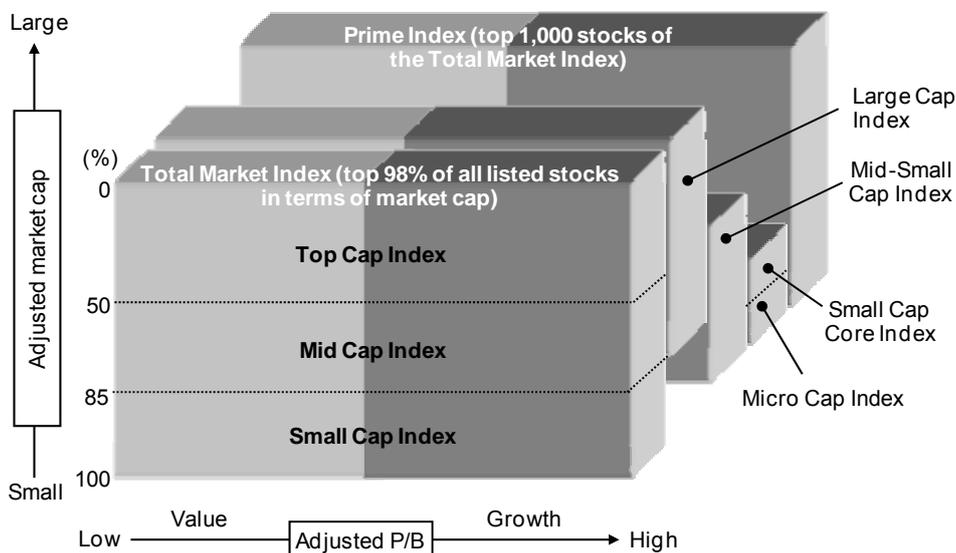


June 7, 2011

Russell/Nomura Japan Equity Indexes have the following characteristics:

- They cover the top 98% of all listed stocks in terms of float-adjusted market capitalization, thereby offering broad market coverage.
- In addition to stocks listed on the Tokyo Stock Exchange First Section (TSE-1), they include stocks listed on JASDAQ and other exchanges.
- Since the indexes are float-adjusted, they reflect the stocks that are actually available for investment.
- There are style indexes for large and small companies and for growth and value stocks.
- A Prime Index structured for passive investment is included.
- Stocks are selected quantitatively based on clearly defined criteria.

Russell/Nomura Japan Equity Indexes



Source: Nomura

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See Appendix A-1 for important disclosures. Analysts employed by non US affiliates are not registered or qualified as research analysts with FINRA in the US.

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1. Summary

Asset management has become more important in recent years, giving rise to management styles tailored to different investors' needs. Investors also want to be able to exercise more control over their own portfolios. Russell Investments and the Quantitative Research Center, Nomura Securities Co., Ltd., have responded to these trends by developing and publishing Russell/Nomura Japan Equity Indexes that can be used by investors employing a variety of different investment styles.

Russell/Nomura Japan Equity Indexes should be useful in:

- Determining investment strategies
- Determining manager structures
- Devising asset management benchmarks
- Supporting portfolio management activities
- Evaluating the performance of various investment styles
- Managing risk

Russell/Nomura Japan Equity Indexes have the following characteristics:

- They represent the entire Japanese equity market in that component stocks are selected from among all listed stocks (including those on the JASDAQ market)
- They reflect the stocks that are actually available for investment, as stable shareholdings are excluded from market capitalization figures
- There are subindexes for different sizes of company based on market capitalization
- There are subindexes for growth and value stocks
- A Prime Index structured for passive investment is included
- The subindexes for growth and value stocks are based on P/B ratios adjusted for hidden assets
- Indexes are calculated using share prices on major markets (Nomura composite share price)
- There are equity indexes including and excluding dividends
- Clear definitions mean that there is no arbitrariness in stock selection methods
- The composition of each index is reviewed once a year

About Russell Investments

Founded in 1936, Russell Investments is a global financial services firm that serves institutional investors, financial advisers and individuals in more than 40 countries. Over the course of its history, Russell's innovations have come to define many of the practices that are standard in the investment world today, and have earned the company a reputation for excellence and leadership.

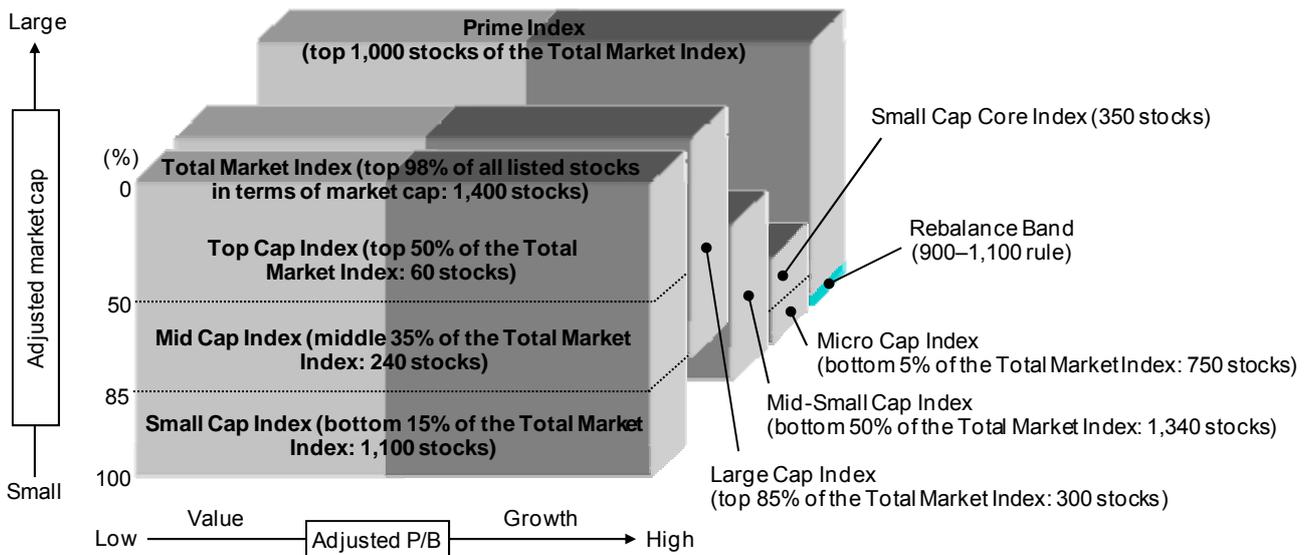
Through a unique combination of wide-ranging and interlinked businesses, Russell delivers financial products, services and advice. A pioneer, Russell began its strategic pension fund consulting business in 1969 and today is trusted by many well-known worldwide institutions for investment advice. The firm has \$161 billion in assets under management (as of 31 March 2011) in its mutual funds, retirement products, and institutional funds, and is well recognized for its depth of research and quality of manager selection. Russell offers a comprehensive range of implementation services that helps institutional clients maximize their assets. The Russell Indexes calculate over 50,000 benchmarks daily covering 65 countries and more than 10,000 securities.

Russell is headquartered in Tacoma, Washington, USA with offices in Amsterdam, Auckland, Chicago, Johannesburg, London, Melbourne, New York, Paris, San Francisco, Seoul, Singapore, Sydney, Tokyo and Toronto. For more information about how Russell helps to improve financial security for people, visit us at <<http://www.russell.com>>

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2. Russell/Nomura Japan Equity Indexes

Fig. 1: Russell/Nomura Japan Equity Indexes



Note: No. of stocks as of 1 December 2010 following regular reconfiguration

Source: Nomura

- The Russell/Nomura Total Market Index contains the top 98% of all stocks listed on Japan's stock exchanges in terms of adjusted market capitalization
- The Russell/Nomura Large Cap Index contains the top 85% of the Russell/Nomura Total Market Index in terms of adjusted market capitalization
- The Russell/Nomura Small Cap Index contains the bottom 15% of the Russell/Nomura Total Market Index in terms of adjusted market capitalization
- The Russell/Nomura Top Cap Index contains the top 50% of the Russell/Nomura Total Market Index in terms of adjusted market capitalization
- The Russell/Nomura Mid Cap Index contains the middle 35% of the Russell/Nomura Total Market Index in terms of adjusted market capitalization
- The Russell/Nomura Mid-Small Cap Index contains the bottom 50% of the Russell/Nomura Total Market Index in terms of adjusted market capitalization
- The Russell/Nomura Small Cap Core Index comprises stocks in the Small Cap Index, excluding the Micro Cap Index, and represents the bottom 15% of the Russell/Nomura Total Market Index in terms of adjusted market capitalization, excluding the bottom 5%
- The Russell/Nomura Micro Cap Index contains the bottom 5% of the Russell/Nomura Total Market Index in terms of adjusted market capitalization
- The Russell/Nomura Prime Index contains the top 1,000 stocks from the Total Market Index in terms of adjusted market capitalization and taking into account "banding" and the "negative list"
- These indexes are further subdivided into value and growth indexes. The value and growth indexes are determined in such a way that the adjusted market capitalization of the Total Market Index is divided into two. Some companies can be in both the growth and value indexes.

3. Overview of Russell/Nomura Japan Equity Indexes

3-1. Number of stocks and market cap

Figure 2 shows the number of stocks in the reconfigured Russell/Nomura Total Market Index and in the total market and their market capitalization.

Fig. 2: Russell/Nomura Total Market Index and the total market

	Number of stocks		Market cap (¥trn)		
	Russell/Nomura	Total market	Russell/Nomura (adjusted for stable shareholdings)	Russell/Nomura (not adjusted for stable shareholdings)	Total market (not adjusted for stable shareholdings)
TSE-1	1,245	1,665	192	292	295
Other	155	1,984	3	6	14
Total	1,400	3,649	195	299	309

Note: Numbers of stocks, market cap, and market breakdowns are as of end-November 2010. However, figures for the Russell/Nomura Total Market are based on constituent stocks as of 1 December 2010 (after the regular reconfiguration).

Source: Nomura

Figure 3 shows the number of stocks in the reconfigured Russell/Nomura indexes and their market capitalization weightings.

