

Capital Market Performance Report

As of March 24, 2023

3/24/2023

MATERIAL IS FOR INSTITUTIONAL/BROKER-DEALER USE ONLY.

Equity Dashboard

NOT FOR DISTRIBUTION OR USE WITH THE PUBLIC.

1 Week

	Value	Core	Growth
Large	1.00	1.33	1.64
Mid	0.75	0.79	0.85
Small	0.33	0.53	0.72

1 Month

	Value	Core	Growth
Large	-4.68	-0.45	3.87
Mid	-7.83	-6.06	-2.85
Small	-10.31	-8.07	-5.89

QTD

	Value	Core	Growth
Large	-2.96	3.66	10.73
Mid	-3.45	-0.76	4.24
Small	-4.16	-1.18	1.75

YTD

	Value	Core	Growth
Large	-2.96	3.66	10.73
Mid	-3.45	-0.76	4.24
Small	-4.16	-1.18	1.75

1 Yr.

	Value	Core	Growth
Large	-9.56	-11.43	-13.38
Mid	-13.13	-12.70	-12.45
Small	-16.09	-15.15	-14.55

3 Yr.

	Value	Core	Growth
Large	18.82	19.33	19.28
Mid	21.41	19.68	15.40
Small	21.90	17.99	13.51

5 Yr.

	Value	Core	Growth
Large	7.16	10.51	13.28
Mid	6.04	7.47	8.41
Small	4.18	4.18	3.58

7 Yr.

	Value	Core	Growth
Large	8.55	11.86	14.75
Mid	7.87	9.45	10.85
Small	7.72	8.45	8.69

10 Yr.

	Value	Core	Growth
Large	8.77	11.71	14.34
Mid	8.39	9.66	10.79
Small	6.89	7.68	8.12

15 Yr.

	Value	Core	Growth
Large	7.24	9.63	11.75
Mid	8.26	9.05	9.67
Small	6.84	7.69	8.25

S&P Sectors

	1W	1M	QTD	YTD	1 Yr.	3 Yr.	5 Yr.
S&P 500	1.41	0.19	3.86	3.86	-10.63	19.33	10.83
Tech	2.07	7.64	17.80	17.80	-7.51	24.26	19.17
Financials	0.58	-12.74	-9.00	-9.00	-18.83	18.34	5.17
Health Care	1.51	-0.59	-5.97	-5.97	-4.55	18.46	11.82
Consumer Disc.	0.44	-1.20	9.99	9.99	-23.41	13.28	7.74
Industrials	0.67	-2.99	-0.92	-0.92	-4.23	22.79	7.90
Energy	2.29	-7.07	-10.25	-10.25	5.91	48.16	8.40
Consumer stap.	1.58	0.73	-1.66	-1.66	0.61	16.17	10.80
Materials	2.16	-5.01	-0.69	-0.69	-10.96	23.86	8.83
Utilities	-1.16	-0.65	-6.14	-6.14	-5.58	13.23	9.53
Communication	3.40	9.53	18.76	18.76	-19.39	10.02	6.75
Reits	-1.15	-6.07	-3.04	-3.04	-20.76	12.38	7.03

	P/E (T)	P/E (F)	P/B	PEG	Div Yield
S&P 500	19.01	17.43	3.80	1.51	1.66
Tech	27.99	23.99	9.07	1.98	0.97
Financials	14.47	12.27	1.62	1.11	1.96
Health Care	18.90	16.84	4.52	1.85	1.71
Consumer Disc.	27.64	23.72	8.26	1.60	0.91
Industrials	19.59	17.87	4.99	1.78	1.71
Energy	6.85	9.32	2.11	0.62	3.87
Consumer stap.	21.58	19.76	6.20	2.73	2.57
Materials	13.20	16.10	2.71	2.23	2.14
Utilities	19.96	17.38	1.96	2.56	3.27
Communication	18.35	16.21	3.10	1.04	0.93
Reits	29.03	16.71	2.66	0.98	3.65

Forward P/E

	Value	Core	Growth
Large	13.72	17.46	23.45
Mid	13.20	15.51	22.16
Small	15.34	19.93	27.52

Style Box: Russell Indices

Sectors: S&P

International MSCI

Region/Country

International Developed

	1W	1M	QTD	YTD	1 Yr.	3 Yr.	5 Yr.
EAFE	1.61	-0.51	4.36	4.36	-3.60	14.83	3.41
Europe	2.17	-1.20	5.36	5.36	-1.22	16.30	4.14
Japan	0.89	2.65	4.47	4.47	-6.59	10.49	1.75
UK	1.83	-3.39	1.86	1.86	-4.19	16.55	2.40
Switzerland	1.47	-0.75	2.18	2.18	-8.95	11.61	8.01
France	2.41	-0.28	9.01	9.01	7.03	20.23	6.19
Germany	2.39	0.19	8.91	8.91	-0.35	13.06	0.30
Spain	2.28	-1.70	9.10	9.10	9.34	12.74	-0.58
Italy	3.06	-2.11	8.89	8.89	8.88	17.22	2.65

