

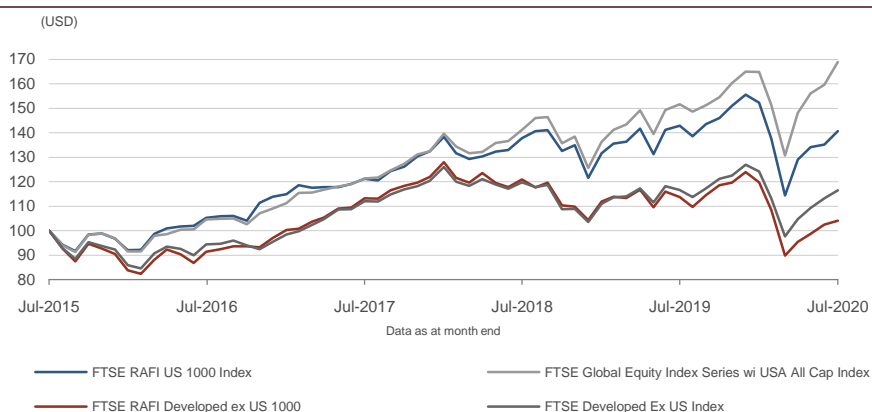
FTSE RAFI™ Index Series

Data as at: 31 July 2020

FTSE partners with Research Affiliates on the FTSE RAFI Index Series. Index constituents are weighted using a composite of fundamental factors, including total cash dividends, free cash flow, total sales and book equity value. Prices and market values are not determinants of the index weights. Consequently the indexes are less prone to excessive concentration arising from market fads, which can result in over-exposure to individual companies, sectors or countries.

The headline FTSE RAFI US 1000 Index is comprised of the largest 1000 US companies ranked by fundamentals in the FTSE Global Equity Index Series (GEIS). Similarly, the FTSE RAFI Developed ex US Index is comprised of the 1000 largest companies ranked by fundamentals from Developed countries in GEIS, excluding the US.

5-Year Performance - Total Return



Performance and Volatility - Total Return

Index (USD)	Return %						Return pa %*		Volatility %**		
	3M	6M	YTD	12M	3YR	5YR	3YR	5YR	1YR	3YR	5YR
FTSE RAFI US 1000 Index	9.0	-7.7	-9.6	-1.6	16.1	40.7	5.1	7.1	36.0	20.9	16.6
FTSE Global Equity Index Series w/ USA All Cap Index	14.0	2.4	2.4	11.4	39.1	68.9	11.6	11.0	33.8	19.7	15.6
FTSE RAFI Developed ex US 1000	9.0	-13.1	-16.0	-8.5	-8.1	4.1	-2.8	0.8	26.2	21.6	16.5
FTSE Developed Ex US Index	11.2	-6.3	-8.3	-0.2	3.9	16.4	1.3	3.1	22.9	19.2	14.9

* Compound annual returns measured over 3 and 5 years respectively

** Volatility – 1YR based on 12 months daily data. 3YR based on weekly data (Wednesday to Wednesday). 5YR based on monthly data

Year-on-Year Performance - Total Return

Index % (USD)	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
FTSE RAFI US 1000 Index	20	0.1	17.2	35.7	12.6	-2.5	17.6	16.4	-8.3	28
FTSE Global Equity Index Series w/ USA All Cap Index	17	1.1	16.4	33.4	12.5	0.5	12.5	21.5	-5.2	31.3
FTSE RAFI Developed ex US 1000	7.5	-14.3	15.9	25.4	-4.8	-4.8	7.3	25.7	-14.5	18.8

FEATURES

Coverage

The FTSE RAFI Index Series provides global coverage through a range of country and regional indexes derived from the FTSE RAFI Developed ex US Index. FTSE RAFI indexes are also available covering Small Cap and Emerging Markets.

Objective

The indexes are designed for the creation of a range of financial products, including index-linked funds, ETFs and over-the-counter (OTC) products.

Liquidity

Stocks are screened to ensure that the indexes are tradable.

Transparency

Index methodologies are freely available on the FTSE Russell website.

Availability

The indexes are calculated based on price and total return methodologies.

Industry Classification Benchmark (ICB)

Index constituents are categorized in accordance with the Industry Classification Benchmark (ICB), the global standard for industry sector analysis.

Methodology

See www.ftserussell.com for a full explanation of the FTSE RAFI methodology.