Fig. 3: Comparison of market cap and number of stocks

		Number of stocks	% of total market cap
Total		1,400	100.0
	Value	1,081	51.1
	Growth	589	48.9
Large		300	84.9
	Value	190	40.5
	Growth	199	44.4
Top		60	51.1
	Value	38	24.0
	Growth	45	27.2
Mid		240	33.7
	Value	152	16.5
	Growth	154	17.2
Mid-Small		1,340	48.9
	Value	1,043	27.1
	Growth	544	21.8
Small		1,100	15.1
	Value	891	10.6
	Growth	390	4.6
Small core		350	10.0
	Value	273	6.6
	Growth	157	3.3
Micro		750	5.2
	Value	618	4.0
	Growth	233	1.2
Prime		1,000	98.2
	Value	748	49.7
	Growth	478	48.5

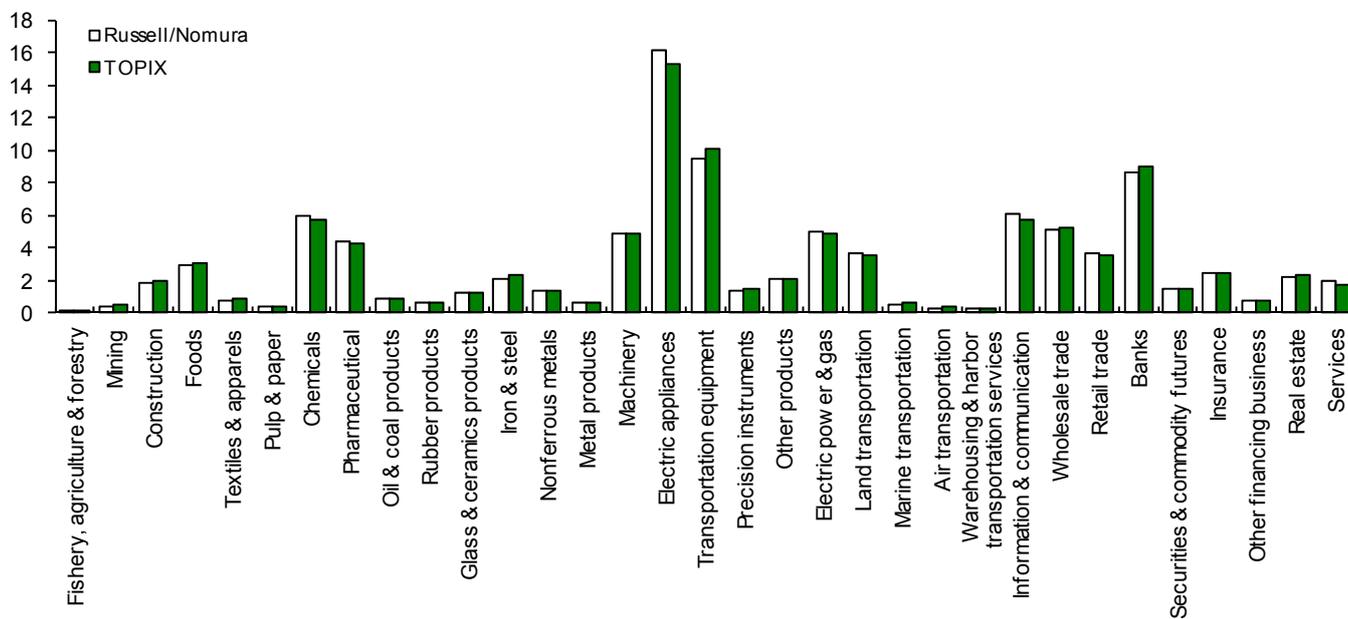
Note: Data as of 1 December 2010 (after the regular reconfiguration), except for market caps, which are as of end-November 2010.

Source: Nomura

3-2. Sector allocation

Figure 4 shows the composition of the Russell/Nomura Total Market Index in terms of 33 sector classifications. Compared with the TOPIX, the Russell/Nomura Total Market Index contains a higher proportion of stocks in the electric appliance sector and a lower proportion of stocks in the banks and transportation equipment sectors.

Fig. 4: Sector allocation of the Russell/Nomura Total Market Index and the TOPIX



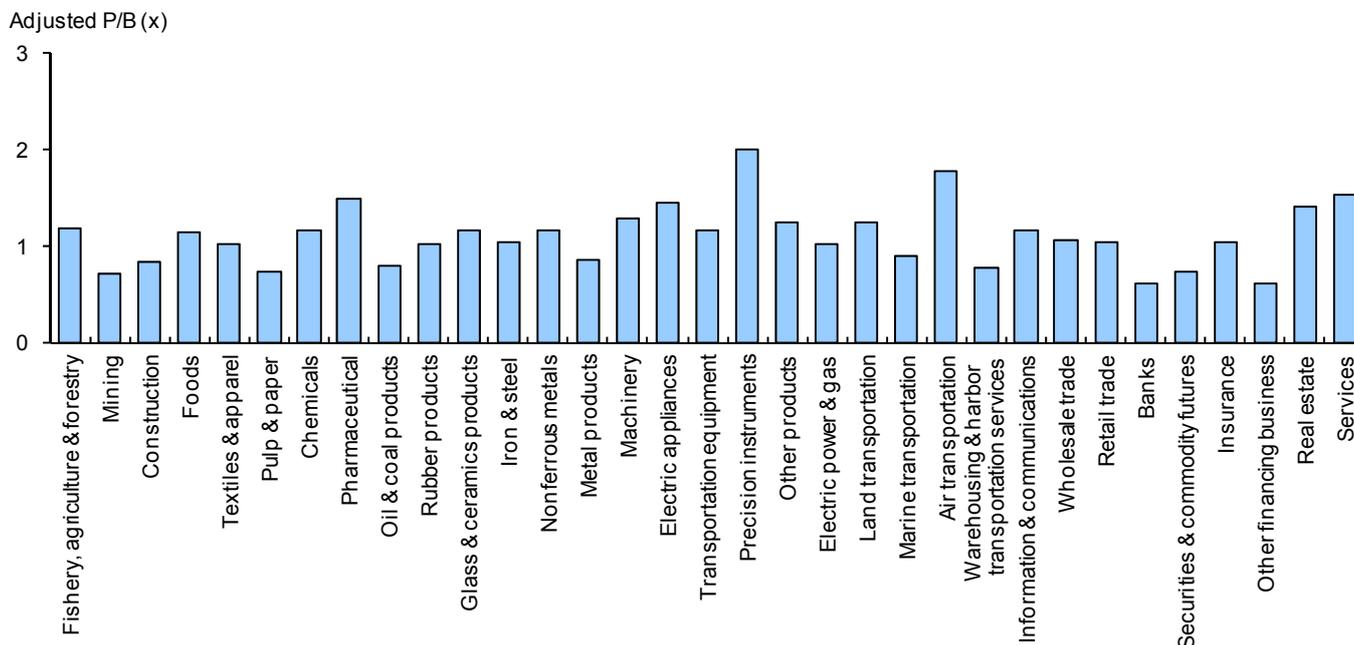
Note: Market capitalization is as of 30 November 2010. Russell/Nomura constituent stocks are as of 1 December 2010 (after the regular reconfiguration).

Source: Nomura

3-3. Adjusted P/B ratios

Adjusted P/B ratios are high for such sectors as air transportation and precision instruments and low for such sectors as other financial businesses and banks.

Fig. 5: P/B ratios within each sector of the Russell/Nomura Total Market Index



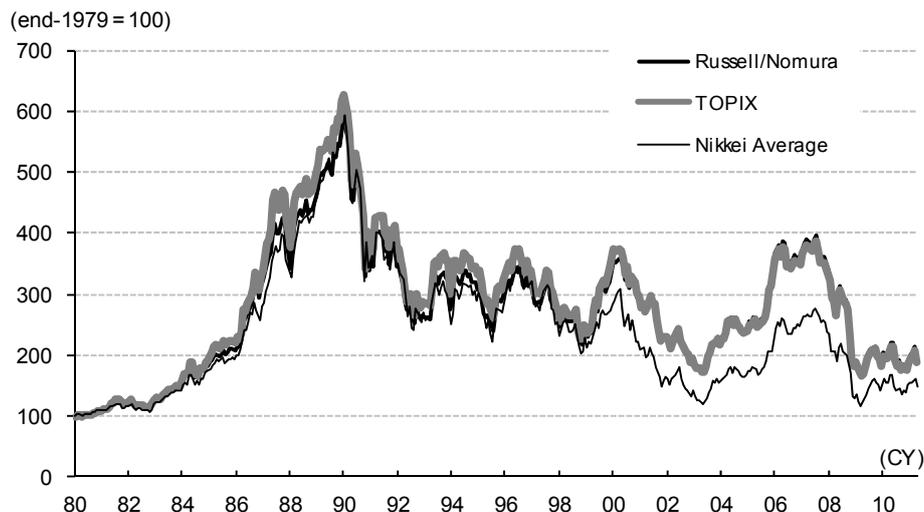
Note: As of 1 December 2010 (after the regular reconfiguration). Adjusted P/B = Σ (share price of each included stock) / Σ (adjusted BPS of each included stock).

Source: Nomura

3-4. Performance summary

3-4-1. Performance

Fig. 6: Performance of main indexes over time



Note: Cumulative monthly returns (excluding dividends), indexed to end of 1979 = 100. December 1979–March 2011. Russell/Nomura refers to the Total Market Index.

Source: Nomura

Fig. 7: Correlation coefficients for monthly returns on main indexes

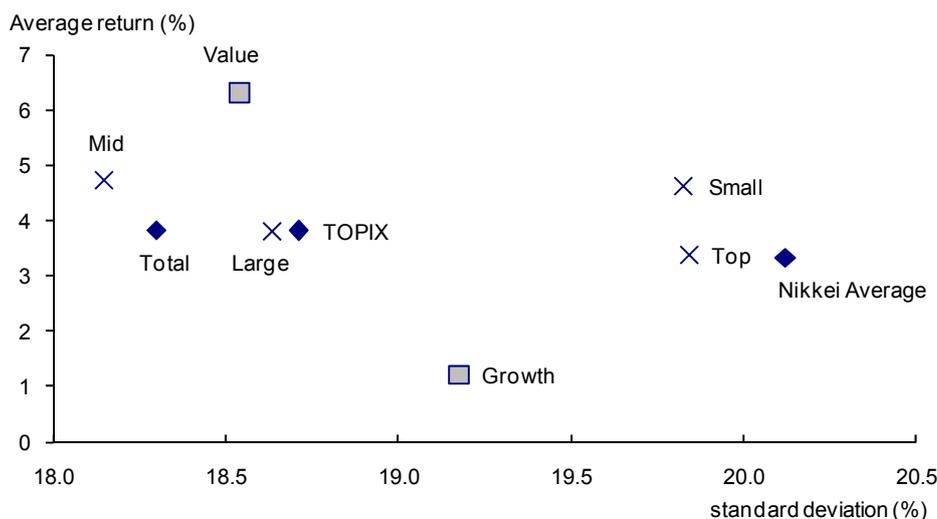
	Russell/Nomura	TOPIX	Nikkei Average
Russell/Nomura	1		
TOPIX	0.9940	1	
Nikkei Average	0.9599	0.9588	1

Note: Correlation coefficients for monthly returns (excluding dividends), January 1980–March 2011. Russell/Nomura refers to the Total Market Index.

Source: Nomura

3-4-2. Risk-return characteristics of individual indexes

Fig. 8: Risks and returns of various indexes



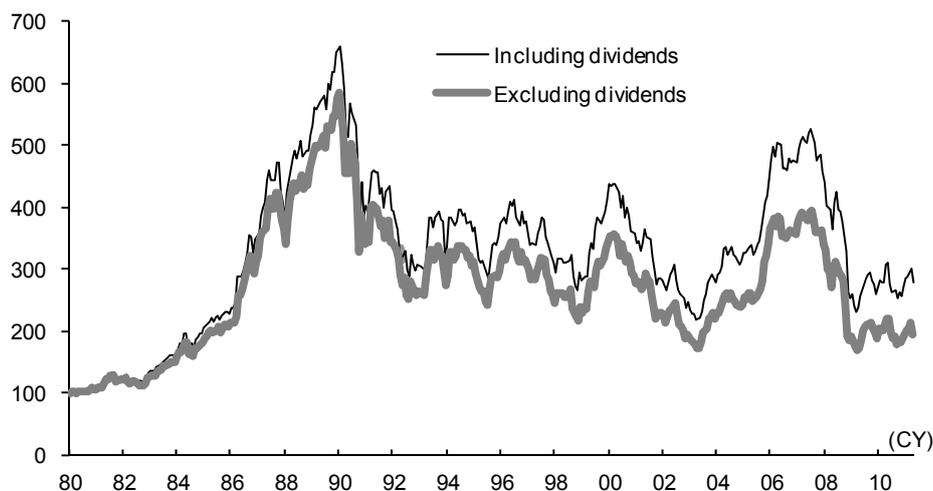
Note: Monthly returns (excluding dividends), January 1980–March 2011, annualized.

