

*Union Bank & Trust:
CollegeCounts Alabama's 529 Fund*

June 2018

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I. Quarterly Market Commentary

Economic Highlights

GDP: Real GDP growth slowed during the first quarter of 2018, at 2.0% annualized. Most of the major components of economic growth contributed with only an increase in the trade deficit detracting from gains. Growth in consumer spending was weaker than in the previous five years while business spending was up for the fourth straight quarter, contributing 1.3% to real GDP growth. Government spending was up, as well, contributing 0.2% to economic growth.

-Source: Dept. of Commerce (BEA)

Interest Rates: The Treasury curve rose across all maturities during the quarter with the biggest increases coming in the 1-3 year range. The spread between the short and long ends of the curve have been shrinking for years and the curve is now flatter than it has been since 2007. The 10 year Treasury was up 11 basis points during the quarter, finishing at 2.85%. The Federal Reserve raised its benchmark rate by 0.25% during their June meeting, the second increase this year and seventh since moving away from zero in 2015.

-Source: US Treasury

Inflation: Consumer price increases have moderated somewhat during 2018. The Consumer Price Index was up 0.4% for the three months ending May and 2.7% for the one year period. The 10 year breakeven inflation rate closed the second quarter at 2.11%, up from 2.05% at the end of March.

-Source: Dept. of Labor (BLS), US Treasury

Employment: Jobs growth has been solid during 2018 with total nonfarm employment increasing an average of 179,000 jobs per month during the three months ending May 2018. The unemployment rate fell below 4% for the first time since the year 2000, equaling 3.8% in May. -Source: Dept. of Labor (BLS)

Housing: Home prices continue to move higher during 2018 with the S&P Case-Shiller 20-city Home Price Index up 1.5% for the three months ending April 2018. During the past 12 months, the index is up 6.5%.

-Source: S&P

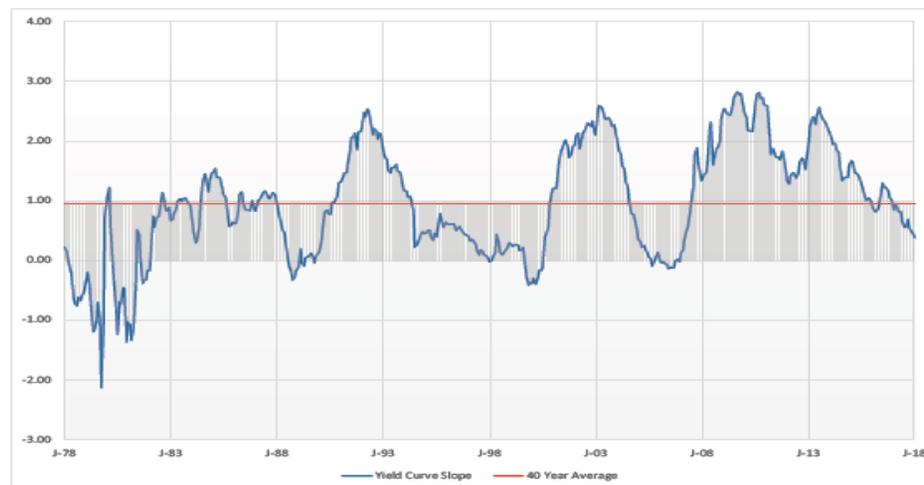
The U.S. Equity Market

The U.S. stock market, represented by the Wilshire 5000 Total Market IndexSM, was up 3.83% for the second quarter of 2018, rebounding from only the second negative quarter in nearly six years. Volatility has returned this year but is in line with long-term historical figures. Although there have been more up days than down during 2018, the daily losses have been more substantial. The average daily loss has been approximately 34% greater than the average daily gain, a spread not seen in more than a decade. Trade and tariffs continued to help drive markets this spring, as did increased anti-euro sentiment in Italy. Strong gains in personal income and consumer spending during the second quarter have left room for optimism.

U.S. Equity	MTD (%)	QTD (%)	YTD (%)	1 Year (%)
Wilshire 5000 Total Market Index SM	0.65	3.83	3.04	14.66
Standard & Poor's 500	0.62	3.43	2.65	14.37
Wilshire 4500 Completion Index SM	0.84	6.02	5.88	16.45
U.S. Equity by Size/Style	MTD (%)	QTD (%)	YTD (%)	1 Year (%)
Wilshire US Large-Cap Index SM	0.62	3.41	2.62	14.42
Wilshire US Large-Cap Growth Index SM	0.80	4.82	6.18	19.67
Wilshire US Large-Cap Value Index SM	0.46	2.14	-0.87	9.37
Wilshire US Small-Cap Index SM	0.88	7.87	7.08	16.87
Wilshire US Small-Cap Growth Index SM	0.70	6.43	7.93	19.92
Wilshire US Small-Cap Value Index SM	1.06	8.30	6.11	13.69
Wilshire US Micro-Cap Index SM	1.47	9.21	8.89	19.37

Large capitalization stocks significantly underperformed small caps as the Wilshire US Large Cap IndexSM was up +3.41% versus a gain of +7.87% for the Wilshire US Small Cap IndexSM. The large cap segment of the market trailed small caps over the past twelve months. The Wilshire US Micro Cap IndexSM was up +9.21% for the quarter and +19.37% for the one year. Within the small cap space, growth stocks have generally outpaced value stocks except for the most recent quarter where value led growth.

Yield Curve Slope: 10 Year minus 2 Year Treasuries Spread (%)



Source: Federal Reserve

Sector performance was mixed with seven of the eleven major sectors producing gains. The best performing sector was Energy (+14.2%), while Financials (-2.4%) and Industrials (-2.2%) were the main detractors from total return.