International Emerging

	1W	1M	QTD	YTD	1 Yr.	3 Yr.	5 Yr.
EM	2.24	0.28	2.01	2.01	-11.59	9.58	-0.92
China	2.93	0.88	2.33	2.33	-7.70	-1.89	-4.44
Korea	1.49	0.78	7.48	7.48	-14.57	13.16	-1.17
Taiwan	3.73	3.95	15.80	15.80	-12.20	23.64	12.20
Brazil	-2.37	-7.69	-9.18	-9.18	-21.75	12.71	-4.51
India	-0.71	-2.17	-8.45	-8.45	-11.81	25.84	6.00
Saudi	5.85	3.45	-1.37	-1.37	-19.73	21.67	8.40
Mexico	4.47	-0.18	15.52	15.52	6.59	31.23	5.36
Indo	4.50	1.81	4.67	4.67	-1.14	28.45	2.14

3/24/2023

MATERIAL IS FOR INSTITUTIONAL/BROKER-DEALER USE ONLY.

Fixed Income Dashboard

NOT FOR DISTRIBUTION OR USE WITH THE PUBLIC.

1 Week

	Ltd	Int	Long
High	0.14	0.43	0.06
Med	0.28	0.53	1.02
Low	0.08	0.33	-0.09

1 Month

	Ltd	Int	Long
High	1.23	3.20	5.90
Med	2.11	2.95	3.97
Low	-0.15	-0.20	-0.16

QTD

	Ltd	Int	Long
High	1.50	2.83	6.65
Med	2.02	2.97	4.93
Low	2.07	1.84	1.51

YTD

	Ltd	Int	Long
High	1.50	2.83	6.65
Med	2.02	2.97	4.93
Low	2.07	1.84	1.51

1 Yr.

	Ltd	Int	Long
High	1.22	-1.14	-14.62
Med	0.42	-2.24	-9.72
Low	1.53	-4.51	-10.63

3 Yr.

	Ltd	Int	Long
High	0.14	-1.90	-11.04
Med	-0.54	-1.38	2.29
Low	8.60	8.01	10.60

5 Yr.

	Ltd	Int	Long
High	1.33	1.22	0.09
Med	1.20	1.17	1.87
Low	3.51	2.70	4.65

7 Yr.

	Ltd	Int	Long
High	1.14	0.80	-0.27
Med	0.94	1.00	3.40
Low	5.02	4.80	7.68

10 Yr.

	Ltd	Int	Long
High	0.88	0.97	1.53
Med	0.88	1.29	3.36
Low	4.23	3.85	7.27

Bond Sectors

	1W	1M	QTD	YTD	1 Yr.	3 Yr.	5 Yr.
Aggregate	0.52	3.27	3.44	3.44	-4.09	-2.06	1.10
Treasury	0.36	3.75	3.57	3.57	-3.90	-3.85	0.95
TIPS	1.26	3.17	3.10	3.10	-7.21	1.50	3.02
Municipal	0.41	1.99	2.52	2.52	-0.37	2.38	2.04
Corporate	1.00	3.23	3.79	3.79	-4.67	1.55	1.98
MBS	0.49	3.10	3.43	3.43	-3.96	-3.02	0.46
Bank Loans	0.06	-1.57	1.44	1.44	1.65	10.78	3.10
Preferreds	-0.01	-2.94	6.15	6.15	-5.91	3.68	0.88
High Yield	0.33	-0.20	1.84	1.84	-4.51	8.01	2.70

Global Bonds

	1W	1M	QTD	YTD	1 Yr.	3 Yr.	5 Yr.
Global Agg	0.75	3.78	3.39	3.39	-7.25	-2.55	-1.28
Multiverse	0.75	3.60	3.31	3.31	-7.14	-2.16	-1.19
EMD USD	0.72	0.49	1.41	1.41	-6.34	1.50	-0.52
EM Local	1.77	2.35	3.76	3.76	-0.01	-1.14	-4.42
Global Agg ex US	0.24	2.34	3.28	3.28	-2.81	-1.34	1.11

Currency

	1W	1M	QTD	YTD	1 Yr.	3 Yr.	5 Yr.
Per USD							
EUR	1.10	2.10	0.84	0.84	-2.23	-0.11	-2.73
JPY	1.07	4.40	1.00	1.00	-6.56	-5.15	-4.30
CHF	1.18	2.39	0.79	0.79	1.42	2.25	0.62
AUD	-0.58	-1.15	-2.02	-2.02	-11.46	3.88	-2.96
CAD	-0.05	-0.84	-1.53	-1.53	-8.91	1.71	-1.33
GBP	0.72	2.41	1.65	1.65	-7.26	1.25	-2.88
EM FX	1.51	1.78	2.72	2.72	1.29	2.45	-1.59