Source: Nomura

3-4-3. Impact of dividends

Fig. 9: Impact of dividends on the performance of the Russell/Nomura Total Market Index

(end Dec 1989 = 100)

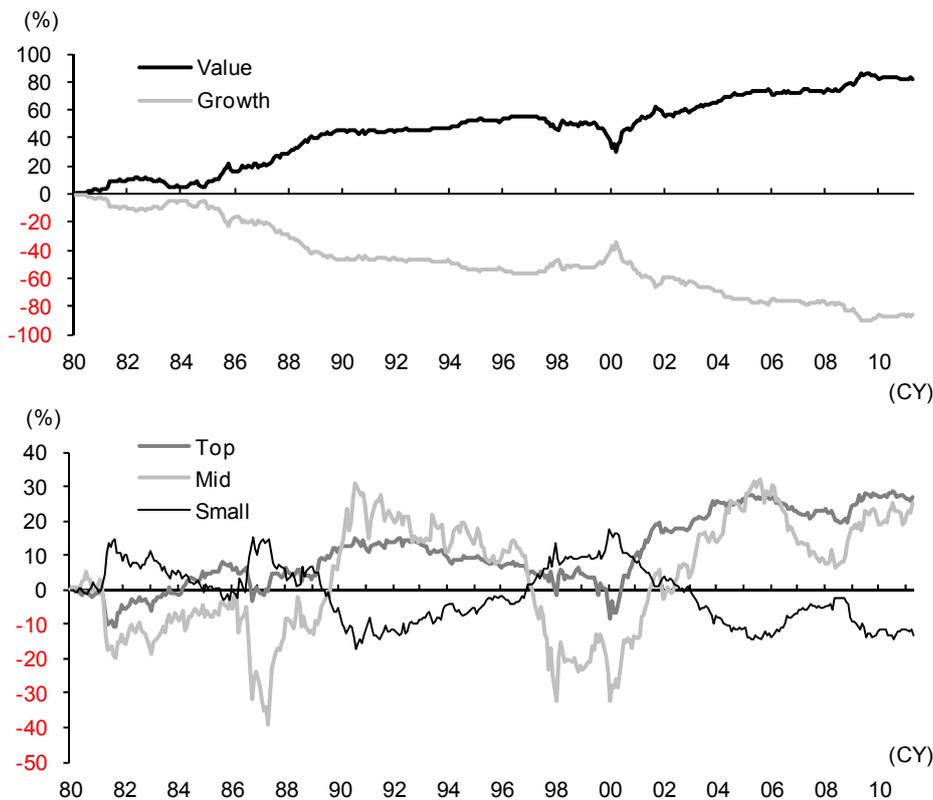


Note: January 1980–March 2011, indexed to end of December 1979 = 100.

Source: Nomura

3-4-4. Relative performance of style indexes

Fig. 10: Cumulative excess return of style-based and market cap-based indexes relative to the Total Market Index

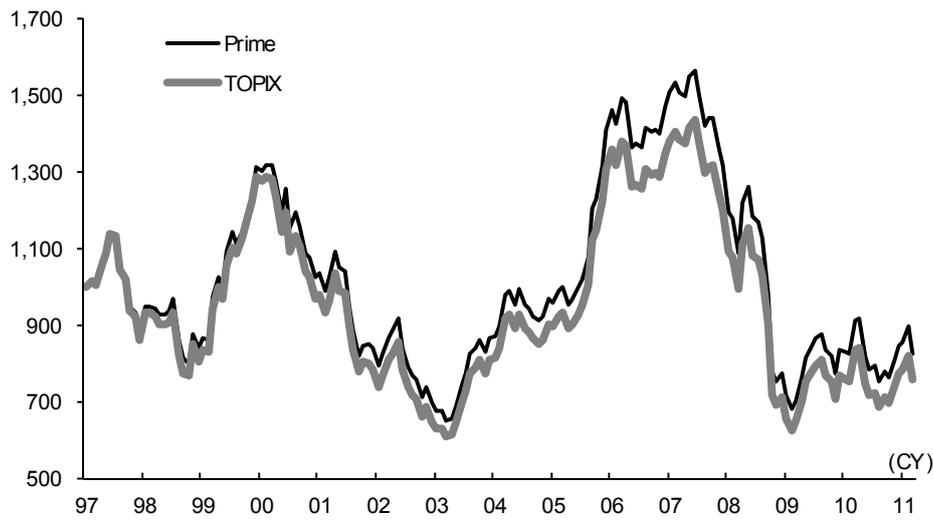


Note: Cumulative excess return of each index relative to the Total Market Index, including dividends, January 1980–March 2011.

Source: Nomura

3-4-5. Performance of the Prime Index

Fig. 11: Performance of the Prime Index



Note: Cumulative monthly returns, January 1997–March 2011, including dividends.
 Source: Nomura

3-5. Turnover ratio

Figure 12 shows the turnover ratios of indexes at the time of regular reconfigurations.

Fig. 12: Turnover ratios of the Russell/Nomura Total Market Index (in terms of market cap)

(yy/m)	Total			Large	Small	Prime
		Value	Growth			
81/1	2.4	11.2	12.9	3.5	13.1	-
82/1	2.1	15.7	17.8	3.1	12.1	-
83/1	2.1	15.2	15.1	3.1	13.5	-
84/1	2.6	14.2	15.6	4.3	16.2	-
85/1	2.9	16.3	19.1	4.1	17.5	-
86/1	3.7	15.6	16.7	4.8	16.2	-
87/1	2.3	17.5	17.7	3.3	18.4	-
88/1	3.5	12.4	16.9	5.1	16.8	-
89/1	3.7	17.1	22.1	4.9	15.8	-
90/1	3.0	15.9	18.2	7.2	27.3	-
91/1	3.4	19.0	20.8	4.6	20.9	-
92/1	1.9	13.1	13.5	3.1	13.6	-
93/1	1.9	12.0	12.8	3.2	13.3	-
94/1	1.5	11.7	12.2	2.6	12.0	-
95/1	3.3	13.6	17.0	4.0	15.4	-
96/1	2.2	13.1	13.6	2.5	9.8	-
97/1	2.2	18.0	19.2	2.3	10.7	-
98/1	1.4	18.4	14.8	2.5	16.6	1.4
99/1	3.1	12.9	14.2	4.1	12.3	3.0
00/1	3.4	31.3	25.5	5.4	31.8	3.5
01/1	2.8	18.6	21.3	3.8	18.3	2.7
02/2	2.5	16.7	16.2	7.6	43.0	2.4
02/12	3.3	15.5	13.5	4.7	15.8	2.2
03/12	2.5	19.6	20.7	4.6	20.2	2.1
04/12	3.5	17.5	20.9	4.9	18.9	3.4
05/12	3.2	21.0	22.8	3.8	15.8	3.1
06/12	2.5	18.6	17.6	3.1	16.4	2.5
07/12	1.8	20.5	20.8	3.5	18.8	1.7
08/12	1.6	29.3	31.7	3.8	17.6	1.7
09/12	1.6	26.8	26.5	4.2	21.6	1.5
10/12	1.8	14.5	14.6	3.1	15.8	1.8
Average	2.6	17.2	18.1	4.0	17.6	2.4

Note: Turnover ratio is $[\Sigma | \text{market cap weighting before reconfiguration} - \text{market cap weighting after reconfiguration} | / 2]$, based on share price at the end of the previous month. The figures thus show one-way turnover in the case of an index fund constructed by actually investing in all of the constituent stocks of the benchmark index. A change in all of the constituent stocks would give a turnover ratio of 100%.

Source: Nomura

3-6. Trends in reconfigurations

Figure 13 shows constituent stocks in indexes after regular reconfigurations.

Fig. 13: Number of constituent stocks

(yy/m)	Total	Value		Large	Small	Prime
		Value	Growth			
81/1	1,091	656	713	400	691	-
82/1	1,091	708	642	400	691	-
83/1	1,091	766	592	400	691	-
84/1	1,091	738	630	400	691	-
85/1	1,104	706	672	400	704	-
86/1	1,142	733	762	400	742	-
87/1	1,142	833	672	400	742	-
88/1	1,199	860	765	400	799	-
89/1	1,267	877	778	400	867	-
90/1	1,381	827	972	500	881	-
91/1	1,561	920	1,118	500	1,061	-
92/1	1,585	1,017	1,070	500	1,085	-
93/1	1,586	1,092	954	500	1,086	-
94/1	1,586	1,118	940	500	1,086	-
95/1	1,749	1,111	1,090	500	1,249	-
96/1	1,754	1,191	1,006	500	1,254	-
97/1	1,854	1,251	1,082	500	1,354	-
98/1	1,854	1,575	701	500	1,354	1,000
99/1	1,854	1,584	616	500	1,354	1,000
00/1	1,854	1,551	656	500	1,354	1,000
01/1	1,854	1,544	642	500	1,354	1,000
02/2	1,853	1,573	578	300	1,553	1,000
02/12	1,500	1,225	527	300	1,200	1,000
03/12	1,600	1,233	677	350	1,250	1,000
04/12	1,700	1,231	796	400	1,300	1,000
05/12	1,799	1,218	915	400	1,399	1,000
06/12	1,700	1,241	766	350	1,350	1,000
07/12	1,500	1,164	668	300	1,200	1,000
08/12	1,400	1,111	519	300	1,100	1,000
09/12	1,500	1,139	669	350	1,150	1,000
10/12	1,400	1,081	589	300	1,100	1,000

Source: Nomura

4. Russell/Nomura Japan Equity Indexes at a glance

- **The Russell/Nomura Total Market Index** covers more than 98% of the stocks listed on all markets (after stable shareholdings have been removed from market capitalization). The stocks are ranked by capitalization and accumulated until 98% of total capitalization is fulfilled. The number of accumulated stocks must be a multiple of 100¹.

After the December 2010 regular reconfiguration, the index included 1,400 stocks². The company with the largest market capitalization after adjustment for stable shareholdings was Toyota Motor (¥5,414.3bn) and the company with the smallest was Corona (¥5.9bn).

Other indexes are defined in terms of market capitalization (excluding stable shareholdings).

- **The Russell/Nomura Large Cap Index** contains roughly the top 85% of the Russell/Nomura Total Market Index in terms of market capitalization. The number of stocks in the index is a multiple of 50. Top Cap and Mid Cap are subindexes.

After the December 2010 reconfiguration, the index contained 300 stocks. The company with the largest adjusted market capitalization was Toyota Motor (¥5,414.3bn) and the company with the smallest was Yamatake (¥107.2bn).

- **The Russell/Nomura Small Cap Index** contains roughly the bottom 15% of the Russell/Nomura Total Market Index in terms of market capitalization. It consists of those stocks in the Total Market Index, less those in the Large Cap Index.

After the December 2010 reconfiguration, the index contained 1,100 stocks. The company with the largest adjusted market capitalization was 77 Bank (¥107.1bn) and the company with the smallest was Corona (¥5.9bn).

- **The Russell/Nomura Top Cap Index** contains roughly the top 50% of the Russell/Nomura Total Market Index in terms of market capitalization. The number of stocks in the index is a multiple of 10.

After the December 2010 reconfiguration, the index contained 60 stocks. The company with the largest adjusted market capitalization was Toyota Motor (¥5,414.3bn) and the company with the smallest was Sumitomo Metal Mining (¥700.9bn).

- **The Russell/Nomura Mid Cap Index** represents the Large Cap Index minus the Top Cap Index. In other words, it represents the stocks in the middle of the Russell/Nomura Total Market Index in terms of market capitalization and is equivalent to roughly 35% of total market capitalization.

After the December 2010 reconfiguration, the index contained 240 stocks. The company with the largest adjusted market capitalization was Sumitomo Electric Industries (¥688.8bn) and the company with the smallest was Yamatake (¥107.2bn).

