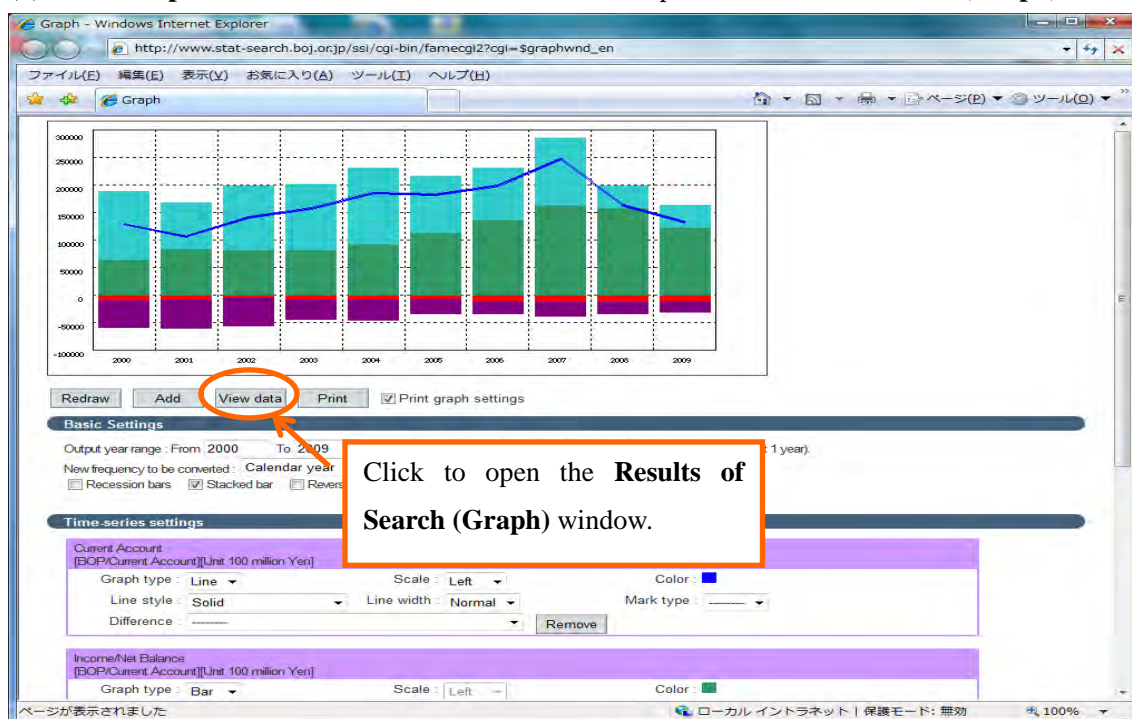
Print preview without the graph settings



5. Checking the information and data for graphs

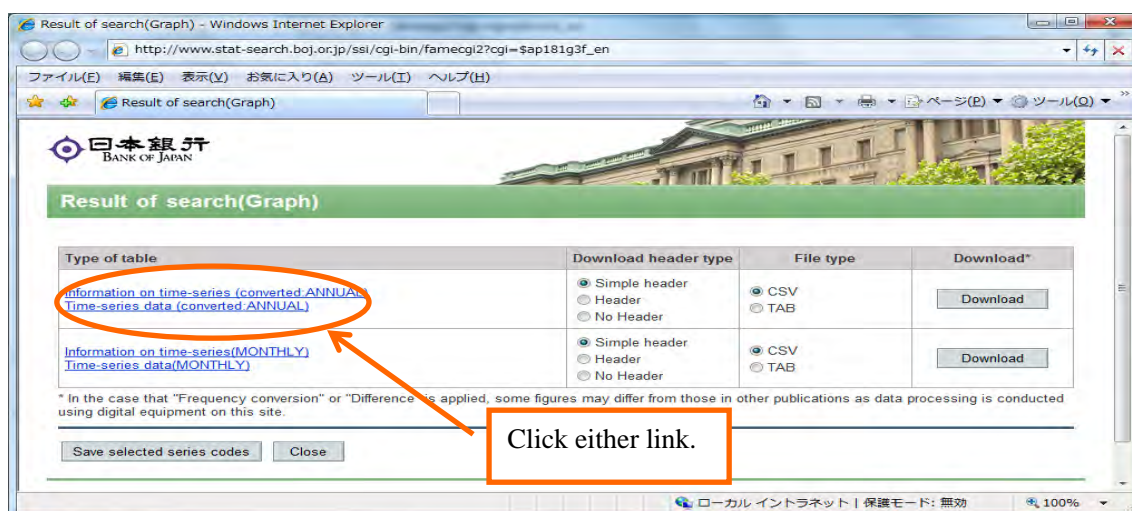
You can check the data and information about the time series items shown in graphs you have drawn for **Key figures at glance** or for your customized set of time-series data.

(1) In the **Graph** window, click the **View data** button to open the **Results of Search (Graph)** window.