Treasury Yield Curve

	Current	1W	QTD	1-Jan	T-1 yr.	T-3 yr.	T-5 yr.
2 Yr	3.77	3.82	4.42	4.42	2.13	0.38	2.25
10 Yr	3.38	3.39	3.88	3.88	2.34	0.82	2.83
30 Yr	3.65	3.59	3.97	3.97	2.51	1.38	3.07
2-10 spread	-0.39	-0.43	-0.54	-0.54	0.21	0.45	0.57
10-30 Spread	0.27	0.20	0.09	0.09	0.17	0.56	0.24

Commodities

	1W	1M	QTD	YTD	1 Yr.	3 Yr.	5 Yr.
BBG Com. Index	0.51	-2.03	-7.67	-7.67	-17.75	18.62	4.85
Oil	5.03	-8.18	-12.72	-12.72	-38.74	49.28	1.23
Gold	0.67	9.57	8.85	8.85	0.67	4.74	6.84

Tech		Health Care					Consumer Discretionary					Communications					Financials												
Bull & Bear Case																													
Bull: Strong balance sheets, dividends/buybacks catalysts, positive secular growth trends.					Bull: Mix of defensive growth (pharma) and aggressive growth (biotech), secular demographic tailwinds					Bull: Improving ROE, consumer spending benefiting from fiscal support.					Bull: Attractive PEG ratio, concentrated in former Tech that has favorable secular dynamics.					Bull: Beneficiaries of financial asset rebound and attractively valued.									
Bear: Potential for higher regulatory costs, earnings growth decelerating					Bear: Potential for regulation headwinds, trailing multiples getting rich					Bear: Economy in a recession, fiscal support waning.					Bear: Old telecom is embedded, other former CD names have lofty valuations.					Bear: Short rates low, recessionary environment is a headwind.									
W	1 Wk.	QTD	YTD	1 Yr.	W	1 Wk.	QTD	YTD	1 Yr.	W	1 Wk.	QTD	YTD	1 Yr.	W	1 Wk.	QTD	YTD	1 Yr.	W	1 Wk.	QTD	YTD	1 Yr.					
Tech	26%	2	18	18	-8	Health	14%	2	-6	-6	-5	Con. Dis.	10%	0	10	10	-23	Comm	8%	3	19	19	-19	Fins	13%	1	-9	-9	-19
Top 5					Top 5					Top 5					Top 5					Top 5									
Apple	28%	3	24	24	-7	UnitedHealth Grou	9%	1	-10	-10	-6	Amazon.com	27%	-1	17	17	-40	Alphabet C	37%	4	20	20	-25	Berkshire Hathawa	13%	2	-3	-3	-15
Microsoft	24%	0	17	17	-7	Johnson & Johnson	8%	0	-13	-13	-11	Tesla	16%	6	55	55	-44	Meta Platforms	23%	5	71	71	-6	JPMorgan Chase	9%	-1	-6	-6	-8
NVIDIA	8%	4	83	83	-5	AbbVie	6%	2	-1	-1	2	Home Depot	9%	-2	-10	-10	-8	Walt Disney	6%	1	8	8	-32	Visa A	8%	2	7	7	3
Broadcom	3%	2	15	15	5	Merck & Co	6%	1	-5	-5	34	McDonald's	6%	2	4	4	15	Verizon Communic	6%	2	-3	-3	-22	Mastercard A	7%	1	1	1	1
Cisco Systems	2%	1	7	7	-4	Eli Lilly	6%	2	-8	-8	18	NIKE B	5%	0	3	3	-8	Comcast A	6%	0	3	3	-21	Bank of America	4%	-2	-18	-18	-35
Industries					Industries					Industries					Industries					Industries									
Software	36%	1	17	17	-7	Pharma	29%	1	-10	-10	-2	Sp Retail	21%	-1	-7	-7	-3	Inter. Media	60%	4	30	30	-20	Banks	24%	-1	-16	-16	-30
Hardware	28%	3	23	23	-8	Services	22%	1	-11	-11	-7	Hotel	21%	1	7	7	2	Entertain	17%	4	10	10	-23	Cap. Mark	22%	0	-6	-6	-15
Semis	25%	2	32	32	-9	Equip	20%	2	1	1	-11	Autos	18%	5	43	43	-41	Telecom	14%	2	-2	-2		Insurance	17%	2	-9	-9	-7
IT Services	5%	5	2	2	-6	Biotech	16%	4	-2	-2	10	Textiles	5%	0	2	2	-13	Media	9%	0	3	3	-26	Cons. Fin.	4%	1	2	2	-19
Comm.	4%	1	10	10	0	Life Sci	13%	1	-2	-2	-12	Household	4%	0	9	9	5							Div. Fin.	0%	1	-4	-4	-15
Elect. Eq.	2%	2	4	4	-7							Distributors	1%	-3	-2	-2	5												
Fundamentals																													
Avg.	C	1 Yr.	5 Yr.	10 Yr.	20 Yr.	Avg.	C	1 Yr.	5 Yr.	10 Yr.	20 Yr.	Avg.	C	1 Yr.	5 Yr.	10 Yr.	20 Yr.	Avg.	C	1 Yr.	5 Yr.	10 Yr.	20 Yr.	Avg.	C	1 Yr.	5 Yr.	10 Yr.	20 Yr.
PE (f)	24	21	22	19	18	PE (f)	17	16	16	16	15	PE (f)	24	24	27	22	19	PE (f)	16	15	18	16	15	PE (f)	12	12	13	13	12
PEf/mkt	1.4	1.2	1.2	1.1	1.2	PEf/mkt	1.0	1.0	0.9	0.9	1.0	PEf/mkt	1.4	1.4	1.4	1.3	1.2	PEf/mkt	0.9	0.9	1.0	0.9	1.0	PEf/mkt	0.7	0.7	0.7	0.8	0.8
PE (t)	28	25	27	23	21	PE (t)	19	20	22	21	19	PE (t)	28	25	28	24	20	PE (t)	18	15	19	19	18	PE (t)	15	12	13	14	14
EPS G (t)	4	8	10	10	13	EPS G (t)	-5	0	7	8	8	EPS G (t)	23	22	23	18	17	EPS G (t)	15	7	10	8	7	EPS G (t)	12	6	9	11	36
ROE	32	34	31	26	22	ROE	23	24	20	20	20	ROE	25	32	29	26	19	ROE	16	19	18	18	15	ROE	11	12	10	9	9
PB	9.1	8.5	8.5	6.3	5.0	PB	4.5	4.8	4.6	4.2	3.8	PB	8.3	8.8	9.0	6.9	4.7	PB	3.1	3.0	3.4	3.2	2.6	PB	1.6	1.5	1.4	1.3	1.4
Div Yield	1.0	1.0	1.1	1.3	1.0	Div Yield	1.7	1.6	1.6	1.6	1.7	Div Yield	0.9	0.8	1.0	1.2	1.2	Div Yield	0.9	1.1	1.6	3.2	3.7	Div Yield	2.0	2.0	2.0	1.9	2.2
Style Weights																													
Avg.	C	1 Yr.	3 Yr.	5 Yr.	Avg.	C	1 Yr.	3 Yr.	5 Yr.	Avg.	C	1 Yr.	3 Yr.	5 Yr.	Avg.	C	1 Yr.	3 Yr.	5 Yr.	Avg.	C	1 Yr.	3 Yr.	5 Yr.					
R.1000V	7	7	8	7	R.1000V	16	16	15	14	R.1000V	5	5	5	5	R.1000V	8	7	8	7	R.1000V	18	18	18	19					
R.1000G	39	41	40	37	R.1000G	11	10	10	11	R.1000G	13	15	15	15	R.1000G	7	8	10	9	R.1000G	6	2	2	2					
R.1000	23	24	24	23	R.1000	13	13	13	13	R.1000	9	10	10	10	R.1000	8	7	9	8	R.1000	12	10	10	11					
SP50	26	27	27	25	SP500	14	15	14	14	SP500	10	11	12	11	SP500	8	8	10	9	SP500	13	11	11	12					
Risk																													
Beta vs. S&P		1.25	1.14	1.14	Beta vs. S&P		0.54	0.65	0.69	Beta vs. S&P		1.26	1.22	1.18	Beta vs. S&P		1.05	1.08	1.01	Beta vs. S&P		0.54	0.65	0.69					