The shape of the yield curve is often considered when looking for signs of a potentially slowing economy. A common measurement of slope, the 10 year minus 2 year Treasuries spread, has been on the decline since late 2013 and is currently below the long-term average at 0.38%. It should be noted that the last three times that the spread went negative (1989, 2000 and 2007); the U.S. economy entered a recession not long afterwards. While the short end of the curve is directly linked to the Federal funds rate, the long end is driven by market activity. Continued economic growth without upward movement in long rates could be an indication that market participants are expecting a slowdown.

The Non-U.S. Equity Market

Equity markets outside of the U.S. produced mixed results during the second quarter of 2018, while currency had a major effect on U.S.-based investors. As global growth slowed and the Federal Reserve adopted a more aggressive stance on interest rates, the U.S. dollar was up approximately 5% versus a basket of international currencies. Equity price volatility affected global markets, as tensions seemed to escalate between the U.S. and its major trading partners. It is yet to be seen, however, how much of the threatened tariffs and retaliation is actually implemented. Already having been rattled by the Greek financial crisis and Brexit in recent years, the European Union faces a fresh challenge with political developments in Italy. The broad developed markets index, however, was in positive territory for the quarter in local currency terms.

Non-U.S. Equity	USD (%)				Local Currency (%)			
	MTD	QTD	YTD	1 Year	MTD	QTD	YTD	1 Year
MSCI AC World ex U.S.	-1.88	-2.61	-3.77	7.28	-0.74	1.88	-1.25	7.44
MSCI EAFE	-1.22	-1.24	-2.75	6.84	-0.31	3.47	-0.96	6.12
MSCI Europe	-0.67	-1.27	-3.23	5.28	-0.29	4.08	-0.45	4.30
MSCI Pacific	-2.22	-1.35	-2.02	9.91	-0.42	2.26	-1.97	9.64
MSCI Japan	-2.52	-2.84	-2.03	10.51	-0.62	1.20	-3.66	8.94
MSCI EM (Emerging Markets)	-4.15	-7.96	-6.66	8.20	-2.46	-3.51	-2.82	10.47
MSCI ACWI ex U.S. Small Cap	-2.73	-2.60	-2.94	10.57	-1.43	1.99	-0.48	10.74

The Fixed Income Market

The U.S. Treasury yield curve rose across all maturities during the quarter with the biggest increases occurring in the short to intermediate segment of the curve. The bellwether 10 year Treasury yield ended the quarter at 2.85%, up 11 basis points from March. The Federal Open Market Committee decided to increase its overnight rate by 25 basis points in June to a range of 1.75% to 2.00%. Expressing generally strong sentiment toward the health of the economy, there has been little indication that the Fed is looking to change course. Credit spreads widened during the quarter within investment grade credit; however, little changed for spreads in the high yield market.

U.S. Fixed Income	MTD (%)	QTD (%)	YTD (%)	1 Year (%)
Barclays U.S. Aggregate	-0.12	-0.16	-1.62	-0.40
Barclays Long Govt./Credit	-0.62	-1.45	-4.98	-0.78
Barclays Long Term Treasury	0.18	0.31	-3.00	-0.13
Barclays U.S. TIPS	0.40	0.77	-0.02	2.11
Barclays U.S. Credit	-0.47	-0.88	-2.99	-0.65
Barclays U.S. Corporate High Yield	0.40	1.03	0.16	2.62
Global Fixed Income	MTD (%)	QTD (%)	YTD (%)	1 Year (%)
Barclays Global Aggregate	-0.44	2.78	-1.46	1.36
Barclays Global Aggregate (Hedged)	0.19	0.19	0.07	1.66
Barclays EM Local Currency Government Universal	-2.41	-5.94	-3.01	0.87
Barclays EM Local Currency Govt Univ (Hedged)	0.02	-0.43	0.66	0.56

The Real Estate & Commodity Markets

Real estate securities rebounded strongly during the quarter on solid economic fundamentals and are back in positive territory for the year. Commodities were up big for the quarter as crude oil rose 14.2% to \$74.15 per barrel. Natural gas prices were up 7.0%, ending the quarter at \$2.92 per million BTUs. MLP returns were back in positive territory for the quarter (+11.80%) but are down for the past twelve months (-4.58%). Finally, gold prices were down and finished at approximately \$1,255 per troy ounce, down 5.5% from last quarter.

Real Estate / Commodity	MTD (%)	QTD (%)	YTD (%)	1 Year (%)
Wilshire US RESI SM	4.22	9.74	1.60	4.00
Wilshire Global ex US RESI SM	-1.78	-0.55	-1.71	7.04
Wilshire Global RESI SM	2.22	6.00	0.50	5.12
Dow Jones UBS Commodity Index	-3.49	0.40	0.00	7.35
S&P GSCI Commodity	1.36	8.00	10.36	30.04
Alerian MLP Index	-1.54	11.80	-0.63	-4.58