(2) In the **Results of Search (Graph)** window, click **Information on time-series** to check the information on the time series, or click **Time-series data** to check the data on the time series.

The Results of Search (Graph) window



(3) In the **Information on time-series data (graph)** window, you can view the information on the time series for graphs.

- You can switch the windows by clicking the buttons.

Information on time-series data(Graph)

Time-series data Back

Series code	BPBPBJYNCB	Frequency	MONTHLY
Name of time-series	Current Account	Conversion method	SUMMED
Statistical category	BOP/Current Account	Last update	2010/04/08
Start of the time-series	1996/01	Unit	100 million Yen
End of the time-series	2010/02		
Notes			

Series code	BPBPBJYNIN	Frequency	MONTHLY
Name of time-series	Income/Net Balance	Conversion method	SUMMED
Statistical category	BOP/Current Account	Last update	2010/04/08
Start of the time-series	1996/01	Unit	100 million Yen
End of the time-series	2010/02		
Notes			

Series code	BPBPBJYNTB	Frequency	MONTHLY
Name of time-series	Trade Balance/Net Balance	Conversion method	SUMMED
Statistical category	BOP/Current Account	Last update	2010/04/08
Start of the time-series	1996/01	Unit	100 million Yen
End of the time-series	2010/02		
Notes			

In the **Time-series data (graph)** window, you can view the data on the time series for graphs.

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.

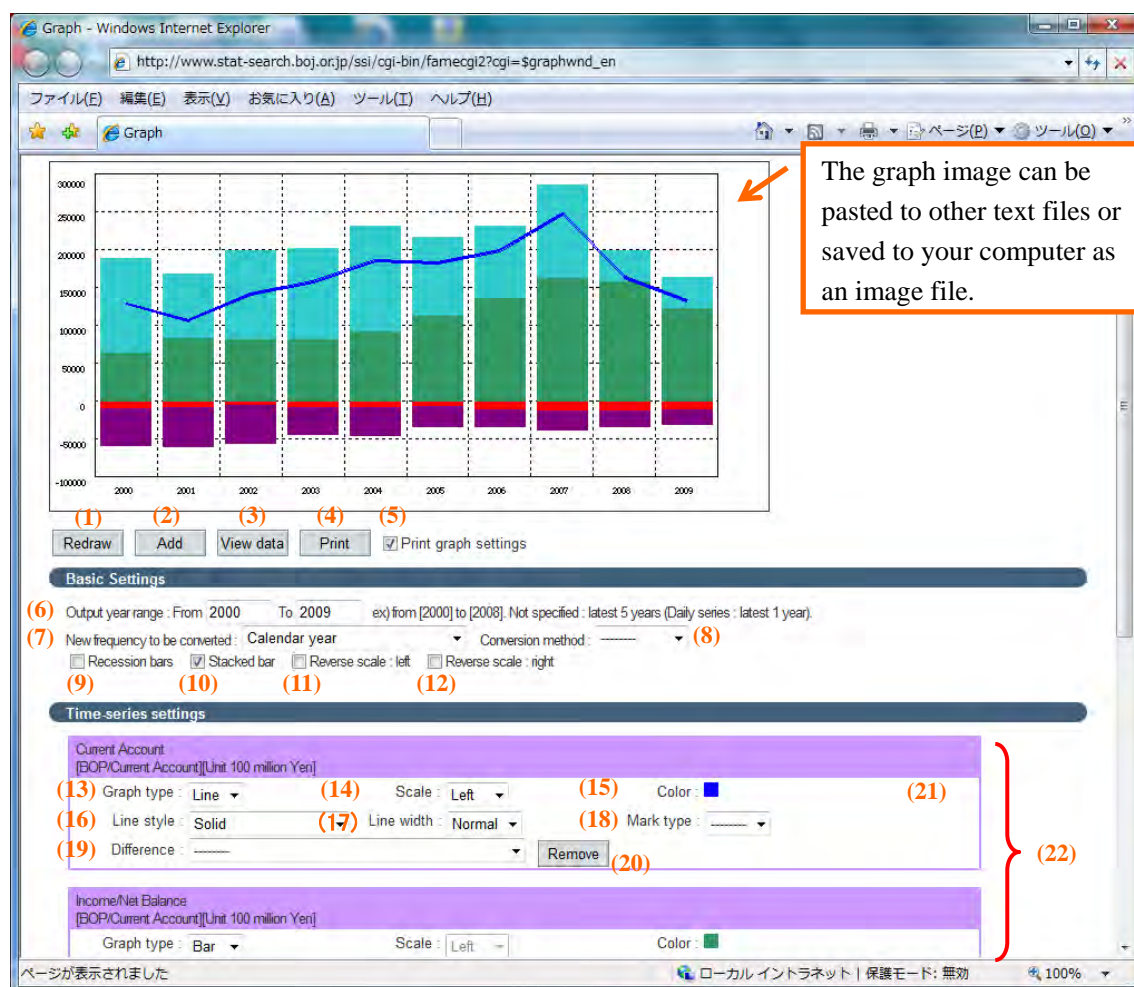
	BPBPBJYNCB Current Account	BPBPBJYNIN Income/Net Balance	BPBPBJYNTB Trade Balance/Net Balance	BPBPBJYNCN Current Transfers/Net Balance	BPBPBJYNSN Services/Net Balance
2000	128754	65052	123719	-10595	-49420
2001	106524	84005	84015	-9604	-51893
2002	141397	82666	115503	-5958	-50814
2003	157668	82814	119766	-8698	-36213
2004	186184	92732	139022	-8510	-37062
2005	182591	113816	103348	-8156	-26418
2006	198488	137459	94643	-12430	-21182
2007	247938	163267	123225	-13580	-24971
2008	163798	158415	40277	-13517	-21380
2009	132868	123254	40378	-11635	-19131