Industrials						Consumer Staples					Utilities					Materials					Energy					REITS									
											Bull & Bear Case																								
Bull: Beneficiaries of higher global defense spending, valuations incrementally better than market. Bear: Highly cyclical, business capex spending may be decelerating						Bull: High ROE and offers a dividend yield premium to market. Bear: Interest rate sensitive and relatively expensive.					Bull: Dividend yield attractive vs. market, lower Beta and more defensive. Bear: Valuations are rich, and highly sensitive to rising rates.					Bull: Benefits if commodities rebound, chemicals better margins on lower energy costs. Bear: Overly exposed to China growth					Bull: Best way to play the commodity rebound/inflationary pressures, valuations attractive. Bear: U.S. oil supplies increasing, demand decreasing					Bull: Attractive yield play, domestically oriented. Bear: Interest rate sensitive and valuations are unattractive									
W	1 Wk.	QTD	YTD	1 Yr.		W	1 Wk.	QTD	YTD	1 Yr.		W	1 Wk.	QTD	YTD	1 Yr.		W	1 Wk.	QTD	YTD	1 Yr.		W	1 Wk.	QTD	YTD	1 Yr.		W	1 Wk.	QTD	YTD	1 Yr.	
S&P Ind.	9%	1	-1	-1	-4	Con. Stap	7%	2	-2	-2	1	Utes	3%	-1	-6	-6	-6	Materials	3%	2	-1	-1	-11	Energy	4%	2	-10	-10	6	REITS	3%	-1	-3	-3	-21
Top 5						Top 5					Top 5					Top 5					Top 5														
Raytheon Te	5%	1	-4	-4	-3	Procter & G	14%	3	-3	-3	0	NextEra En	16%	0	-9	-9	-8	Linde	20%	4	6	6	10	Exxon Mo	29%	4	-5	-5	29	Prologis	13%	1	5	5	-23
United Parc	5%	0	8	8	-10	PepsiCo	10%	2	0	0	12	Southern	8%	-2	-7	-7	-9	Air Product	7%	5	0	0	-25	Chevron	19%	1	-19	-19	-4	America	11%	-1	5	5	-2
Honeywell I	4%	2	-12	-12	-1	Coca-Cola	10%	1	-4	-4	3	Duke Ener	8%	1	-3	-3	3	Freeport-I	6%	-3	-13	-13	13	ConocoPh	8%	2	-12	-12	-3	Equinix	8%	-1	-6	-6	-13
Union Pacifi	4%	-1	-8	-8	-29	Costco Who	9%	2	9	9	-11	American E	5%	-2	-5	-5	-4	Sherwin-W	6%	-3	-11	-11	-15	Schlumbe	4%	0	-16	-16	6	Crown C	7%	-1	-3	-3	-23
Caterpillar	4%	1	-9	-9	0	Walmart	8%	2	0	0	1	Sempra En	5%	-1	-7	-7	-7	Corteva	5%	0	-3	-3	-2	EOG Reso	4%	3	-17	-17	-6	Public St	6%	-3	3	3	-18
Industries						Industries					Industries					Industries					Industries														
Aero/Def	21%	1	-4	-4	0	Beverage	25%	2	-2	-2	7	Electr	66%	-1	-6	-6	-3	SP Chem	68%	1	-3	-3	-13	Oil & Gas	92%	3	-10	-10	7						
Machine	21%	1	-3	-3	2	Hous Prd.	20%	3	-2	-2	1	Multi	28%	-1	-5	-5	-11	Metals	17%	3	5	5	-23	Equip	8%	0	-17	-17	-10						
Conglo	10%	1	1	1	0	Food Prd.	16%	3	-3	-3	7							Contain	10%	2	-4	-4	-22												
Pro. Svcs	9%	1	-4	-4	-14	Tobac	9%	3	-2	-2	-12							Construct	5%	4	-3	-3	-9												
Shipping	8%	-1	11	11	-7																														