Return/Risk Ratio and Drawdown - Total Return

Index (USD)	Return/Risk Ratio				Drawdown (%)			
	1YR	3YR	5YR	10YR	1YR	3YR	5YR	10YR
FTSE RAFI US 1000 Index	0.0	0.3	0.4	0.8	-38.1	-38.1	-38.1	-38.1
FTSE Global Equity Index Series w/ USA All Cap Index	0.3	0.6	0.7	1.0	-34.9	-34.9	-34.9	-34.9
FTSE RAFI Developed ex US 1000	-0.3	-0.1	0.0	0.2	-38.4	-41.1	-41.1	-41.1

Return/Risk Ratio – based on compound annual returns and volatility in Performance and Volatility table

Drawdown - based on daily data

Index Characteristics

Attributes	FTSE RAFI US 1000	FTSE USA All Cap	FTSE RAFI Developed ex US 1000	FTSE Developed Ex US
Number of constituents	1003	1777	1032	1559
Dividend Yield %	2.86	1.75	4.07	3.40
Constituent (Wgt %)				
Average	0.10	0.06	0.10	0.06
Largest	3.77	5.48	1.66	2.13
Median	0.03	0.01	0.05	0.02
Top 10 Holdings (Wgt %)	17.66	23.41	10.63	11.36

ICB Supersector Breakdown - US

ICB Code	ICB Supersector	FTSE RAFI US 1000		FTSE USA All Cap		Diff %
		No. of Cons	Wgt %	No. of Cons	Wgt %	
0500	Oil & Gas	55	6.84	80	2.43	4.41
1300	Chemicals	28	1.81	45	1.45	0.35
1700	Basic Resources	18	0.89	30	0.57	0.32
2300	Construction & Materials	26	0.91	49	0.89	0.02
2700	Industrial Goods & Services	159	11.21	273	10.82	0.39
3300	Automobiles & Parts	21	2.04	23	1.12	0.91
3500	Food & Beverage	33	3.55	51	2.77	0.78
3700	Personal & Household Goods	54	4.48	89	4.19	0.29
4500	Health Care	70	11.33	205	13.58	-2.25
5300	Retail	68	9.49	107	9.60	-0.11
5500	Media	36	2.75	52	3.04	-0.29
5700	Travel & Leisure	40	1.67	74	1.99	-0.31
6500	Telecommunications	6	3.92	13	1.70	2.22
7500	Utilities	48	4.33	60	3.03	1.30
8300	Banks	57	4.85	116	2.70	2.15
8500	Insurance	46	5.51	65	3.29	2.22
8600	Real Estate	105	3.23	164	3.79	-0.56
8700	Financial Services	51	5.84	74	5.92	-0.08
9500	Technology	82	15.34	207	27.11	-11.77
Totals		1003	100.00	1777	100.00	

INFORMATION

Index Universes

FTSE USA All Cap Index

FTSE Developed All Cap ex US Index

Index Series Launch

28 November 2005

Base Date

30 September 2005

Base Value

5000

Index Calculation

Real-time and end-of-day indexes available

End-of-Day Distribution

Indexes available at 2100 hours GMT / FTSE

RAFI Eurozone Index - 1630 hours GMT

Via FTP and email

Currency

USD, CAD, EUR, GBP, JPY and Local (where specified)

Review Dates

Annually in March

ICB Supersector Breakdown - Developed ex US

ICB Code	ICB Supersector	FTSE RAFI Developed ex US 1000		FTSE Developed Ex US		Diff %
		No. of Cons	Wgt %	No. of Cons	Wgt %	
0500	Oil & Gas	52	7.71	52	4.27	3.44
1300	Chemicals	49	3.61	69	3.27	0.33
1700	Basic Resources	55	5.04	57	3.81	1.23
2300	Construction & Materials	43	2.78	67	2.58	0.20
2700	Industrial Goods & Services	173	11.02	259	13.19	-2.17
3300	Automobiles & Parts	44	6.65	58	3.46	3.19
3500	Food & Beverage	41	3.68	80	5.54	-1.86
3700	Personal & Household Goods	57	5.52	94	7.68	-2.16
4500	Health Care	48	7.11	104	12.81	-5.70
5300	Retail	47	3.48	97	3.99	-0.50
5500	Media	17	0.96	36	1.15	-0.19
5700	Travel & Leisure	45	1.63	75	2.08	-0.45
6500	Telecommunications	33	5.27	44	3.61	1.67
7500	Utilities	49	4.89	58	3.66	1.23
8300	Banks	86	13.35	105	8.75	4.59
8500	Insurance	59	7.11	62	4.89	2.22
8600	Real Estate	52	2.19	83	2.65	-0.46
8700	Financial Services	36	2.50	73	3.55	-1.05
9500	Technology	46	5.50	86	9.06	-3.56
Totals		1032	100.00	1559	100.00	