Information on time-series data Back

→ To redraw graphs, see pages 29.

6. The features of the Graph window

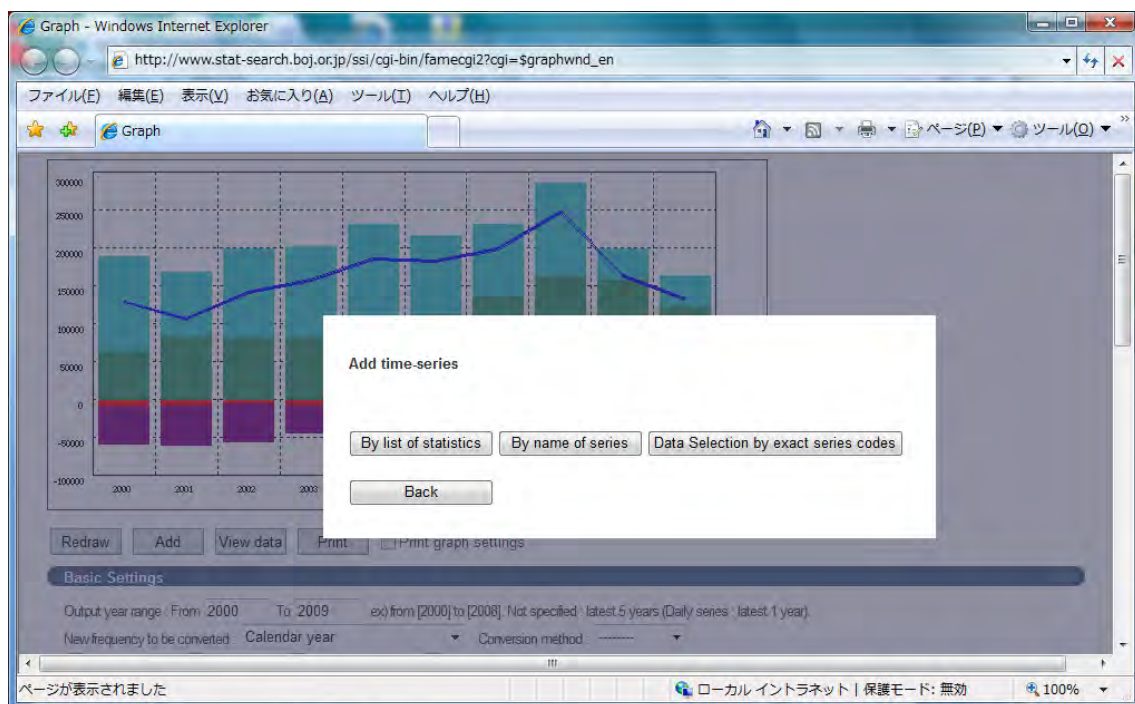
- The following explains the features of the **Graph** window. You can change the details of the graph image by making use of these features.



- (1) Click to redraw graphs after changing graph settings in **Basic settings** or **Time-series settings**.
- (2) Click to open the **Add time series** window to add time series (see the illustration below).
- (3) Click to check the information and data for graphs.
- (4) Click to print graphs by opening the **Print preview** window.
- (5) Select the check box to display the graph settings in the **Print preview** window.
- (6) Enter the output year range.
- (7) Specify the frequency.
- (8) Specify the method of changing frequency.
- (9) Select the check box to display the recession period.
- (10) Select the check box to stack bar graphs.

- (11) Select the check box to display the left axis in reverse scale.
- (12) Select the check box to display the right axis in reverse scale.
- (13) Specify the graph type.
- (14) Choose either the left- or right-scale vertical axis. (For bar graphs, scales are automatically set with numbers on the left vertical axis.)
- (15) Click to open the color window to change color (see the illustration below).
- (16) Specify the style for line graphs.
- (17) Specify the width for line graphs.
- (18) Specify the mark type for line graphs.
- (19) Specify to change graphs into a rate of change basis.
- (20) Click the button to remove the time series.
- (21) Double-click the title bar to display/hide the time series.
- (22) Rearrange the list of time-series items in **Time-series settings** by dragging and dropping them to change the order in the stacked bar graph.

The Add time series window



The Color window