Fundamentals

Avg.	C	1 Yr.	5 Yr.	10 Yr.	20 Yr.	Avg.	C	1 Yr.	5 Yr.	10 Yr.	20 Yr.	Avg.	C	1 Yr.	5 Yr.	10 Yr.	20 Yr.	Avg.	C	1 Yr.	5 Yr.	10 Yr.	20 Yr.	Avg.	C	1 Yr.	5 Yr.	10 Yr.	20 Yr.						
PE (f)	18	18	19	18	16	PE (f)	20	21	20	19	17	PE (f)	17	19	19	17	15	PE (f)	16	15	17	16	15	PE (f)	9	10	4	16	14	PE (f)	17	19	20	19	17
PEf/mkt	1.0	1.0	1.0	1.0	1.0	PEf/mkt	1.1	1.2	1.1	1.1	1.1	PEf/mkt	1.0	1.1	1.0	1.0	1.0	PEf/mkt	0.9	0.9	0.9	1.0	1.0	PEf/mkt	0.5	0.6	0.2	0.9	0.9	PEf/mkt	1.0	1.1	1.1	1.1	1.1
PE (t)	20	20	20	19	18	PE (t)	22	23	21	20	18	PE (t)	20	20	20	19	17	PE (t)	13	15	19	18	18	PE (t)	7	11	16	19	15	PE (t)	29	31	38	39	38
EPS G (t)	12	21	29	18	15	EPS G (t)	5	5	6	6	8	EPS G (t)	7	6	5	4	4	EPS G (t)	-11	-2	10	11	20	EPS G (t)	-15	25	186	121	65	EPS G (t)	1	6	6	7	7
ROE	24	22	21	21	19	ROE	29	28	28	27	26	ROE	10	11	11	10	10	ROE	20	20	14	16	15	ROE	31	24	9	9	14	ROE	9	11	9	8	7
PB	5.0	5.0	5.0	4.4	3.6	PB	6.2	6.5	6.1	5.5	4.8	PB	2.0	2.2	2.1	1.9	1.8	PB	2.7	2.9	2.7	3.0	2.8	PB	2.1	2.4	1.8	1.8	2.1	PB	2.7	3.2	3.5	3.3	2.8
Div Yield	1.7	1.6	1.7	1.9	2.0	Div Yield	2.6	2.5	2.7	2.7	2.6	Div Yield	3.3	3.0	3.2	3.4	3.6	Div Yield	2.1	2.0	2.0	2.1	2.2	Div Yield	3.9	3.3	4.1	3.4	2.6	Div Yield	3.6	2.9	2.9	2.9	3.6