- **The Russell/Nomura Mid-Small Cap Index** represents roughly the bottom 50% of the Russell/Nomura Total Market Index in terms of market capitalization; it is a combination of the Mid Cap Index and the Small Cap Index.

After the December 2010 reconfiguration, the index contained 1,340 stocks. The company with the largest adjusted market capitalization was Sumitomo Electric Industries (¥688.8bn) and the company with the smallest was Corona (¥5.9bn).

- **The Russell/Nomura Small Cap Core Index** represents the top-ranked stocks among the bottom 15% of the Russell/Nomura Total Market Index in terms of market capitalization; it comprises about 10% of the Total Market Index market capitalization from the bottom 15% of stocks by market capitalization to the bottom 5% of stocks.

After the December 2010 reconfiguration, the index contained 350 stocks. The company with the largest adjusted market capitalization was 77 Bank (¥107.1bn) and the company with the smallest was Shinko Plantech (¥26.4bn).

- **The Russell/Nomura Micro Cap Index** represents roughly the bottom 5% of the Russell/Nomura Total Market Index in terms of market capitalization; it comprises the Russell/Nomura Small Cap Index, excluding the Small Cap Core Index

After the December 2010 reconfiguration, the index contained 750 stocks. The company with the largest adjusted market capitalization was Ryobi (¥26.2bn) and the company with the smallest was Corona (¥5.9bn).

- **The Russell/Nomura Prime Index** is made up of the largest 1,000 stocks in terms of market capitalization, taking into consideration the “negative list” and “banding.” The “negative list” takes precedence over “banding.”³

After the December 2010 reconfiguration, the company with the largest market capitalization was Toyota Motor (¥5,414.3bn) and the company with the smallest was Kinki Sharyo (¥9.5bn).

¹ Until the 1 February 2002 reconfiguration, the number of stocks was no fewer than in the previous year and covered at least 98% of the market's total capitalization.

² Since the December 2007 reconfiguration, stocks are selected based on data for the 15th of the calendar month two months prior to the reconfiguration. For instance, the December 2007 reconfiguration was based on data as of 15 October 2007. Prior to that, data for the end of the calendar month two months prior to the reconfiguration were used.

³ The negative list and banding are applied only to the Prime Index.

(1) Negative list—this rule is meant to restrict the inclusion of stocks with exceptionally low liquidity. Stocks ranked 2,001st or lower⁴ in terms of average monthly trading value in the year to the base date for the regular reconfiguration are excluded.

(2) Banding method (900–1,100 rule)—this rule is meant to limit the frequent replacement of stocks owing to small changes in market capitalization. Stocks ranked 900 or higher by market capitalization adjusted for stable shareholdings are included in the index, regardless of whether or not they were included in the index prior to the reconfiguration. Stocks ranked 901 to 1,100 are included in the index only if they were included in the index prior to the reconfiguration, until 1,000 stocks have been selected. If 1,000 stocks have not been selected after going through the 1,100 stocks in this way, stocks ranked between 901 and 1,100 that were not included in the index prior to the reconfiguration are selected until a total of 1,000 stocks has been selected.

(3) Exclusions between regular reconfigurations⁵—this rule enables the exclusion of stocks that are likely to be removed from the index at the next regular reconfiguration because of a big decline in market capitalization. A stock will be removed from the Prime Index on the first business day of the month two months subsequent to the determination dates stipulated below, if the adjusted market capitalization of the stock falls below the minimum size criterion of 0.1% of the total adjusted market capitalization of the Total Market Index.

Determination date	Removal date
End-April	First business day of June
End-July	First business day of September
End-January	First business day of March

⁴ The ranking is based on the sample of stocks eligible for inclusion in the event of a regular reconfiguration of the Russell/Nomura Japan Equity Indexes.

⁵ The rule on exclusions between regular reconfigurations is applied only to the Prime Index, not to other subindexes. This rule became effective as of 1 June 2009 (the date of determination was the last business day of April, and the final inclusion was on the last business day of May).

Value and Growth Indexes are defined in terms of adjusted P/B ratios. Some stocks feature in both indexes.

- The Russell/Nomura Total Market Value Index is composed of stocks in the Russell/Nomura Total Market Index with low adjusted P/B ratios and includes the Russell/Nomura Large Cap Value Index and the Russell/Nomura Small Cap Value Index.
- The Russell/Nomura Total Market Growth Index is composed of stocks in the Russell/Nomura Total Market Index with high adjusted P/B ratios and includes the Russell/Nomura Large Cap Growth Index and the Russell/Nomura Small Cap Growth Index.
- The Russell/Nomura Large Cap Value Index is composed of stocks in the Russell/Nomura Large Cap Index with low adjusted P/B ratios and includes the Russell/Nomura Top Cap Value Index and the Russell/Nomura Mid Cap Value Index.
- The Russell/Nomura Large Cap Growth Index is composed of stocks in the Russell/Nomura Large Cap Index with high adjusted P/B ratios and includes the Russell/Nomura Top Cap Growth Index and the Russell/Nomura Mid Cap Growth Index.
- The Russell/Nomura Small Cap Value Index is composed of stocks in the Russell/Nomura Small Cap Index with low adjusted P/B ratios.
- The Russell/Nomura Small Cap Growth Index is composed of stocks in the Russell/Nomura Small Cap Index with high adjusted P/B ratios.
- The Russell/Nomura Top Cap Value Index is composed of stocks in the Russell/Nomura Top Cap Index with low adjusted P/B ratios.
- The Russell/Nomura Top Cap Growth Index is composed of stocks in the Russell/Nomura Top Cap Index with high adjusted P/B ratios.
- The Russell/Nomura Mid Cap Value Index is composed of stocks in the Russell/Nomura Mid Cap Index with low adjusted P/B ratios.
- The Russell/Nomura Mid Cap Growth Index is composed of stocks in the Russell/Nomura Mid Cap Index with high adjusted P/B ratios.
- The Russell/Nomura Mid-Small Cap Value Index is composed of stocks in the Russell/Nomura Mid-Small Cap Index with low adjusted P/B ratios. It includes the Russell/Nomura Small Cap Value Index and the Russell/Nomura Mid Cap Value Index.
- The Russell/Nomura Mid-Small Cap Growth Index is composed of stocks in the Russell/Nomura Mid-Small Cap Index with high adjusted P/B ratios. It includes the Russell/Nomura Small Cap Growth Index and the Russell/Nomura Mid Cap Growth Index.
- The Russell/Nomura Small Cap Core Value Index is composed of stocks in the Russell/Nomura Small Cap Core Index with low adjusted P/B ratios.
- The Russell/Nomura Small Cap Core Growth Index is composed of stocks in the Russell/Nomura Small Cap Core Index with high adjusted P/B ratios.
- The Russell/Nomura Micro Cap Value Index is composed of stocks in the Russell/Nomura Micro Cap Index with low adjusted P/B ratios.
- The Russell/Nomura Micro Cap Growth Index is composed of stocks in the Russell/Nomura Micro Cap Index with high adjusted P/B ratios.
- The Russell/Nomura Prime Value Index is composed of stocks in the Russell/Nomura Prime Index with low adjusted P/B ratios.
- The Russell/Nomura Prime Growth Index is composed of stocks in the Russell/Nomura Prime Index with high adjusted P/B ratios.
- There are also indexes based on the 33 industrial sectors, each with their various style indexes.

1. Some of the selection criteria for the market cap-based indexes were changed starting with the February 2002 regular reconfiguration. The previous rules were as follows:

- The Russell/Nomura Large Cap Index contains roughly the top 85% of the Russell/Nomura Total Market Index in terms of market capitalization. The number of stocks in the index is a multiple of 100 and not smaller than the number in the previous year.
- The Russell/Nomura Top Cap Index contains roughly the top 50% of the Russell/Nomura Total Market Index in terms of market capitalization. The number of stocks in the index is a multiple of 10 and not smaller than the number in the previous year.

2. The selection criteria for the Total Market Index were changed starting with the December 2002 reconfiguration. The previous rules were as follows:

- The Russell/Nomura Total Market Index covers more than 98% of the stocks listed on all markets. The number of accumulated stocks must not be less than in the previous year.

5. Index calculations

5-1. Index calculation methods

Russell/Nomura Japan Equity Indexes are share price indexes weighted according to market capitalization, in the following manner.

5-1-1. Calculation of market capitalization

Value inclusion factor = Value probability x (1 – stable shareholding ratio)

Growth inclusion factor = Growth probability x (1 – stable shareholding ratio)

Value no. of shares included = No. of shares outstanding for index purposes x Value inclusion factor

Growth no. of shares included = No. of shares outstanding for index purposes x Growth inclusion factor

Total no. of shares included = Value no. of shares included + Growth no. of shares included

Value market capitalization = Nomura composite share price x Value no. of shares included

Growth market capitalization = Nomura composite share price x Growth no. of shares included

Total market capitalization = Value market capitalization + Growth market capitalization

Value index market capitalization = Σ each stock's Value market capitalization

Growth index market capitalization = Σ each stock's Growth market capitalization

Total index market capitalization = Σ each stock's Total market capitalization

5-1-2. Calculation of index values

Indexes must be protected from changes in share price and market capitalization not influenced by market fluctuations. This is done by adjusting the base market capitalization as follows:

1. Index excluding dividends

$$\text{Base market cap}(t) = \text{market cap}(t - 1) + \text{adj market cap}(t)$$

$$\text{Return}(t) = \frac{\text{market cap}(t) - \text{base market cap}(t)}{\text{base market cap}(t)}$$

$$\text{Index}(t) = \text{index}(t - 1) \times (1 + \text{return}(t))$$

2. Index including dividends

$$\text{Base market cap}(t) = \text{market cap}(t - 1) + \text{adj market cap}(t) - \text{adj total dividends}(t)$$

$$\text{Return}(t) = \frac{\text{market cap}(t) + \text{total dividends}(t) - \text{base market cap}(t)}{\text{base market cap}(t)} - 1$$

$$\text{Index}(t) = \text{index}(t - 1) \times (1 + \text{return}(t))$$

Base market capitalization is adjusted in the following cases:

- When changes in capital structure for stocks that are constituents of the index cause an increase or decrease in market capitalization not due to market changes
- When changes in the composition of the index cause market capitalization to increase or decrease

5-1-3. Calculation of US dollar-denominated index values

1. Calculation method

The US dollar-denominated indexes are calculated based on the yen-denominated indexes and the exchange rate, using the following formula. Indexes including and excluding dividends are calculated.

$$\text{Dollar - denominated index value} = \frac{\text{yen - denominated index value} \times \text{exchange rate on base date for each index}}{\text{exchange rate}}$$

* See “Calculation period and base values for indexes” below.

2. Exchange rate

Calculations use the mid-rate announced by the Bank of Japan (USD/JPY, at 5pm)

5-2. Adjusting the base market capitalization

In the case of changes in a stock’s capital structure or in the composition of the index, base market capitalization is adjusted according to the following schedule. No adjustment to base market capitalization is made for capital changes not requiring payment, including free capital increases, stock splits, stock dividends, par-value changes, and capital reductions, as these do not affect market capitalization.