II. Direct Plan

Target Portfolios

The corresponding Age-Based portfolios are shown below

Report as of: June 30, 2018	Conservative	Moderate	Aggressive	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
CollegeCounts Target Fund Fixed Income Portfolio	19+			0.11%	0.24%	0.21%	0.81%	0.91%	0.83%	1.22%
Target Fund Fixed Income Blended Benchmark				0.07%	0.29%	0.18%	0.77%	0.97%	0.93%	1.28%
Excess Return				0.04%	-0.05%	0.04%	0.05%	-0.06%	-0.10%	-0.06%
<i>CollegeCounts Target Fund Fixed Income Composite</i>				0.13%	0.33%	0.23%	0.81%	1.07%	1.00%	1.32%
CollegeCounts Fund 10 Portfolio	17-18	19+		0.22%	0.55%	-0.07%	1.56%	n/a	n/a	1.51%
Fund 10 Blended Benchmark				0.06%	0.41%	-0.17%	1.49%	n/a	n/a	1.44%
Excess Return				0.16%	0.14%	0.10%	0.07%	n/a	n/a	0.07%
<i>CollegeCounts Fund 10 Composite</i>				0.14%	0.47%	-0.10%	1.47%	n/a	n/a	1.43%
CollegeCounts Target Fund 20 Portfolio	15-16	17-18	19+	0.17%	0.74%	-0.17%	2.30%	2.86%	3.44%	4.09%
Target Fund 20 Blended Benchmark				0.12%	0.76%	-0.15%	2.40%	3.00%	3.56%	4.25%
Excess Return				0.05%	-0.02%	-0.02%	-0.11%	-0.14%	-0.12%	-0.16%
<i>CollegeCounts Target Fund 20 Composite</i>				0.20%	0.72%	-0.17%	2.26%	2.96%	3.53%	4.16%
CollegeCounts Fund 30 Portfolio	13-14	15-16	17-18	0.11%	0.82%	-0.16%	3.37%	n/a	n/a	3.76%
Fund 30 Blended Benchmark				0.07%	0.81%	-0.18%	3.46%	n/a	n/a	3.82%
Excess Return				0.04%	0.01%	0.02%	-0.09%	n/a	n/a	-0.06%
<i>CollegeCounts Fund 30 Composite</i>				0.14%	0.79%	-0.16%	3.32%	n/a	n/a	3.71%
CollegeCounts Target Fund 40 Portfolio	11-12	13-14	15-16	0.15%	0.89%	-0.06%	4.56%	4.73%	5.54%	6.21%
Target Fund 40 Blended Benchmark				0.02%	0.95%	-0.11%	4.65%	4.87%	5.67%	6.45%
Excess Return				0.13%	-0.06%	0.05%	-0.09%	-0.15%	-0.13%	-0.24%
<i>CollegeCounts Target Fund 40 Composite</i>				0.09%	0.86%	-0.13%	4.44%	4.80%	5.63%	6.30%
CollegeCounts Fund 50 Portfolio	9-10	11-12	13-14	0.11%	1.06%	0.04%	5.69%	n/a	n/a	6.60%
Fund 50 Blended Benchmark				0.01%	1.11%	0.01%	5.85%	n/a	n/a	6.68%
Excess Return				0.10%	-0.04%	0.03%	-0.15%	n/a	n/a	-0.08%
<i>CollegeCounts Fund 50 Composite</i>				0.06%	1.01%	0.00%	5.64%	n/a	n/a	6.54%
CollegeCounts Target Fund 60 Portfolio	6-8	9-10	11-12	0.08%	1.25%	0.18%	6.65%	6.10%	7.09%	7.81%
Target Fund 60 Blended Benchmark				0.06%	1.38%	0.19%	6.91%	6.25%	7.21%	8.08%
Excess Return				0.02%	-0.13%	-0.01%	-0.27%	-0.15%	-0.12%	-0.27%
<i>CollegeCounts Target Fund 60 Composite</i>				0.09%	1.22%	0.14%	6.63%	6.17%	7.18%	7.87%
CollegeCounts Fund 70 Portfolio	3-5	6-8	9-10	0.11%	1.48%	0.31%	7.73%	n/a	n/a	9.05%
Fund 70 Blended Benchmark				0.10%	1.63%	0.31%	7.95%	n/a	n/a	9.17%
Excess Return				0.01%	-0.15%	-0.01%	-0.22%	n/a	n/a	-0.12%
<i>CollegeCounts Fund 70 Composite</i>				0.14%	1.46%	0.27%	7.76%	n/a	n/a	8.99%

Target Portfolios

The corresponding Age-Based portfolios are shown below

Report as of: June 30, 2018	Conservative	Moderate	Aggressive	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
CollegeCounts Target Fund 80 Portfolio	0-2	3-5	6-8	0.07%	1.52%	0.52%	9.22%	7.81%	8.94%	9.56%
Target Fund 80 Blended Benchmark				0.02%	1.71%	0.57%	9.46%	7.92%	9.00%	9.87%
Excess Return				0.05%	-0.19%	-0.05%	-0.23%	-0.11%	-0.07%	-0.31%
<i>CollegeCounts Target Fund 80 Composite</i>				0.04%	1.54%	0.54%	9.25%	6.90%	8.37%	9.52%
CollegeCounts Fund 90 Portfolio		0-2	3-5	0.02%	1.74%	0.70%	10.34%	n/a	n/a	12.25%
Fund 90 Blended Benchmark				0.03%	1.91%	0.71%	10.60%	n/a	n/a	12.41%
Excess Return				-0.01%	-0.17%	-0.02%	-0.27%	n/a	n/a	-0.17%
<i>CollegeCounts Fund 90 Composite</i>				0.02%	1.68%	0.66%	10.31%	n/a	n/a	12.23%
CollegeCounts Target Fund 100 Portfolio			0-2	-0.02%	1.69%	0.56%	11.03%	9.07%	10.51%	11.07%
Target Fund 100 Blended Benchmark				0.02%	2.03%	0.68%	11.50%	9.19%	10.55%	11.46%
Excess Return				-0.04%	-0.35%	-0.11%	-0.48%	-0.12%	-0.03%	-0.39%
<i>CollegeCounts Target Fund 100 Composite</i>				-0.03%	1.72%	0.59%	11.08%	9.08%	10.52%	11.12%

Notes:

The Inception Date for all Target Portfolios is August 2, 2010. The Inception Date for all non-Target Portfolios is September 28, 2016.

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Management fees (25 bps).