Style Weights

Avg.	C	1 Yr.	3 Yr.	5 Yr.	Avg.	C	1 Yr.	3 Yr.	5 Yr.	Avg.	C	1 Yr.	3 Yr.	5 Yr.	Avg.	C	1 Yr.	3 Yr.	5 Yr.	Avg.	C	1 Yr.	3 Yr.	5 Yr.					
R.1000V	9	9	10	9	R.1000V	7	7	7	7	R.1000V	5	5	5	5	R.1000V	4	3	4	3	R.1000V	4	3	4	3	R.1000V	3	3	3	3
R.1000G	7	6	5	7	R.1000G	6	5	5	5	R.1000G	0	0	0	0	R.1000G	1	1	1	1	R.1000G	1	1	1	1	R.1000G	1	2	2	2
R.1000	8	7	7	8	R.1000	7	6	6	6	R.1000	3	3	3	3	R.1000	2	2	2	2	R.1000	2	2	2	2	R.1000	2	3	2	3
SP500	9	8	8	9	SP500	7	7	7	7	SP500	3	3	3	3	SP500	3	3	3	3	SP500	3	3	3	3	SP500	2	3	3	3

Risk

Beta vs. S&P	1.04	1.07	1.11	Beta vs. S&P	0.46	0.56	0.58	Beta vs. S&P	0.64	0.56	0.51	Beta vs. S&P	0.95	0.96	0.84	Beta vs. S&P	1.08	1.07	1.07	Beta vs. S&P	1.21	1.31	1.33
--------------	------	------	------	--------------	------	------	------	--------------	------	------	------	--------------	------	------	------	--------------	------	------	------	--------------	------	------	------

Value	Size	Quality	Momentum	Dividend	Low Volatility
-------	------	---------	----------	----------	----------------

Weighting of each securities determined using: price-to-book value, price-to-forward earnings and enterprise value-to-cash flow. There are 150 issuers and is sector neutral. ETF = VLUE.	The index places greater weight to stocks with smaller market cap & lower volatility. There are 622 stocks in the index and not sector neutral. Largest sectors: Financials, Industrials, and CD. ETF = SIZE	Securities in the index are based on three variables: high return on equity, low earnings variability and low debt-to-equity. Typically 125 securities in index, sector neutral. ETF = Qual	The securities are chosen based on 6- and 12-month risk-adjusted price momentum. Approximately 100-350 securities in index. ETF = MTUM	The constituents of the index are weighted by using 12 month forward dividend per share forecast using I/B/E/S forecast DPS values, divided by the underlying stock price. ETF = VYM.	The index is created by weighting securities by lower Beta, volatility, cap bias, and low idiosyncratic risk. Not sector neutral. ETF = USMV
---	--	---	--	---	--

Performance Trends

Value					Size					Quality					Momentum					Dividend					Low Vol										
W	1 Wk.	QTD	YTD	1 Yr.	W	1 Wk.	QTD	YTD	1 Yr.	W	1 Wk.	QTD	YTD	1 Yr.	W	1 Wk.	QTD	YTD	1 Yr.	W	1 Wk.	QTD	YTD	1 Yr.	W	1 Wk.	QTD	YTD	1 Yr.						
Value	0.7	-2	-2	-13	Size	0.8	-1	-1	-12	Quality	1.4	6	6	-9	Momentum	1.8	-7	-7	-18	Dividend	0.9	-5	-5	-7	Low Vol	1.5	-2	-2	-6						
Top 10 Holdings					Top 10 Holdings					Top 10 Holdings					Top 10 Holdings					Top 10 Holdings															
AT&T	5%	3	3	3	12	Okta A	0.3%	-2	20	20	-43	Home Dep	5%	-2	-10	-10	-8	Eli Lilly	5%	2	-8	-8	18	Exxon Mc	3%	4	-5	-5	29	Cisco Syst	2%	1	7	7	-4
Intel	5%	-2	12	12	-41	Meta Plat	0.3%	5	71	71	-6	Microsoft	4%	0	17	17	-7	Exxon Mo	5%	4	-5	-5	29	Johnson &	3%	0	-13	-13	-11	Texas Ins	2%	2	9	9	0
Cisco Sys	4%	1	7	7	-4	EXACT Sci	0.3%	4	34	34	-1	Meta Plat	4%	5	71	71	-6	UnitedHe	5%	1	-10	-10	-6	JPMorgar	3%	-1	-6	-6	-8	Merck &	2%	1	-5	-5	34
Micron T	3%	8	22	22	-21	Align Tech	0.3%	-4	45	45	-30	NVIDIA	4%	4	83	83	-5	Chevron	5%	2	-12	-12	-3	Procter &	3%	3	-3	-3	0	PepsiCo	2%	2	0	0	12
Pfizer	3%	1	-20	-20	-21	Catalent	0.3%	-4	43	43	-40	Apple	4%	3	24	24	-7	Merck & C	4%	1	-5	-5	34	Chevron	2%	2	-12	-12	-3	Republic	2%	0	1	1	2
General I	3%	1	0	0	-23	NVIDIA	0.3%	4	83	83	-5	Visa A	3%	2	7	7	3	AbbVie	4%	2	-1	-1	2	Home De	2%	-2	-10	-10	-8	Verizon C	2%	2	-3	-3	-22
IBM	3%	1	-10	-10	2	Coinbase	0.3%	-10	92	92	-64	Mastercar	3%	1	1	1	1	PepsiCo	3%	2	0	0	12	Eli Lilly	2%	2	-8	-8	18	Duke Ene	2%	-2	-7	-7	-9
AbbVie	2%	2	-1	-1	2	MarketAx	0.3%	-1	39	39	10	Costco WI	2%	2	9	9	-11	McDonalc	3%	2	4	4	15	AbbVie	2%	2	-1	-1	2	Waste M	1%	1	-1	-1	1
Ford Mot	2%	2	5	5	-25	West Phar	0.3%	1	42	42	-18	Johnson &	2%	0	-13	-13	-11	ConocoPh	2%	1	-19	-19	-4	Merck &	2%	1	-5	-5	34	T-Mobile	1%	0	2	2	13
Raytheor	2%	1	-4	-4	-3	Seagen	0.3%	-1	54	54	40	Eli Lilly	2%	2	-8	-8	18	Amgen	2%	4	-9	-9	4	Broadcon	2%	2	15	15	5	Gilead Sc	1%	3	-6	-6	41