Fig. 14: Timing of changes to the index as a result of changes to the capital structure of constituent issues

Changes in equity capital	Date index changes	Share price used
Rights offering	Ex rights date	Issue price
Public offering	Business day following payment date (listing date of new shares when settlement is on the issuance date)	Previous day's price
Private placement	Five business days after the placement date	Previous day's price
Conversion of CB		
Conversion of preferred stock into common stock	Last business day of the month in which the conversion ratio becomes known	Previous day's price
Exercise of bond with warrant		
Exercise of stock option	Last business day of the month in which the number of shares per warrant becomes known	Previous day's price
Merger	Swap date	Previous day's price
Retirement of shares	Last business day of the following month in which the shares are retired	Previous day's price
Rights offering refusal	Last business day of the month following the month in which the rights offering refusal is announced	Previous day's price
Capital reduction with compensation	Date effective	Previous day's price
Stock swap	Swap date	Previous day's price
Corporate divestiture (continuing company, new stock)	Swap date	Previous day's price
Corporate divestiture (company/division spinoff*)	Ex rights date	Not used
Replacement	Replacement date	Previous day's price
Other adjustments	Other adjustments to the base market capitalization required are made on the last business day of the month in which the announcement of the relevant report (on the last business day of the following month when the announcement is within five business days of the month-end).	Share price when capital change reflected or closing price on day before adjustment

Note: *With a corporate divestiture (company/division spinoff), the base market capitalization is adjusted for the reduction in capital as follows: (1) when the company does not announce the value of the divested division or of the shares of the divested company, capital is reduced by the amount by which shareholders' equity is expected to be reduced, (2) when the company does announce the value of the divested division or of the shares of the divested company, capital is reduced by the value of the division or the value of the divested company's shares times the total number of shares.

Source: Nomura

5-3. Basic data

5-3-1. Determining the Nomura composite price

When stocks are listed on more than one exchange, the Nomura composite price is used as the price. The Nomura composite price adopts the price on the exchange with the most accurate price for that stock, based on the stock's percentage of days traded and total trading volume for the latest 60 days. The exchange is essentially selected daily.

The share price is selected according to the following order of precedence: (1) the special quotation price or continuous confirmed quote on the selected exchange, (2) the trade price on the selected exchange, (3) the standard quotation on the selected exchange, (4) a composite price for the previous trading day.

5-3-2. Calculating the stable shareholding ratio

In order to reflect the amount of stock that investors can actually invest in, market capitalization in Russell/Nomura Japan Equity Indexes strips out stable shareholdings—shares that are considered to be held on a stable basis and not traded—from outstanding shares. Please see chapter 8 for the stable shareholding ratio calculation method.

5-3-3. Calculating dividends per share

For those indexes including dividends, dividend data are reflected on an ex rights basis. However, on the date of issue, the amount of the dividend is not yet definite. Russell/Nomura Japan Equity Indexes therefore reflect dividends in the following manner.

First, Nomura's forecast dividend data (if unavailable, Toyo Keizai's forecast dividend data) are used on the ex rights date. In the event of a difference between the dividend forecast and the actual dividend, the base market capitalization is readjusted on the last trading day of the month of the earnings announcement, except that announcements made on the last day of the month are reflected at the end of the following month⁶.

5-3-4. Calculation period and base values for indexes

The base period for Russell/Nomura Japan Equity Indexes is end-December 1979 (= 100), that for the Small Cap Core Index and the Micro Cap Core Index is end-December 1999 (= 100), and that for the Prime Index is end-December 1996 (= 1,000).

⁶ Effective as of end-June 2007. Until then, readjustments were made on the first trading day of the following month.

6. Selection criteria for Russell/Nomura Japan Equity Indexes

6-1. Regular reconfigurations

6-1-1. Schedule

The indexes are reconfigured once a year on the first business day in December. Reconfiguration dates are as follows:

- 2001 and prior: First business day in January
- 2002: First business day in February
- From 2003: First business day in December (with the first reconfiguration occurring in December 2002)

6-1-2. Universe of stocks

All stocks trading on Japan's various markets at the end of March, plus large cap stocks that have newly traded since end-March or that have carried out stock transfers (see the section on unscheduled reconfigurations), are eligible for inclusion in the Total Market Index at the time of the regular reconfiguration, with the following exceptions.

- Equities other than common stock
As a rule, only common stock is included in Russell/Nomura Japan Equity Indexes. However, exceptions to this rule will be made if necessary.
- Stocks assigned for delisting
Stocks assigned for delisting are not included in the universe.
- Stocks under supervision (examination) and stocks under supervision (confirmation)
Stocks under supervision (examination) and stocks under supervision (confirmation) that are not part of the index composition immediately prior to regularly scheduled reconfigurations are not included in the universe.
- TOB target companies⁷
Stocks that are the targets of tender offers may be removed from the universe of stock selection if and only if the following requirements are met:
 - (1) The offer close date is between the base date of the stock selection⁸ and the reconfiguration date⁹.
 - (2) The company conducting the tender offer announces that it will acquire all of the shares it does not already own of the target company, and
 - (3) The company conducting the tender offer is planning to acquire all of the stock of the target company in exchange for money or stock of the company conducting the offer. In addition, the target company agrees to the offer.
- Listed investment trusts
Stocks included in listed investment trusts are in some cases already included in indexes. Listed investment trusts are therefore excluded in order to prevent problems with duplication.
- REITs
REITs are not included in the Russell/Nomura Japan Equity Indexes. The inclusion of REITs is a divisive issue that we continue to assess and review.

⁷ These changes to the index rules came into effect starting from the December 2010 regular reconfiguration.

⁸ Based on data as of the 15th day (or the preceding trading day if this falls on a nontrading day) of the month prior to the month preceding the regular reconfiguration (see page 21, section 6-1-3. Selection of stocks).

⁹ First business day in December (see page 20, section 6-1-1. Schedule).

- Foreign stocks
Stocks listed on foreign sections of Japanese exchanges or stocks regarded as overseas companies are excluded, even if these stocks are traded in the Japanese market.
- Other exceptions
Latent stock, warrants, and rights on them are excluded. The Bank of Japan is also excluded.
- Some markets for past data
JASDAQ stocks have been included in regular reconfigurations since January 1989 and stocks listed only on provincial exchanges in regular reconfigurations since January 1991. Prior to that, only stocks listed on the Tokyo, Osaka or Nagoya exchanges as at the end of November were eligible for inclusion in the Total Market Index.

6-1-3. Selection of stocks

Selection of stocks for the Total Market Index and size-based indexes is made according to adjusted market capitalization (excluding stable shareholdings)¹⁰. Selections are made based on data as of the 15th day (or the preceding trading day if this falls on a nontrading day) of the month prior to the month preceding the regular reconfiguration¹¹. Please see the next chapter, "Value/growth style classification," for details on index value and growth classifications.

- For the Total Market Index, stocks are ranked according to adjusted market capitalization. Stocks are added to the Total Market Index in descending order of market capitalization until over 98% of total market capitalization is represented and the number of stocks in the index is a multiple of 100¹².
- Total Market Index stocks are added to the Large Cap Index in descending order of market capitalization until total market capitalization is approximately 85% of the Total Market Index and the number of stocks is a multiple of 50¹³.
- The Small Cap Index contains approximately the bottom 15% of Total Market Index stocks by market capitalization and excludes the stocks in the Large Cap Index.
- The Top Cap Index contains roughly the top 50% of the Total Market Index stocks by market capitalization. The number of stocks in the Top Cap Index is a multiple of 10¹⁴.
- The Mid Cap Index contains approximately the middle 35% of the Total Market Index stocks by market capitalization and consists of Large Cap Index stocks not included in the Top Cap Index.
- The Mid-Small Cap Index contains approximately the bottom 50% of the Total Market Index stocks by market capitalization; it is a combination of the Mid Cap Index and the Small Cap Index and is the Total Market Index less the Top Cap Index.
- The Small Cap Core Index contains around the top 95% of the Total Market Index stocks by market capitalization, excluding the constituent stocks of the Large Cap Index. It represents the top-ranked stocks by market capitalization in the Small Cap Index, excluding Micro Cap stocks. The number of stocks in the Small Cap Core Index is a multiple of 50. The index comprises stocks that fall between the bottom 15% of the adjusted market capitalization of the Total Market Index and the bottom 5%, or about 10% of market capitalization.
- The Micro Cap Index comprises the Small Cap Index, excluding the stocks contained in the Small Cap Core Index. It thus represents about the bottom one-third of the stocks in the Small Cap Index and around 5% of the adjusted market capitalization of the Total Market Index.

¹⁰ Market capitalizations adjusted for stable shareholdings are calculated from the number of issued shares used to calculate the index.

¹¹ This rule is effective as of the December 2007 regular reconfiguration. Up to and including the regular reconfiguration of December 2006, selections were made based on data as of the last trading day of the month prior to the month preceding the regular reconfiguration.

¹² Until the February 2002 reconfiguration, the number of stocks was no fewer than in the previous year and covered at least 98% of the market's total cap.

¹³ Prior to the February 2002 reconfiguration, the number of stocks was a multiple of 100, no fewer than in the previous year, and covered at least 50% of the market's total cap.

¹⁴ Prior to the February 2002 reconfiguration, the number of stocks was a multiple of 10, no fewer than in the previous year, and covered at least 85% of the market's total capitalization.

- The Prime Index contains the top 1,000 stocks in the Total Market Index by market capitalization. However, the Prime Index takes into account the “negative list” and “banding,” with the “negative list” taking precedence over “banding.”¹⁵
 - (1) Negative list—this rule is meant to restrict the inclusion of stocks with exceptionally low liquidity. Stocks ranked 2,001st or lower¹⁶ in terms of average monthly trading value in the year to the base date for the regular reconfiguration are not included.
 - (2) Banding method (900–1,100)—this rule is meant to limit the frequent replacement of stocks owing to small changes in market capitalization. Stocks ranked 900 or higher in terms of float-adjusted market capitalization are included, regardless of whether or not they were included in the index prior to the rebalancing. Stocks ranked 901 to 1,100 are included in the index only if they were included in the index prior to the rebalancing, until 1,000 stocks have been selected. If 1,000 stocks are not selected after going through the 1,100 stocks in this way, stocks ranked between 901 and 1,100 that were not included in the index prior to the rebalancing are selected.
 - (3) Exclusions between regular reconfigurations¹⁷—this rule enables the exclusion of stocks that are likely to be removed from the index at the next regular reconfiguration because of a big decline in market capitalization. A stock will be removed from the Prime Index on the first business day of the month two months subsequent to the determination dates stipulated below, if the adjusted market capitalization of the stock falls below the minimum size criterion of 0.1% of the total adjusted market capitalization of the Total Market Index.

Determination date	Removal date
End-April	First business day of June
End-July	First business day of September
End-January	First business day of March

6-2. Unscheduled reconfigurations

6-2-1. Newly listed stocks¹⁸

Newly listed stocks for each quarter are determined at the end of the following month and if they are in the Large Cap Index in terms of market capitalization adjusted for stable shareholdings (the portion in the index in December is the number of stocks after the regular reconfiguration), then they are included in the index as of the first business day of the second following month.

Listing date	Determination date	Inclusion date
Jan–Mar	End of April	First business day in June
Apr–Jun	End of July	First business day in September
Jul–Sep	Reflected at the regular reconfiguration	
Oct–Dec	End of January	First business day in March

Source: Nomura

If newly listed stocks are in the Top Cap Index in terms of adjusted market capitalization (the portion in the index in December is the number of stocks after the regular reconfiguration), then they are included in the Top Cap Index; otherwise they are included in the Mid Cap Index.

¹⁵ Negative list and banding are applied only to the Prime Index.

¹⁶ The ranking is based on the sample of stocks eligible for inclusion in the event of a regular reconfiguration of the Russell/Nomura Japan Equity Indexes.

¹⁷ The rule on exclusions between regular reconfigurations is applied only to the Prime Index and not to other subindexes. This rule is effective as of 1 June 2009 (the date of determination was the last business day of April, the final inclusion was on the last business day of May).

¹⁸ This rule is effective as of June 2002 (inclusive).