The Blended Benchmarks for the Target and Age-Based Portfolios are comprised of the Asset Class Benchmarks according to the CollegeCounts 529 Plan Investment Policy Statement. The computation of Blended Benchmarks used in reports prior to that time employed individual fund benchmarks.

Individual Portfolios

	Inception Date	Assets (MM)	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
Money Market Funds									
Vanguard Prime Money Market 529 Portfolio †	8/2/2010	\$18.6	0.14%	0.43%	0.77%	1.28%	0.72%	0.45%	0.32%
Citigroup Global Markets - 3 Month T-Bill Index			0.15%	0.44%	0.79%	1.33%	0.64%	0.39%	0.28%
Excess Return			-0.01%	0.00%	-0.02%	-0.05%	0.08%	0.06%	0.04%
Fixed Income Funds									
PIMCO Short-Term 529 Portfolio	8/2/2010	\$141.0	0.20%	0.78%	1.03%	2.16%	2.07%	1.88%	1.73%
Citigroup Global Markets 3-Month T-Bill Index			0.15%	0.44%	0.79%	1.33%	0.64%	0.39%	0.28%
Excess Return			0.05%	0.35%	0.24%	0.83%	1.43%	1.48%	1.45%
Barclays - U.S. Gov't/Credit 1-3 Year Index			0.01%	0.28%	0.08%	0.21%	0.71%	0.84%	0.95%
Excess Return			0.19%	0.50%	0.95%	1.95%	1.36%	1.04%	0.78%
Vanguard Short-Term Infl-Protected 529 Portfolio †	9/30/2013	\$20.9	0.22%	0.46%	0.73%	1.36%	1.05%	n/a	0.56%
Barclays Capital - U.S. 0-5 Year TIPS Index			0.16%	0.48%	0.69%	1.38%	1.12%	n/a	0.63%
Excess Return			0.06%	-0.02%	0.03%	-0.03%	-0.07%	n/a	-0.07%
Vanguard Short Term Bond 529 Portfolio †	9/30/2013	\$38.3	0.02%	0.16%	-0.36%	-0.23%	0.81%	n/a	1.02%
Barclays 1-5 year Gov/Cred Float Adjusted Index			-0.02%	0.17%	-0.33%	-0.20%	0.84%	n/a	1.06%
Excess Return			0.05%	-0.01%	-0.03%	-0.02%	-0.03%	n/a	-0.04%
Vanguard Inflation-Protected Securities 529 Portfolio	8/2/2010	\$1.2	0.60%	0.80%	-0.12%	1.85%	1.88%	1.67%	2.73%
Barclays Capital - U.S. TIPS Index			0.40%	0.77%	-0.02%	2.11%	1.93%	1.68%	2.79%
Excess Return			0.20%	0.03%	-0.10%	-0.27%	-0.05%	-0.01%	-0.06%
MainStay Total Return Bond 529 Portfolio	12/17/2014	\$97.8	-0.26%	-0.41%	-2.10%	-0.69%	2.08%	n/a	1.80%
Barclays Capital Aggregate Bond Index			-0.12%	-0.16%	-1.62%	-0.40%	1.72%	n/a	1.44%
Excess Return			-0.14%	-0.25%	-0.48%	-0.29%	0.36%	n/a	0.36%

Notes:

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Manager fees (25 bps).

† Indicates fund is held in the Age-Based and Target Risk portfolios.

Individual Portfolios

	Inception Date	Assets (MM)	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
Fixed Income Funds (continued)									
Fidelity Advisor Investment Grade Bond 529 Portfolio	10/10/2012	\$2.1	0.02%	-0.21%	-1.67%	-0.40%	1.93%	2.53%	1.83%
Barclays Capital Aggregate Bond Index			-0.12%	-0.16%	-1.62%	-0.40%	1.72%	2.27%	1.56%
Excess Return			0.14%	-0.05%	-0.06%	0.00%	0.21%	0.25%	0.27%
Vanguard Total Bond Market Index 529 Portfolio †									
Vanguard Total Bond Market Index 529 Portfolio †	8/2/2010	\$90.4	0.02%	-0.18%	-1.67%	-0.57%	1.68%	2.22%	2.59%
Barclays Capital - U.S. Aggregate Float Adjusted Index			-0.14%	-0.20%	-1.67%	-0.45%	1.74%	2.26%	2.65%
Excess Return			0.16%	0.01%	0.00%	-0.12%	-0.05%	-0.05%	-0.06%
Balanced Funds									
T. Rowe Price Balanced 529 Portfolio	8/2/2010	\$55.7	-0.08%	0.98%	0.95%	8.68%	7.38%	8.75%	9.23%
T. Rowe Price Balanced Fund Blended Benchmark			0.12%	1.57%	0.52%	8.14%	7.50%	8.65%	9.39%
Excess Return			-0.20%	-0.58%	0.43%	0.54%	-0.12%	0.09%	-0.16%
Domestic Equity Funds									
T. Rowe Price Large-Cap Growth 529 Portfolio	8/1/2014	\$99.2	1.13%	6.73%	11.90%	28.94%	17.97%	n/a	16.87%
Russell - 1000 Growth Index			0.96%	5.76%	7.25%	22.51%	14.98%	n/a	14.62%
Excess Return			0.17%	0.98%	4.64%	6.43%	2.99%	n/a	2.25%
Vanguard Growth Index 529 Portfolio	8/2/2010	\$10.5	1.18%	5.86%	7.11%	19.27%	13.27%	15.31%	15.36%
CRSP US Large Cap Growth Index			1.20%	5.90%	7.17%	19.37%	13.35%	15.41%	15.49%
Excess Return			-0.01%	-0.05%	-0.06%	-0.10%	-0.08%	-0.10%	-0.13%

Notes:

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Manager fees (25 bps).