Fundamentals

Inception 4/16/2013						Inception 4/16/2013						Inception 7/16/2013						Inception 4/16/2013						Inception 11/10/2006						Inception 10/18/2011					
Avg.	C	6M	YTD	1 Yr.	3 Yr.	Avg.	C	6M	YTD	1 Yr.	3 Yr.	Avg.	C	6M	YTD	1 Yr.	3 Yr.	Avg.	C	6M	YTD	1 Yr.	3 Yr.	Avg.	C	6M	YTD	1 Yr.	3 Yr.	Avg.	C	6M	YTD	1 Yr.	3 Yr.
PE (f)	11	10	11	11	11	PE (f)	16	16	17	16	19	PE (f)	18	17	18	18	20	PE (f)	14	14	14	16	22	PE (f)	13	13	13	13	14	PE (f)	18	18	18	19	20
PEf/mkt	0.6	0.6	0.6	0.6	1	PEf/mkt	0.9	1.0	1.0	1.0	0.9	PEf/mkt	1.0	1.0	1.0	1.0	1.0	PEf/mkt	0.8	0.8	0.8	0.9	1.1	PEf/mkt	0.8	0.8	0.8	0.8	0.7	PEf/mkt	1.0	1.1	1.0	1.1	1.0
PE (t)	11	10	10	9	13	PE (t)	20	19	20	19	25	PE (t)	17	16	16	17	22	PE (t)	13	15	14	18	29	PE (t)	14	13	14	14	17	PE (t)	20	20	21	21	24
EPS G (t)	-8	-7	-10	-4	4	EPS G (t)	5	8	4	10	15	EPS G (t)	-3	-3	-4	0	7	EPS G (t)	-2	2	-1	7	16	EPS G (t)	-2	1	-1	3	7	EPS G (t)	3	5	4	6	8
ROE	14	17	16	17	14	ROE	14	15	15	15	13	ROE	35	33	36	31	27	ROE	28	26	28	25	20	ROE	19	20	19	19	15	ROE	21	22	21	22	19
PB	1.5	1.6	1.6	1.6	2	PB	2.8	2.9	2.9	3.0	3.0	PB	5.8	5.4	5.8	5.5	5.7	PB	3.7	3.9	4.0	4.0	5.6	PB	2.6	2.6	2.7	2.6	2.5	PB	4.2	4.4	4.4	4.6	4.5
Div Yield	3.1	3.0	2.9	2.9	3	Div Yield	1.7	1.7	1.7	1.6	1.6	Div Yield	1.7	1.6	1.6	1.5	1.5	Div Yield	2.1	2.0	1.9	1.8	1.1	Div Yield	3.1	3.1	3.0	3.0	3.1	Div Yield	2.0	1.9	1.9	1.8	1.7

Risk

1 Yr.			2 Yr.			3 Yr.			1 Yr.			2 Yr.			3 Yr.			1 Yr.			2 Yr.			3 Yr.		
Beta vs. S&P	1.03	0.93	1.00	Beta vs. S&P	1.01	1.07	1.07	Beta vs. S&P	1.06	1.08	1.03	Beta vs. S&P	0.84	0.88	0.94	Beta vs. S&P	0.80	0.77	0.82	Beta vs. S&P	0.70	0.78	0.77			
Standard Dev	26.4	20.3	23.4	Standard Dev	24.3	19.2	22.9	Standard Dev	25.4	21.0	21.7	Standard Dev	23.0	19.8	21.6	Standard Dev	21.1	16.9	18.8	Standard Dev	17.6	16.1	17.0			