6-2-2. Stock swaps and stock transfers¹⁹

Based on the following rules, stock rebalancing is carried out swiftly in view of the diversification of corporate reorganization. Changes to stocks in the indexes are made to take into consideration the situation following each cause of action on a case-by-case basis. The objective is to maintain the inclusion of the constituent stocks and avoid temporary exclusions from the indexes.

- **Stock swaps, mergers**
When a stock is delisted because of a merger or stock swap, it is excluded on the day of the merger. Following delisting, and until exclusion, the company's valuation will be based on the market value of the parent or surviving company multiplied by the merger or exchange ratio. Based on the merger ratio, the stable shareholding ratios of the surviving parent company and the merging company change. On the date of the merger, the surviving parent company or merging company moves to the highest-ranked size-based index to which the companies involved in the capital movement previously belonged.
- **Stock transfers**
In the case of an unlisted parent company that assumes the operations of another company and becomes listed in a short period of time, the stock of the subsidiary is removed from the indexes on the date of the parent company's listing. The price of the delisted subsidiary used is the price on the day before the delisting. On the date of the listing, the stock of the parent company is included in the highest-ranked size-based index to which the delisted subsidiary previously belonged. However, if the stock of the parent company is not included following the regular reconfiguration, the stock of the subsidiary will be excluded on the date of its delisting.

6-2-3. Removal of stocks

- **Assignment to securities to be delisted²⁰**
Stocks assigned as securities to be delisted will be removed from indexes four business days after the move (one business day later in the event the move to the liquidation post falls on a holiday). However, stocks that are listed on more than one market and continue to be traded on any one of the markets will not be removed.
- **Delisting**
Stocks delisted for any of the reasons other than those noted above are removed from indexes on the date of the delisting.
- **Marked loss of eligibility for inclusion in the universe of stocks**
In the case of an event, such as a merger or acquisition, which affects a constituent's eligibility for inclusion in the indexes, any removal decision will be made once there is an official announcement by the company, stock exchange, government or regulatory agency.
- **Exclusions between regular reconfigurations for Prime Index stocks²¹**
If, on any of the determination dates listed below, a Prime Index constituent stock's adjusted market capitalization falls below the minimum size criterion of 0.1% of the total adjusted market capitalization of the Total Market Index, it will be removed from the Prime Index (also from Prime Value Index, Prime Growth Index and Prime related sector indexes in the same manner) on the first business day of the second subsequent month. However, it will not be removed from other Russell/Nomura Japan Equity Indexes.

Determination date	Removal date
End-April	First business day of June
End-July	First business day of September
End-January	First business day of March

¹⁹ Effective starting with changes after April 2002.

²⁰ Effective from 21 April 2010; between 24 August 2009 and 20 April 2010, stocks assigned for delisting were removed on the third day following the move; between 29 December 2001, stocks assigned for delisting were removed on the date of the move.

²¹ Effective from 1 June 2009 (date of determination is last business day of April, final inclusion on last business day of May)

6-3. Announcement of reconfigurations

6-3-1. Regular reconfigurations

As a rule, index changes are announced on the website of Nomura Securities at 4pm (Tokyo time) on the first trading day of the month prior to the month in which the regular reconfiguration takes place, except but not limited to cases of unforeseen circumstances or when information cannot be confirmed.

Website: <http://qr.nomuraholdings.com/en/frcnri/index.html>

6-3-2. Unscheduled reconfigurations

As a rule, unscheduled index changes are announced on Nomura Securities' website about two weeks prior to the unscheduled reconfiguration, except but not limited to cases of unforeseen circumstances or when information cannot be confirmed.

Website: <http://qr.nomuraholdings.com/QR/FRCNRI/constituents.html>

7. Value/growth style classification

Composition and composition ratios for the value and growth indexes are determined using style probability. Style probability is the ratio of value and growth for each stock and is calculated based on a nonlinear probability function using price adjusted for valuation gain or loss over shareholders' equity (book value)—the adjusted P/B ratio. Excluding cases detailed in the section below, "Style classifications outside of regular reconfigurations," probability only changes in regular reconfigurations.

7-1. Adjusted P/B ratios

Adjusted P/B ratios are used to calculate style probability for value and growth. They are calculated as follows:²²

$$\text{Adjusted P/B} = \frac{\text{price} \times \text{number of shares outstanding}}{\text{shareholders' equity (BV)} + \text{marketable securities valuation gain/loss} - \text{unrecognized pension liabilities}}$$

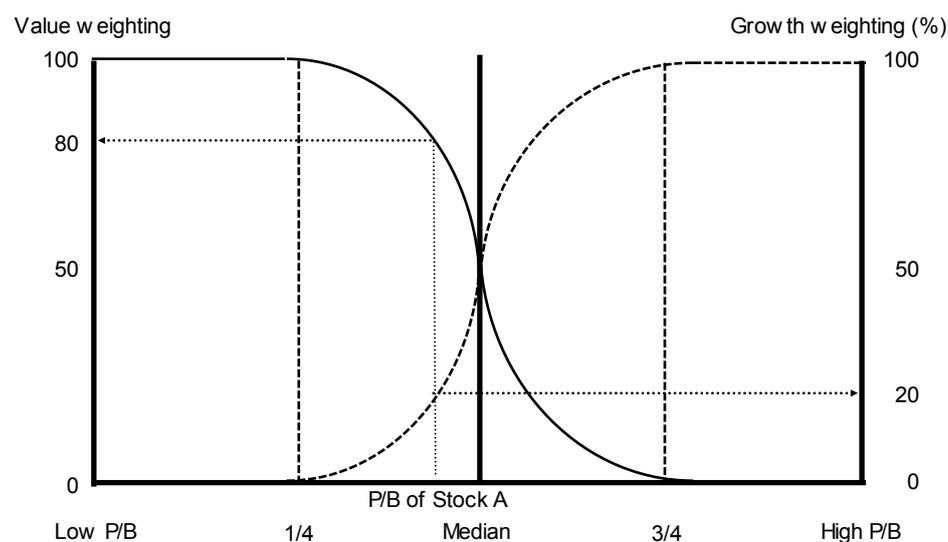
BV = book value

See Chapter 9, "P/B ratio adjustments," for details of unrecognized pension liabilities and valuation gain/loss calculations for marketable securities.

7-2. Value/growth classification method

Style probability, which is calculated based on a nonlinear probability function, is used for value/growth classification. This is the adjusted P/B ratio function, shown in Figure 15. Style probability for each stock is determined in such a way that the Total Market Index is evenly divided into value and growth by market capitalization (excluding stable shareholdings).

Fig. 15: Weightings are based on a nonlinear probability function



Source: Nomura

As shown in Figure 15, stocks at the median are divided 50%/50% in each style index. Stocks in the first quartile are 100% in the value index and those in the fourth quartile are 100% in the growth index. Stocks falling between these (ie, the second and third quartiles) have both value and growth probabilities that depend on their P/B ratios. The sum of growth and value probabilities must always be 100%.

²² P/B ratios are not adjusted for stable shareholdings.

7-2-1. Market capitalization of value and growth indexes

Companies with probabilities of 100% growth or 100% value are placed entirely in the growth or value indexes. Stocks that belong to both value and growth are weighted according to their probabilities. For example, Stock A in Figure 15 has an 80% probability of being a value stock and would have 80% of its available shares assigned to the value index and the remaining 20% to the growth index.

The market capitalization of the group of stocks between the stock with the lowest (or highest) P/B ratio and the median stock and that of the group of stocks between the first and the third quartile stocks are designed to be approximately 50% of overall market capitalization.

7-2-2. 5% rule

Stocks with probabilities of 95% or more are assigned to the corresponding style index with a weighting of 100%. Stocks with probabilities of 5% or less are assigned to the corresponding style index with a weighting of 0%. This serves to keep down the number of stocks with small weightings in the indexes. It also means that the proportion of stocks with probabilities of 100% growth or value is greater than 25%.

7-3. Style classifications outside of regular reconfigurations

7-3-1. Stock swaps, stock transfers, and mergers

- Stock swaps, mergers
In the case of the stock of an assuming parent company or acquirer, the style probability of the stock with changes in shareholders' equity is changed in light of the allocation ratio or the merger ratio. However, in the case of stock swaps and mergers taking place during the period from the first trading day of the month prior to the month preceding the regular reconfiguration up to the reconfiguration date, the abovementioned 5% rule does not apply in the calculation of the style probability²³.
- Stock transfers
In the case of a newly added stock of an assuming parent company, the style probability of the subsidiary is determined in light of the allocation ratio or the merger ratio. However, in the case of stock swaps and mergers taking place during the period from the first trading day of the month prior to the month preceding the regular reconfiguration up to the reconfiguration date, the abovementioned 5% rule does not apply in the calculation of the style probability²⁴.

7-3-2. Treatment of newly listed stocks

The style probability for newly listed stocks added quarterly is 100% value for the lowest quartile in terms of adjusted P/B, 100% growth for the highest quartile, and 50% value and 50% growth for the remaining two quartiles. For stocks other than newly listed stocks, the adjusted P/B is the value immediately before the regular reconfiguration and the style probabilities of these stocks are not changed.

²³ Rule effective from October 2007.

²⁴ Rule effective from October 2007.

8. Stable shareholding adjustments

These adjustments remove from the index stocks that are not traded in the market due to cross-shareholdings and stable shareholdings. The calculation of stable shareholdings is as follows²⁵.

- (1) Toyo Keizai's major shareholder data
- (2) Declarations of marketable securities holdings contained in securities filings

The data used are the latest data available as of the regular reconfiguration date²⁶. If there is data overlap, priority is given to the major shareholder data. However, we exclude from stable shareholdings shares thought to be for purely investment purposes.²⁷ No distinction is made between liquid assets (holdings deemed temporary) and fixed assets (holdings deemed long term) in the declarations of marketable securities holdings.

The stable shareholding ratio is calculated by dividing the number of stably held shares by the number of shares outstanding. The calculation method is explained in the next section. With the exception of adjustments outside of regular reconfigurations, described below, stable shareholdings are adjusted at each regular reconfiguration.

Stable shareholding ratios used in selecting stocks and calculating indexes employ a two-year moving average²⁸ of the single-year stable shareholding ratios.

8-1. Calculation method for stable shareholdings

The number of stable shareholdings is the total of Group 1 and Group 2.

Fig. 16: Calculation of stable shareholdings

Group 1 = the number of shares held by major shareholders
Group 2 = the number of shares recorded in company reports (excluding Group 1)
Total stable shareholdings = Group 1 + Group 2

Source: Nomura

The calculation of stable shareholdings was adjusted because of changes in accounting standards. For reference, the previous calculation method is listed in a section below.

8-2. Stable shareholding adjustments outside regular reconfigurations²⁹

- Third-party placements

The stable shareholding ratio is adjusted as follows on the day in which the number of shares is adjusted owing to a new share issuance via a third-party placement (five days after the day in which a stock is moved to a new exchange).

Stable shareholding ratio after adjustment = (stable shareholding ratio prior to adjustment x number of shares outstanding for index purposes prior to the third-party placement + the change in shares outstanding as a result of the third-party placement) / (number of shares outstanding for index purposes prior to the third-party placement + the change in shares outstanding as a result of the third-party placement)

Shares issued in third-party placements are regarded as stable shareholdings. This ensures that the number of shares included in index calculations, which is adjusted for stable shareholdings, remains the same both before and after the third-party placement.

²⁵ In regular reconfigurations through January 1985, major shareholder data from the Nihon Keizai Shimbun were used instead of (1) and (2) above.

²⁶ In some cases, public information such as company prospectuses and stock exchange releases were used as references.

²⁷ Stocks held for purely investment purposes include those in funds managed by domestic trust banks and life insurers (eg, pension funds, investment trusts), as well as those held by foreign banks, venture capital companies, etc.