† Indicates fund is held in the Age-Based and Target Risk portfolios.

Individual Portfolios

	Inception Date	Assets (MM)	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
Domestic Equity Funds (continued)									
Vanguard Total Stock Market Index 529 Portfolio †	8/2/2010	\$130.8	0.70%	3.93%	3.30%	14.82%	11.57%	13.25%	14.13%
CRSP US Total Market Index			0.69%	3.91%	3.29%	14.83%	11.60%	13.28%	14.50%
Excess Return			0.01%	0.02%	0.01%	-0.01%	-0.03%	-0.03%	-0.37%
Vanguard 500 Index 529 Portfolio	8/2/2010	\$22.2	0.60%	3.41%	2.63%	14.34%	11.89%	13.38%	14.06%
S&P 500 Index			0.62%	3.43%	2.65%	14.37%	11.93%	13.42%	14.15%
Excess Return			-0.01%	-0.03%	-0.02%	-0.03%	-0.04%	-0.04%	-0.09%
DFA U.S. Large Cap Value 529 Portfolio	8/1/2014	\$96.6	-0.72%	0.44%	-1.91%	10.31%	9.75%	n/a	8.22%
Russell - 1000 Value Index			0.25%	1.18%	-1.69%	6.77%	8.26%	n/a	7.84%
Excess Return			-0.97%	-0.74%	-0.22%	3.54%	1.49%	n/a	0.38%
Vanguard Value Index 529 Portfolio	8/2/2010	\$4.7	0.18%	1.26%	-1.07%	10.21%	10.34%	11.64%	12.85%
CRSP US Large Cap Value Index			0.17%	1.26%	-1.06%	10.22%	10.37%	11.69%	12.95%
Excess Return			0.01%	0.00%	-0.01%	-0.01%	-0.03%	-0.05%	-0.10%
Vanguard Extended Market Index 529 Portfolio	8/2/2010	\$1.7	0.93%	6.10%	6.29%	16.95%	10.42%	12.65%	14.03%
S&P Completion Index			0.87%	5.94%	6.07%	16.72%	10.23%	12.53%	14.30%
Excess Return			0.06%	0.17%	0.22%	0.23%	0.20%	0.12%	-0.27%
Vanguard Mid-Cap Index 529 Portfolio	8/2/2010	\$7.7	0.93%	2.56%	2.58%	12.08%	9.20%	12.29%	13.48%
CRSP US Mid Cap Index			0.93%	2.58%	2.60%	12.12%	9.25%	12.35%	14.05%
Excess Return			0.00%	-0.01%	-0.02%	-0.04%	-0.05%	-0.06%	-0.57%
Vanguard Explorer 529 Portfolio	8/1/2014	\$1.1	0.87%	7.02%	11.49%	23.52%	11.32%	n/a	11.90%
Russell - 2500 Growth Index			0.84%	5.53%	8.04%	21.53%	10.86%	n/a	12.69%
Excess Return			0.03%	1.49%	3.45%	1.99%	0.46%	n/a	-0.79%

Notes:

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Manager fees (25 bps).

† Indicates fund is held in the Age-Based and Target Risk portfolios.

Individual Portfolios

	Inception Date	Assets (MM)	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
Domestic Equity Funds (continued)									
Vanguard Small-Cap Growth Index 529 Portfolio	8/2/2010	\$5.3	1.22%	7.39%	9.64%	21.46%	10.62%	12.38%	14.45%
CRSP US Small Cap Growth Index			1.19%	7.34%	9.59%	21.42%	10.54%	12.31%	14.59%
Excess Return			0.03%	0.05%	0.06%	0.04%	0.08%	0.07%	-0.14%
Vanguard Small-Cap Index 529 Portfolio	8/2/2010	\$3.3	0.71%	6.22%	5.97%	16.50%	10.42%	12.38%	13.95%
CRSP US Small Cap Index			0.73%	6.20%	5.97%	16.47%	10.43%	12.39%	14.34%
Excess Return			-0.02%	0.02%	0.00%	0.02%	-0.01%	0.00%	-0.39%
DFA U.S. Small Cap Value 529 Portfolio	8/1/2014	\$0.8	0.02%	7.74%	5.23%	15.05%	9.06%	n/a	8.47%
Russell - 2000 Value Index			0.61%	8.30%	5.44%	13.10%	11.22%	n/a	10.44%
Excess Return			-0.58%	-0.57%	-0.21%	1.95%	-2.15%	n/a	-1.97%
Vanguard Small-Cap Value Index 529 Portfolio	8/2/2010	\$3.6	0.36%	5.31%	3.12%	12.51%	10.30%	12.38%	13.37%
CRSP US Small Cap Value Index			0.35%	5.26%	3.06%	12.52%	10.34%	12.43%	13.79%
Excess Return			0.01%	0.05%	0.07%	-0.01%	-0.04%	-0.05%	-0.42%
International Equity Funds									
Dodge & Cox International Stock 529 Portfolio	8/1/2014	\$1.7	-1.73%	-5.10%	-7.21%	0.45%	2.04%	n/a	0.56%
MSCI - EAFE Index			-1.22%	-1.24%	-2.75%	6.84%	4.90%	n/a	3.12%
Excess Return			-0.51%	-3.86%	-4.46%	-6.38%	-2.86%	n/a	-2.56%
Vanguard Total International Stock Index 529 Portfolio †	8/2/2010	\$71.9	-2.07%	-3.23%	-3.67%	7.04%	5.26%	6.39%	5.48%
MSCI ACWI ex USA IMI Index			-2.00%	-2.61%	-3.65%	7.74%	5.46%	6.39%	5.82%
Excess Return			-0.07%	-0.62%	-0.02%	-0.70%	-0.20%	0.00%	-0.34%

Notes:

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Manager fees (25 bps).