MATERIAL IS FOR INSTITUTIONAL/BROKER-DEALER USE ONLY. NOT FOR USE WITH THE PUBLIC

Global Equity Indices

Russell 1000 - Total Return
Russell 1000 Growth - Total Return
Russell 1000 Value - Total Return
Russell Midcap - Total Return
Russell Midcap Growth - Total Return
Russell Midcap Value - Total Return
Russell 2000 - Total Return
Russell 2000 Value - Total Return
Russell 2000 Growth - Total Return
MSCI EAFE - Gross Return
MSCI Europe - Gross Return
MSCI Japan - Gross Return
MSCI United Kingdom - Gross Return
MSCI Switzerland - Gross Return
MSCI France - Gross Return
MSCI Germany - Gross Return
MSCI Spain - Gross Return
MSCI Italy - Gross Return
MSCI EMF (Emerging Markets) - Gross Return
MSCI China - Gross Return
MSCI Korea - Gross Return
MSCI Taiwan - Gross Return
MSCI Brazil - Gross Return
MSCI India - Gross Return
MSCI Russia - Gross Return
MSCI Mexico - Gross Return
MSCI Indonesia - Gross Return
S&P 500 - Total Return
S&P 500 / Information Technology -SEC - Gross Return
S&P 500 / Financials -SEC - Gross Return
S&P 500 / Health Care -SEC - Gross Return
S&P 500 / Consumer Discretionary -SEC - Gross Return
S&P 500 / Industrials -SEC - Gross Return
S&P 500 / Energy -SEC - Gross Return
S&P 500 / Consumer Staples -SEC - Gross Return
S&P 500 / Materials -SEC - Gross Return
S&P 500 / Utilities -SEC - Gross Return
S&P 500 / Telecommunications Services -SEC - Gross Return

Global Fixed Income Indices

Bloomberg Barclays U.S. Government: Long
Bloomberg Barclays U.S. Government: Intermediate
Bloomberg Barclays US Aggregate Government (Short Duration)
Bloomberg Barclays US Aggregate Corporate - Long (BAA)
Bloomberg Barclays US Intermediate Aggregate
Bloomberg Barclays US Aggregate (1-3 Y) (AA2+)
Bloomberg Barclays US Aggregate Credit - Corporate - High Yield - Long
ICE BofAML US High Yield (USD Unhedged)
ICE BofAML US High Yield (0-3 Y) (USD Unhedged)
Bloomberg Barclays US Aggregate
Bloomberg Barclays US Aggregate Government - Treasury
Bloomberg Barclays Municipal Bond
Bloomberg Barclays US Corporate (7-10Y)
Bloomberg Barclays US Aggregate Securitized - MBS
JP Morgan EMBI Global Diversified (Local)
JP Morgan GBI-EM Diversified Composite
Invesco Senior Loan
ICE BofAML Hybrid Preferred Securities (USD Unhedged)
ICE BofAML US High Yield (USD Unhedged)
Bloomberg Barclays US Convertibles Composite
Bloomberg Barclays US Aggregate Government (Short Duration)
Bloomberg Barclays US Aggregate (1-3 Y) (AA2+)
ICE BofAML US High Yield (0-3 Y)
Bloomberg Barclays U.S. Government: Intermediate
Bloomberg Barclays US Intermediate Aggregate
ICE BofAML US High Yield
Bloomberg Barclays U.S. Government: Long
Bloomberg Barclays US Aggregate Corporate - Long (BAA)
Bloomberg Barclays US Aggregate Credit - Corporate - High Yield - Long
Bloomberg Barclays US Aggregate Government - Treasury
Bloomberg Barclays Municipal Bond
Bloomberg Barclays US Corporate (7-10Y)
Bloomberg Barclays US Aggregate Securitized - MBS
JP Morgan EMBI Global Diversified
JP Morgan GBI-EM Diversified Composite
Bloomberg Barclays US High Yield Loans
ICE BofAML Hybrid Preferred Securities
BofA Merrill Lynch US High Yield
Bloomberg Barclays US Convertibles Composite
US Benchmark Bond - 2 Year
US Benchmark Bond - 10 Year
US Benchmark Bond - 30 Year

The views expressed are as of the date noted and are subject to change. This information is provided for informational purposes only and is not an endorsement of any security, mutual fund, sector, or index. No forecasts are guaranteed. Past performance does not guarantee future results. This is not an offer to sell or a recommendation to buy any individual security mentioned. Numbers in the Sector Dashboard tables are rounded to the nearest whole number. It is not possible to invest directly in an index.

Request a prospectus or summary prospectus from your financial advisor, by visiting jhinvestments.com, or by calling us at 800-225-5291. The prospectus includes investment objectives, risks, fees, expenses, and other information that you should consider carefully before investing.

John Hancock Investment Management Distributors LLC
| Member FINRA, SIPC
200 Berkeley Street | Boston, MA 02216 | 800-225-5291 | jhinvestments.com

THIS MATERIAL IS FOR INSTITUTIONAL/BROKER-DEALER USE ONLY. NOT FOR DISTRIBUTION OR USE WITH THE PUBLIC.

952602 9/19