²⁸ Three-year moving average used in regular reconfigurations between January 1998 and December 2003; no moving average used before the January 1997 regular reconfiguration

²⁹ Applied from 1 December 2004

- Share buybacks

If the stable shareholding ratio changes due to a share buyback, the shareholding ratio will be adjusted on the day the share adjustment occurs.

Stable shareholding ratio after adjustment = (stable shareholding ratio prior to adjustment x number of shares outstanding for index purposes prior to the share buyback + the change in shares outstanding as a result of the share buyback) / (number of shares outstanding for index purposes prior to the share buyback + the change in shares outstanding as a result of the share buyback)

This ensures that the number of shares included in index calculations, which is adjusted for stable shareholdings, remains the same both before and after the share buyback.

- Conversion of preferred shares, merger with or acquisition by an unlisted company, tender offer by an unlisted company, etc

The stable shareholding ratio is adjusted if a transfer of capital in such forms as the conversion of preferred shares, a merger with or acquisition by an unlisted company, or a tender offer by an unlisted company causes dramatic change in stable shareholdings.

- Stock swaps, mergers

The stable shareholding ratios of the wholly owning parent or the merging company are changed based on the merger or exchange ratio.

- Announcements

Announcements are based on the rules for unscheduled reconfigurations (see page 24).

8-3. Ref: Previous calculation method for stable shareholdings

- Nonbanking stable shareholdings in regular reconfigurations from January 1986 to January 2001

As for nonbanking stable shareholdings in regular reconfigurations from January 1986 to January 2001, Group 1 data are based on the number of shares held by the top 10 shareholders.³⁰

- Bank stocks in regular reconfigurations from January 1986 to January 1999

Bank stocks have a large number of stable shareholders but relatively small holdings per shareholder and declarations of marketable securities holdings could only be obtained for stocks listed on the Tokyo Stock Exchange, so more extensive adjustments were needed. After interviewing banks, we determined that the above estimated values based on Group 1 and Group 2 had not been sufficiently adjusted and carried out the following further adjustments. Stable shareholdings for bank stocks are the total of Group 1, Group 2, and Group 3.

Group 3 = the number of shares not recorded in securities filings (the average number of shares held by each holder in Group 2 x the estimated number of shareholders not listed in securities filings)

Small shareholder holdings (Group 3) that do not appear in published data are estimated using the following method. First, the number of shares included in Group 2 is determined. Next, Group 3 is deduced from Group 1, Group 2, and the stable shareholder ratios obtained from bank interviews. The result is an average value for Group 3 of approximately 50% of Group 2. The average shareholdings in Group 2 are then multiplied by 1.5,³¹ producing a combined figure for Group 2 and Group 3. For example, the average holding ratio per stock for Group 2 is 1%. If Group 2 subsumes 40 shareholders, the shareholding ratio for Group 2 is 40%. Since the figure for Group 3 is half that of Group 2, 1.5 multiplied by 40 produces 60% as the combined shareholding ratio for Group 2 and Group 3. If Group 1 is 15%, the total stable shareholding ratio is 75%.

This method is not used for nonbanking shares, because for nonbanking industries most stable shareholdings can be determined from Group 1 and Group 2. Further adjustment is required for banks because identifying their shareholding ratios is difficult.

³⁰ We count the number of shares held by all shareholders included in declarations of marketable securities holdings because the number listed in these declarations fell following changes to accounting standards in the financial year ended March 2001.

³¹ Adjustments were made using a multiple of 1.5 for data in company reports for TSE-1 and TSE-2 stocks after 1995 and a multiple of 1.6 for TSE-1 company reports in 1994 and earlier. Since 1999, it has been possible to use company reports for all listed and JASDAQ stocks. Using these, stable shareholding ratios were calculated with several patterns and in light of the results of interviews with banks, the Group 3 adjustment was considered unnecessary and discontinued.

- Regular reconfigurations up to January 1985

Major shareholder data and declarations of marketable securities holdings are only available from 1985. Data through the January 1985 regular reconfiguration are calculated using the following method.

- Stocks existing after 1985 for which major shareholder data are available for 1984 and earlier

When a company still exists and the major shareholder data are available for 1984 and earlier, stable shareholding ratios are estimated as follows:

$$\text{Stable shareholding ratio} = \text{stable shareholder ratio for top } n \text{ major shareholders} \times \text{individual stock adjustment multiple}$$

Here, n is the number of stocks (up to 10) at each point in time before 1984. The adjustment multiple is the 1985–87 average of the ratios of shareholdings of the top n major shareholders to the shareholdings of all stable shareholders.

- Stocks not existing after 1985 for which major shareholder data are available for 1984 and earlier

When a company no longer exists but major shareholder data are available for 1984 and earlier, stable shareholding ratios are estimated as follows:

$$\text{Stable shareholding ratio} = \text{stable shareholder ratio for top } n \text{ major shareholders} \times \text{sector adjustment multiple}$$

Again, n is the number of stocks (up to 10) at each point in time before 1984. The sector adjustment multiple is the average, weighted for the number of shares outstanding adjusted for lot size for 1985–87, of the ratios of the stable shareholdings of the sector to which the stock in question belongs to the shareholdings of all stable shareholders.

- Stocks not existing after 1985 for which major shareholder data are not available for 1984 and earlier

When a company no longer exists and major shareholder data are not available for 1984 and earlier, the average, weighted for the number of shares outstanding adjusted for lot size for 1985–87, of the stable shareholding ratio for the sector to which the stock in question belongs is used.

9. P/B ratio adjustments

P/B ratios adjusted for unrealized gains/losses are used to classify stocks in value and growth indexes. In Japan, the value of assets on the balance sheet is not necessarily market value. To classify value and growth properly, shareholders' equity is used. Unrealized gains or losses on assets are determined by estimating the market value of assets and subtracting book value. For the Russell/Nomura Japan Equity Indexes, P/B ratios are adjusted for unrealized gains/losses on marketable securities and unrecognized retirement benefit obligations³². P/B ratios are adjusted according to the following equation³³.

$$\text{Adjusted P/B} = \frac{\text{price} \times \text{number of shares outstanding}}{\text{shareholders' equity (BV)} + \text{marketable securities unrealized gain/loss} - \text{unrecognized pension liabilities}}$$

BV = book value

Unrealized gains and unrecognized liabilities are after tax. Shareholders' equity adjustments are as follows.

9-1. Shareholders' equity (book value)

Shareholders' equity³⁴ for the latest fiscal year is used. In terms of priority given to consolidated or parent accounts, first priority is given to the latest Japanese GAAP consolidated accounts, then the latest US GAAP consolidated accounts, then to the latest parent data. Values are adjusted for changes in capital structure that have arisen between the fiscal year-end and the regular reconfiguration reference date and used as the shareholders' equity component in the adjusted P/B ratio calculation.

9-2. Holdings of marketable securities

Mark-to-market accounting has applied since FY00 financial results. Securities holdings are classified as follows:

Classification	Value on the balance sheet
Trading securities	Market value
Held-to-maturity securities	Amortized cost
Available-for-sale securities	Cost or market (but market value starting with FY01 financial results)

Source: Nomura

The Russell/Nomura Japan Equity Indexes are not adjusted for unrealized gains/losses on trading securities and held-to-maturity securities. Hence, trading securities are recognized at market value and held-to-maturity securities at the value based on amortized cost. Some available-for-sale securities were valued at cost for FY00 financial results, but for the indexes they are valued at fair market value.

Market prices of stocks are adjusted by the return on the TOPIX between the end of the fiscal year and the date the adjusted P/B³⁵ is calculated. A uniform effective tax rate of 40% is assumed and an adjustment is made for 60% of the unrealized gains/losses.

$$\text{Adjusted stock price} = \text{StockMV}_{FTERM} \times \left(\frac{\text{TOPIX}_{NOV}}{\text{TOPIX}_{FTERM}} - 1 \right) \times 60\%$$

StockMV = market value of marketable equities

TOPIX = the value of the TOPIX

Nov = adjusted P/B calculation date

FTERM = the latest fiscal year that has now ended

³² P/B ratios were also adjusted for land valuations gains/losses through the December 2003 regular reconfiguration.

³³ Adjusted P/B ratios are not adjusted for stable shareholdings.

³⁴ Includes interim and quarterly data, but excludes paid-in funds for new shares

³⁵ Since the regular reconfiguration in December 2007, we use data for the 15th of the month two months prior to reconfiguration. For example, data for 15 October 2007 were used for the regular reconfiguration on 1 December 2007. Previously, data for the end of the month two months prior to the regular reconfiguration were used.

9-2-1. Ref: Previous calculation methods

A. Treatment of taxes

Previously, pretax unrealized gains/losses were based on the adjusted P/B calculation. With the application of mark-to-market accounting and tax allocation accounting in recent years, after-tax unrealized gains/losses have been used since the February 2002 reconfiguration.

B. Prior to the introduction of mark-to-market accounting

(1) Regular reconfigurations from January 1992 to January 2001

Market value data are used for holdings of marketable securities.³⁶ When there is a gap between the publication of market value data (the fiscal year-end) and the time of data collection (November of each year), the market value of stocks is adjusted using the TOPIX return. Data from the time of the publication of market value figures are used for the market value of other assets, as well as the book value of all assets.

$$MV_{NOV} = StockMV_{FTERM} \times \frac{TOPIX_{NOV}}{TOPIX_{FTERM}} + OthersMV_{FTERM}$$

MV = market value of marketable securities

StockMV = market value of marketable equities

OthersMV = market value of marketable securities other than equities

TOPIX = the value of the TOPIX

Nov = the time when data were gathered (November)

FTERM = the latest fiscal year that has now ended

(2) Prior to the January 1991 regular reconfiguration

- Nonfinancial stocks

Market value data for holdings of marketable securities have only existed since 1991. The hidden value of marketable securities for 1990 and earlier is calculated only if market value data have been published since 1991 and past marketable securities are contained in the declarations of marketable securities holdings. Otherwise hidden assets are set to zero. For points in time before market value data were published, past values are estimated from current data:

If the book value of marketable securities has increased:

$$MV_{t-1} = (MV_t - (BV_t - BV_{t-1})) \times \frac{StockMV_t}{MV_t} \times \frac{TOPIX_{t-1}}{TOPIX_t} + (MV_t - (BV_t - BV_{t-1})) \times \frac{MV_t - StockMV_t}{MV_t}$$

If the book value of marketable securities has decreased:

$$MV_{t-1} = MV_t \times \frac{StockMV_t}{MV_t} \times \frac{BV_{t-1}}{BV_t} \times \frac{TOPIX_{t-1}}{TOPIX_t} + MV_t \times \frac{MV_t - StockMV_t}{MV_t}$$

MV = market value of marketable securities

StockMV = market value of marketable equities

BV = book value of marketable securities

TOPIX = the value of the TOPIX

- Financial stocks

Financial stocks generally have large hidden assets with a major impact on shareholders' equity. For stocks that have published market value data since 1991, book value is estimated even if book value data do not exist for periods before 1991. A backward-looking estimate is carried out using the oldest book value data available prior to 1991. For these estimates, the rate of increase or decrease in individual stocks is assumed to agree with the rate of increase or decrease found in Japan's National Accounts, under the entry for corporate shares (book value) of financial institutions.

³⁶ Since only TSE, OSE, and NSE First and Second Section stock data are available for 1999 and earlier, unrealized gains/losses are assumed to be zero for stocks that trade only on a regional exchange and JASDAQ stocks.