† Indicates fund is held in the Age-Based and Target Risk portfolios.

Individual Portfolios

	Inception Date	Assets (MM)	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
Real Estate Funds									
Vanguard REIT Index 529 Portfolio †	8/2/2010	\$19.4	4.18%	8.86%	0.03%	2.28%	7.50%	7.92%	9.95%
MSCI US REIT Index			4.42%	10.10%	1.19%	4.31%	8.32%	8.41%	10.84%
Excess Return			-0.24%	-1.24%	-1.16%	-2.04%	-0.82%	-0.50%	-0.89%

Notes:
 Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Manager fees (25 bps).
 † Indicates fund is held in the Age-Based and Target Risk portfolios.

Asset Allocation

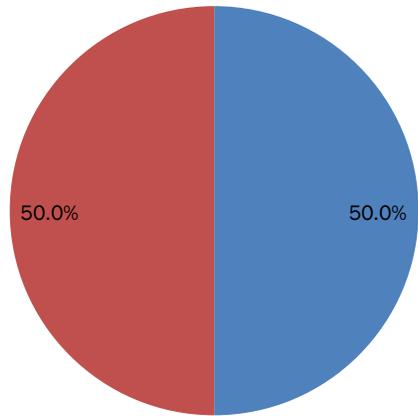
Allocation as of 6/30/2018

	Target Fund Fixed Income	Target Fund 20	Target Fund 40	Target Fund 60	Target Fund 80	Target Fund 100					
Aggressive Age-Based Option		19 plus	17-18	15-16	13-14	11-12	9-10	6-8	3-5	0-2	
Moderate Age-Based Option		19 plus	17-18	15-16	13-14	11-12	9-10	6-8	3-5	0-2	
Conservative Age-Based Option	19 plus	17-18	15-16	13-14	11-12	9-10	6-8	3-5	0-2		
Money Market Funds											
Vanguard Prime Money Market	50.0%	23.0%	9.0%	-	-	-	-	-	-	-	-
Total Money Market Funds	50.0%	23.0%	9.0%	-	-	-	-	-	-	-	-
Fixed Income Funds											
Vanguard Short Term Bond Index	20.0%	22.0%	25.0%	22.0%	14.0%	11.0%	9.0%	6.0%	4.0%	2.0%	-
Vanguard Short-Term Infl Protected Securities Index	15.0%	14.0%	11.0%	13.0%	9.0%	4.0%	4.0%	4.0%	3.0%	2.0%	-
Vanguard Total Bond Market Index	15.0%	31.0%	35.0%	35.0%	37.0%	35.0%	27.0%	20.0%	13.0%	6.0%	-
Total Fixed Income Funds	50.0%	67.0%	71.0%	70.0%	60.0%	50.0%	40.0%	30.0%	20.0%	10.0%	-
Domestic Equity Funds											
Vanguard Total Stock Market Index	-	7.0%	13.0%	19.0%	25.0%	32.0%	36.0%	40.0%	49.0%	54.0%	56.0%
Total Domestic Equity Funds	-	7.0%	13.0%	19.0%	25.0%	32.0%	36.0%	40.0%	49.0%	54.0%	56.0%
International Equity Funds											
Vanguard Total International Stock Index	-	2.0%	4.0%	8.0%	12.0%	15.0%	19.0%	23.0%	26.0%	30.0%	36.0%
Total International Equity Funds	-	2.0%	4.0%	8.0%	12.0%	15.0%	19.0%	23.0%	26.0%	30.0%	36.0%
Real Estate Funds											
Vanguard REIT Index	-	1.0%	3.0%	3.0%	3.0%	3.0%	5.0%	7.0%	5.0%	6.0%	8.0%
Total Real Estate Funds	-	1.0%	3.0%	3.0%	3.0%	3.0%	5.0%	7.0%	5.0%	6.0%	8.0%
Total Allocation	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