Country Breakdown

Country	FTSE RAFI Developed ex US 1000		FTSE Developed Ex US		Diff %
	No. of Cons	Wgt %	No. of Cons	Wgt %	
Australia	63	5.28	105	6.32	-1.05
Austria	7	0.28	8	0.15	0.13
Belgium	8	0.76	14	0.85	-0.09
Canada	94	7.55	55	7.79	-0.24
Denmark	13	1.10	20	2.02	-0.92
Finland	18	1.43	16	1.16	0.27
France	74	9.78	86	8.86	0.91
Germany	67	10.71	82	8.15	2.56
Hong Kong	35	2.00	92	3.22	-1.22
Ireland	4	0.11	5	0.23	-0.12
Israel	5	0.24	30	0.43	-0.18
Italy	31	3.47	40	2.07	1.40
Japan	268	19.98	506	22.05	-2.07
Netherlands	27	3.06	31	3.78	-0.73
New Zealand	2	0.05	12	0.32	-0.28
Norway	10	0.81	16	0.55	0.26
Poland	5	0.20	14	0.25	-0.04
Portugal	4	0.23	4	0.16	0.07
Singapore	16	0.74	38	1.01	-0.26
South Korea	59	4.99	133	4.48	0.51
Spain	23	3.10	26	2.06	1.04
Sweden	38	2.37	48	2.71	-0.35
Switzerland	40	6.36	48	8.73	-2.37
United Kingdom	121	15.42	130	12.65	2.77
Totals	1032	100.00	1559	100.00	

Top 10 Constituents - FTSE RAFI US 1000 (% Weight)

Constituent	ICB Sector	FTSE RAFI US 1000 (Wgt %)	FTSE USA All Cap (Wgt %)	Diff %
Apple Inc.	Technology Hardware & Equipment	3.77	5.48	-1.71
Microsoft Corp	Software & Computer Services	2.01	4.84	-2.83
Exxon Mobil Corporation	Oil & Gas Producers	1.87	0.56	1.31
AT&T	Fixed Line Telecommunications	1.80	0.66	1.14
Verizon Communications	Fixed Line Telecommunications	1.65	0.75	0.90
JPMorgan Chase & Co	Financial Services	1.48	0.92	0.56
Chevron	Oil & Gas Producers	1.33	0.49	0.84
Berkshire Hathaway B	Nonlife Insurance	1.29	0.83	0.46
Johnson & Johnson	Pharmaceuticals & Biotechnology	1.27	1.21	0.06
Walmart	General Retailers	1.19	0.57	0.62
Totals		17.66	16.31	

Top 10 Constituents - FTSE RAFI Developed ex US 1000 (% Weight)

Constituent	Country	ICB Sector	FTSE RAFI Developed ex US 1000 (Wgt %)	FTSE Developed Ex US (Wgt %)	Diff %
Samsung Electronics	South Korea	Technology Hardware & Equipment	1.66	1.42	0.24
Nestle	Switzerland	Food Producers	1.32	2.13	-0.81
Total SE	France	Oil & Gas Producers	1.17	0.55	0.63
BP	United Kingdom	Oil & Gas Producers	1.07	0.45	0.63
Royal Dutch Shell A	United Kingdom	Oil & Gas Producers	0.99	0.38	0.61
Daimler AG	Germany	Automobiles & Parts	0.97	0.22	0.75
Allianz SE	Germany	Nonlife Insurance	0.89	0.54	0.35
Roche Hldgs (GENUS)	Switzerland	Pharmaceuticals & Biotechnology	0.86	1.51	-0.65
Royal Dutch Shell B	United Kingdom	Oil & Gas Producers	0.85	0.33	0.52
Siemens AG	Germany	General Industrials	0.85	0.61	0.24
Totals			10.63	8.14	



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