9-3. Adjustments for unrecognized pension liabilities

New accounting standards for pension liabilities took effect starting with FY00 financial results. Reserves for the unfunded portion of the pension obligation, or the pension obligation minus pension plan assets, are recognized on the balance sheet as a rule, but can be done so over time. This unrecognized portion is a potential liability that will have to be dealt with in the future. Recognition of the unfunded portion of the pension obligation differs depending on the company, with some having recognized substantial reserves on their balance sheets and others having a large amount of unrecognized pension liabilities. For appropriate value/growth classifications, P/Bs are adjusted for unrecognized pension liabilities (starting with the February 2002 regular reconfiguration since the new pension accounting standards took effect starting with FY00 financial results).

Specifically, the following three unrecognized pension liability items disclosed in securities filings are deducted from shareholders' equity at 60% of their combined³⁷ book value, on the assumption of a uniform 40% effective tax rate:

- Unrecognized benefit obligation at transition
- Actuarial assumption adjustment
- Unrecognized prior service costs

9-4. Ref: Landholdings (through the December 2003 regular reconfiguration)

The book and market values of land assets have differed greatly in the past, but by how much has varied from company to company. Through the December 2003 regular reconfiguration, unrealized gains/losses on land were calculated using available data and adjusted P/B ratios were derived via the following formula:

$$\text{Adjusted P/B} = \frac{\text{price} \times \text{number of shares outstanding}}{\text{shareholders' equity (BV)} + \text{land (MV - BV)} + \text{marketable securities (MV - BV)} - \text{unrecognized pension liabilities}}$$

Through the December 2003 regular reconfiguration, unrealized gains/losses on land were based, when possible, on data from reassessed land market values. When these were not available, they were based on land tax data³⁸. However, land taxes have been frozen since 1998 and valuation amount calculations using land tax data since that time may be less accurate. Mark-to-market valuation of real estate available for sale was introduced in FY00 and the early adoption of impaired asset accounting was allowed from FY03. This has meant that mark-to-market values are fully reflected in companies' financial statements. For this reason, P/B ratios were no longer adjusted for land valuation gains/losses as of the December 2004 regular reconfiguration.

Calculations of unrealized gains/losses on land through the December 2003 regular reconfiguration are detailed below.

9-4-1. Calculation method for unrealized gains/losses on land

- Companies with revalued land

When land is revalued, revaluation gains/losses after tax are calculated as follows:

Fig. 17: Balance sheet impact of reassessed land values

Assets	Liabilities	
Gains/losses on the revaluation of land	Deferred tax liability stemming from the revaluation	Equity
	Net gains/losses on the revaluation	
Book value before reassessment		

Source: Nomura

³⁷ Since new pension accounting took effect from March 2001 fiscal year-ends, we applied our adjustments from the 1 February 2002 regular reconfiguration.

³⁸ In the cases of companies that did not revalue their landholdings and for which land tax data were not available, unrealized gains/losses on landholdings were set to zero.

The book value before the revaluation plus the gains/losses on the revaluation is the book value after the revaluation. The footnotes of companies' securities filings include the difference in value at the time of the revaluation and at the end of the fiscal year of the filing. The hidden value of the land asset is calculated in the following manner:

$$\text{Unrealized gains/losses on land} = \text{revaluation difference} - \text{difference between the value at the time of revaluation and the end of the fiscal period} \times 60\%$$

The 60% represents the after-tax amount, assuming a 40% effective tax rate.

- Calculation method for companies with no revalued land but with land tax data available

For stocks with no revalued land but with land tax data available, values based on the latest land tax data are used, factoring in the increase or decrease³⁹ during the period. A uniform effective tax rate of 40% is assumed. The details of the calculation are as follows:

$$MV_t = (1 + R_t)MV_{t-1} \times \frac{BV_{t-1} - DV_t}{BV_{t-1}} + AV_t$$

$$\text{Unrealized gain/loss} = (MV_t - BV_t) \times 60\%$$

MV_t = value of land at time t

BV_t = book value of land at time t

AV_t = increase in value over period t

DV_t = decrease in value over period t

R_t = change in land price index at time t

The land price indexes used were as follows:

- For manufacturing, electric power, and gas companies: land price index for six major cities (industrial land)
- For nonmanufacturing companies other than electric power and gas companies: land price index for six major cities (commercial land)

These land price indexes are released twice a year by the Japan Real Estate Institute. The calculation of unrealized gains/losses on land was adjusted because of changes in accounting standards. For reference, the earlier calculation method follows.

9-4-2. Earlier calculation method

A. Treatment of taxes

Until the January 2001 regular reconfiguration, adjusted P/B ratios were calculated using pretax unrealized gains/losses.

B. The introduction of land value taxes (from the January 1994 reconfiguration to the January 1999 reconfiguration)

Land has been revalued since FY97. Land value taxes were assessed from 1993 to 1998. Unrealized gains/losses on land were estimated using land tax data for 1993–99.

Land value tax was assessed on the value of land as of 1 January of each year. Land value tax was essentially calculated in the following manner:

$$\text{Land value tax} = (\text{total market value of land} - \text{market value of nontaxable portion} - \text{basic exemption}) \times \text{tax rate}$$

The basic exemption for companies with capital of ¥100mn or greater was defined as the greater of taxable land area x ¥30,000 or ¥1bn. However, because the basic exemption complicates the estimate in question, it is set to zero. The nontaxable portion is also set to zero, except for East Japan Railway, electric power companies, and gas companies. In order to estimate market value, individual stocks are divided into the following three industry categories:

- (1) General businesses
- (2) East Japan Railway, electric power companies, and gas companies
- (3) Large companies with real estate divisions

³⁹ Increases and decreases in asset value are disclosed in the property, plant & equipment section for all industries. Using this data, we calculate unrealized gains/losses on land.

(1) General businesses

Because general businesses all pay tax at the same rate, if the land value tax the company pays is (PT_t) and the tax rate is (TR_t), the market value of real estate held by each company can be calculated as follows:

$$MV_t = \left(\frac{PT_t}{TR_t} \times (1 + R_t) \right) \div 0.8$$

MV_t = value of land at time t

PT_t = land tax at time t

TR_t = land tax rate at time t

Land tax rates :

$$TR_{199311} = 0.2\%$$

$$TR_{199411} = 0.3\%$$

$$TR_{199511} = 0.3\%$$

R_t = percentage change in the land price index between the time of land value tax assessment (January of the preceding year) and the time of data acquisition (November each year)

$$R_{199511} = \left(\frac{PRC_{199511}}{PRC_{199401}} - 1 \right) \times 100(\%)$$

PRC_t = value of land price index at time t

199401 = time when land tax was levied (January 1994)

The estimated market value is divided by 0.8 because the value of the land that the tax is assessed on is set at 80% of the published standard land value.

(2) East Japan Railway, electric power companies, and gas companies

East Japan Railway, electric power companies, and gas companies do not pay taxes on land⁴⁰ that is used in the public interest and thus pay little land value tax despite the large book value of their land. The market value of taxable land, deduced from the land value tax, is added to the book value of the tax-exempt land to arrive at an estimate of market value. The market value of the land not taxed is thus assumed to be the same as the book value of that land.

Estimated market value is calculated using the following equation:

$$MV_t = \left(\frac{PT_t}{TR_t} \times (1 + R_t) \right) \div 0.8 + BV_{notax_t}$$

BV_{notax_t} = book value (= market value) of untaxed land at time t

⁴⁰ This includes railways, electric power stations, and gas production facilities.

(3) Companies with real estate divisions

Land value tax was assessed at a lower rate on commercial land held as inventory assets than on fixed asset land, generally at one-fifth the rate for fixed assets. Companies with real estate divisions have land for sale in inventory and also prime housing lots taxed at exceptional rates. These two additional factors make deducing market value from the land value tax difficult. Therefore, for 23 particularly large companies⁴¹ of this nature, consideration has also been given to the market value of housing lots. The tax rate is calculated at one-fifth the rate for the housing lot portion of inventory assets⁴².

$$MV_t = \left[\frac{PTa_t}{TR_t} \times (1 + Ra_t) + \frac{PTb_t}{TR_t} \times (1 + Rb_t) \times 5 \right] \div 0.8$$

PTa_t = land value tax on land taxable at normal rates at time t

PTb_t = land value tax on land taxable at extraordinary rates at time t

Pa_t = rate of change in land price index (commercial land price index) for land taxable at normal rates at time t

Pb_t = rate of change in land price index (residential land price index) for land taxable at extraordinary rates at time t

(4) Calculating land market value for stocks for which land value tax data are unavailable

When the amount of the land value tax is unknown, market value is estimated from the sector-average market value multiple for the fiscal year in question. Stocks that have no land book values either are assumed to have little or no land and hidden value is set at zero.

C. The period before the land value tax was in force and after its repeal (through the January 1993 regular reconfiguration)

Russell/Nomura Japan Equity Indexes were launched in 1995. As such, for periods before the land value tax was in force, unrealized gains/losses are estimated.

When the land book value (BV) at time t is greater than at time t-1, the market value of the land of the company in question is assumed to have grown in value at the rate of the Japan Real Estate Institute's land price index.

If $BV_t > BV_{t-1}$

$$MV_t = (1 + R_t) MV_{t-1} + (BV_t - BV_{t-1})$$

MV_t = price of land at time t

BV_t = book value of land at time t

R_t = rate of change in land price index at time t

If the land book value (BV) at time t is less than at time t-1, the market value of the land of the company is also assumed to have grown in value at the rate of the land price index, but the difference between the book value at time t and t-1 is then subtracted.

That is, if $BV_t < BV_{t-1}$, then

$$MV_t = MV_{t-1} \times \frac{BV_t}{BV_{t-1}} \times (1 + R_t)$$

⁴¹ Railway companies are among the 23 companies mentioned. These companies have railway segments and landholdings directly connected to railway operations are exempt from tax. That said, since the ratio of the book value of land at the railway segments of these companies is comparatively small, unlike in the cases of JR companies and others, we ignore the nontaxable portion.

⁴² Since special tax rates do not apply to condominium land sites, the market value of the inventory portion of assets is overvalued, but since we have not taken into account basic exemptions and the nontaxable portions of tangible fixed assets, we think that these assets are well undervalued. We think that these factors largely offset each other.

10. Data publication services

Data for the Russell/Nomura Japan Equity Indexes can be obtained via the following channels.

- Index values are published in the following media:
 - * Bloomberg (RNJI)
 - * Jiji (SQ21, SQ22, SQ23, SQ24)
 - * QUICK (NRIJ500–503, 510–517)
 - * Reuters (FRCNRI01, FRCNRI02, FRCNRI03, FRCNRI04)
 - * Our website (<http://qr.nomuraholdings.com/en/frcnri/index.html>)
- Daily index values for the Russell/Nomura Prime Index are published in the following media:
 - * Bloomberg (RNPJ <INDEX>)
 - * Jiji (RT14 or RNPF/2)
 - * QUICK (140)
 - * Reuters (.JRN)
 - * Our website (<http://qr.nomuraholdings.com/en/frcnri/index.html>)
- Daily index values for the Russell/Nomura Small Cap Core Index are published in the following media:
 - * Bloomberg (RNSCC <INDEX>)
 - * Jiji (RT14 or RNSCC/NOMURA)
 - * QUICK (130)
 - * Reuters (.JRNSC)

- More detailed data

More detailed data on index values and individual stock information can be obtained through Nomura Research Institute services Aurora, e-Aurora, and IDS.

For information, contact:

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- Monthly report:
 - Russell/Nomura Japan equity index performance summary

While every effort is made to ensure that the information used in this report and all published information is based on reliable data, it should be noted that at times, data may have changed or been amended.

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Appendix A-1

Any Authors named on this report are Research Analysts unless otherwise indicated

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