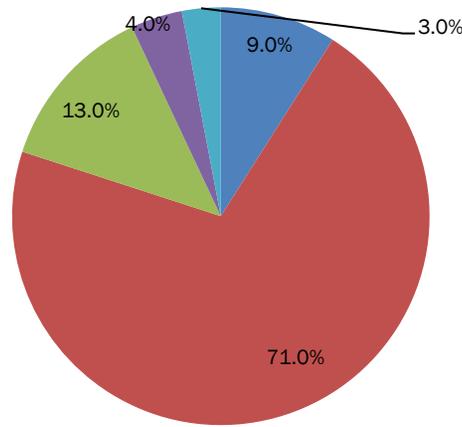
Asset Allocation

Allocation as of 6/30/2018

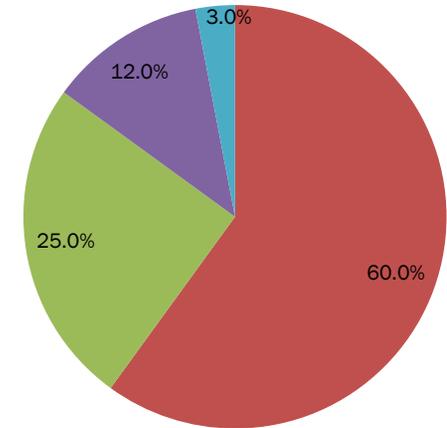
**Target Fund
Fixed Income**



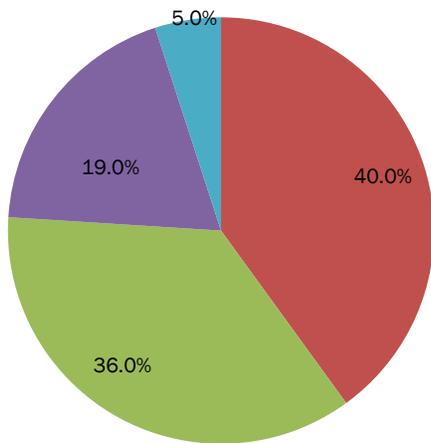
**Target Fund
20**



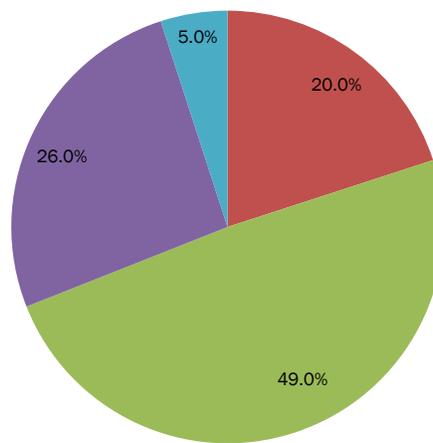
**Target Fund
40**



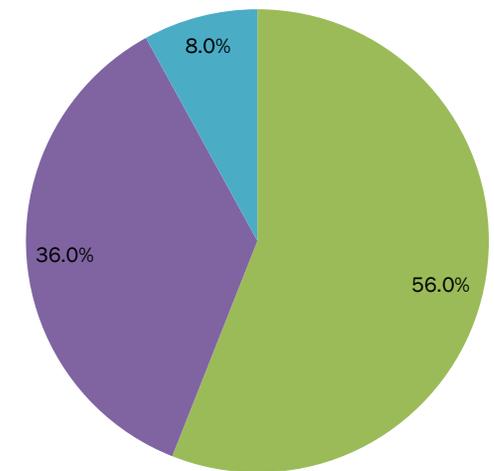
**Target Fund
60**



**Target Fund
80**



**Target Fund
100**



■ Money Market Funds

■ Fixed Income Funds

■ Domestic Equity Funds

■ International Equity Funds

■ Real Estate Funds

III. Advisor Plan

Target Portfolios

The corresponding Age-Based portfolios are shown below

Report as of: June 30, 2018				Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
	Conservative	Moderate	Aggressive							
CollegeCounts Target Fund Fixed Income Portfolio	19+			0.12%	0.48%	0.48%	1.26%	1.08%	0.97%	1.36%
Target Fund Fixed Income Blended Benchmark				0.12%	0.36%	0.40%	1.07%	0.73%	0.59%	1.07%
Excess Return				0.00%	0.11%	0.08%	0.19%	0.35%	0.38%	0.29%
<i>CollegeCounts Target Fund Fixed Income Composite</i>				0.05%	0.20%	0.05%	0.56%	0.83%	0.82%	1.26%
CollegeCounts Fund 10 Portfolio	17-18	19+		0.04%	0.50%	0.32%	2.29%	n/a	n/a	2.69%
Fund 10 Blended Benchmark				0.08%	0.36%	0.20%	2.11%	n/a	n/a	1.96%
Excess Return				-0.05%	0.13%	0.11%	0.18%	n/a	n/a	0.74%
<i>CollegeCounts Fund 10 Composite</i>				0.03%	0.38%	0.11%	1.95%	n/a	n/a	2.47%
CollegeCounts Target Fund 20 Portfolio	15-16	17-18	19+	0.04%	0.63%	0.36%	3.29%	3.49%	3.79%	4.47%
Target Fund 20 Blended Benchmark				0.08%	0.45%	0.22%	3.08%	3.09%	3.39%	4.09%
Excess Return				-0.05%	0.17%	0.14%	0.21%	0.40%	0.40%	0.38%
<i>CollegeCounts Target Fund 20 Composite</i>				-0.01%	0.57%	0.23%	3.15%	3.38%	3.71%	4.32%
CollegeCounts Fund 30 Portfolio	13-14	15-16	17-18	-0.06%	0.57%	0.30%	4.26%	n/a	n/a	5.39%
Fund 30 Blended Benchmark				0.01%	0.54%	0.20%	4.08%	n/a	n/a	4.39%
Excess Return				-0.07%	0.02%	0.10%	0.18%	n/a	n/a	0.99%
<i>CollegeCounts Fund 30 Composite</i>				-0.07%	0.58%	0.26%	4.22%	n/a	n/a	5.34%
CollegeCounts Target Fund 40 Portfolio	11-12	13-14	15-16	-0.16%	0.69%	0.34%	5.34%	4.98%	5.57%	6.24%
Target Fund 40 Blended Benchmark				0.02%	0.69%	0.23%	5.03%	4.82%	5.36%	6.11%
Excess Return				-0.17%	0.00%	0.11%	0.32%	0.16%	0.21%	0.13%
<i>CollegeCounts Target Fund 40 Composite</i>				-0.12%	0.69%	0.32%	5.28%	4.95%	5.53%	6.20%
CollegeCounts Fund 50 Portfolio	9-10	11-12	13-14	-0.22%	0.64%	0.31%	6.42%	n/a	n/a	8.08%
Fund 50 Blended Benchmark				-0.04%	0.80%	0.27%	6.21%	n/a	n/a	7.07%
Excess Return				-0.19%	-0.16%	0.03%	0.21%	n/a	n/a	1.01%
<i>CollegeCounts Fund 50 Composite</i>				-0.15%	0.72%	0.36%	6.38%	n/a	n/a	8.09%
CollegeCounts Target Fund 60 Portfolio	6-8	9-10	11-12	-0.24%	0.74%	0.51%	7.46%	6.26%	7.12%	7.80%
Target Fund 60 Blended Benchmark				-0.08%	1.01%	0.44%	7.24%	6.28%	7.01%	7.76%
Excess Return				-0.17%	-0.27%	0.06%	0.22%	-0.02%	0.11%	0.04%
<i>CollegeCounts Target Fund 60 Composite</i>				-0.23%	0.77%	0.46%	7.40%	6.22%	7.09%	7.77%

Target Portfolios

The corresponding Age-Based portfolios are shown below

Report as of: June 30, 2018

	Conservative	Moderate	Aggressive	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
CollegeCounts Fund 70 Portfolio	3-5	6-8	9-10	-0.31%	0.87%	0.63%	8.52%	n/a	n/a	10.34%
Fund 70 Blended Benchmark				-0.09%	1.20%	0.53%	8.12%	n/a	n/a	9.42%
Excess Return				-0.21%	-0.33%	0.10%	0.40%	n/a	n/a	0.92%
<i>CollegeCounts Fund 70 Composite</i>				-0.27%	0.90%	0.59%	8.46%	n/a	n/a	10.31%
CollegeCounts Target Fund 80 Portfolio	0-2	3-5	6-8	-0.31%	1.02%	0.87%	9.96%	7.77%	8.84%	9.44%
Target Fund 80 Blended Benchmark				-0.11%	1.49%	0.80%	9.57%	7.88%	8.76%	9.42%
Excess Return				-0.20%	-0.47%	0.07%	0.39%	-0.11%	0.08%	0.02%
<i>CollegeCounts Target Fund 80 Composite</i>				-0.26%	1.09%	0.91%	9.95%	7.72%	8.79%	9.38%
CollegeCounts Fund 90 Portfolio		0-2	3-5	-0.29%	1.18%	1.03%	11.07%	n/a	n/a	13.34%
Fund 90 Blended Benchmark				-0.09%	1.76%	0.90%	10.30%	n/a	n/a	12.21%
Excess Return				-0.20%	-0.59%	0.13%	0.77%	n/a	n/a	1.12%
<i>CollegeCounts Fund 90 Composite</i>				-0.29%	1.30%	1.07%	11.06%	n/a	n/a	13.07%
CollegeCounts Target Fund 100 Portfolio			0-2	-0.38%	1.15%	1.02%	12.13%	8.91%	10.44%	10.96%
Target Fund 100 Blended Benchmark				-0.20%	1.83%	0.86%	11.50%	9.04%	10.32%	10.95%
Excess Return				-0.18%	-0.68%	0.16%	0.63%	-0.12%	0.12%	0.01%
<i>CollegeCounts Target Fund 100 Composite</i>				-0.33%	1.21%	1.01%	12.07%	8.88%	10.40%	10.89%

Notes:

The Inception Date for all Target Portfolios is August 2, 2010. The Inception Date for all non-Target Portfolios is September 28, 2016.

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Management fees (32 bps) and State Administration fees (10 bps).

The Blended Benchmarks for the Target and Age-Based Portfolios are comprised of the Asset Class Benchmarks according to the CollegeCounts 529 Plan Investment Policy Statement. The computation of Blended Benchmarks used in reports prior to that time employed individual fund benchmarks.

Individual Portfolios

	Inception Date	Assets (MM)	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
Money Market Funds									
State Street U.S. Government Money Market 529 Portfolio †	7/27/2016	\$49.5	0.12%	0.37%	0.64%	1.03%	n/a	n/a	1.31%
T-Bill			0.17%	0.46%	0.81%	1.37%	n/a	n/a	1.83%
Excess Return			-0.05%	-0.09%	-0.17%	-0.33%	n/a	n/a	-0.52%
Fixed Income Funds									
PIMCO Short-Term 529 Portfolio †	8/2/2010	\$141.0	0.22%	0.84%	1.03%	2.18%	2.08%	1.87%	1.71%
Citigroup Global Markets 3-Month T-Bill Index			0.15%	0.44%	0.79%	1.33%	0.64%	0.39%	0.28%
Excess Return			0.06%	0.40%	0.25%	0.85%	1.45%	1.47%	1.43%
Barclays - U.S. Gov't/Credit 1-3 Year Index			0.01%	0.28%	0.08%	0.21%	0.71%	0.84%	0.95%
Excess Return			0.20%	0.56%	0.95%	1.97%	1.37%	1.03%	0.76%
American Century Short Duration Inflation Protection Bond 529 Portfolio †	9/26/2013	\$71.3	0.20%	0.50%	0.70%	1.00%	0.85%	n/a	0.25%
Barclays Capital - U.S. 1-5 Year TIPS Index			0.16%	0.47%	0.59%	1.19%	1.09%	n/a	0.62%
Excess Return			0.04%	0.03%	0.11%	-0.19%	-0.24%	n/a	-0.37%
BlackRock Inflation-Protected Bond 529 Portfolio	8/2/2010	\$2.2	0.30%	0.54%	-0.04%	2.17%	1.53%	1.26%	2.42%
Barclays Capital U.S. TIPS Index			0.40%	0.77%	-0.02%	2.11%	1.93%	1.68%	2.79%
Excess Return			-0.11%	-0.24%	-0.02%	0.06%	-0.39%	-0.41%	-0.37%
Fidelity Advisor Investment Grade Bond 529 Portfolio	10/10/2012	\$2.1	0.04%	-0.27%	-1.70%	-0.30%	1.97%	2.51%	1.71%
Barclays Capital - U.S. Aggregate Index			-0.12%	-0.16%	-1.62%	-0.40%	1.72%	2.27%	1.60%
Excess Return			0.16%	-0.11%	-0.08%	0.10%	0.25%	0.24%	0.11%

Notes:

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Manager fees (32 bps) and State Administration fees (10bps).

† Indicates fund is held in the Age-Based and Target Risk portfolios.

Individual Portfolios

	Inception Date	Assets (MM)	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
Fixed Income Funds (continued)									
Northern Funds Bond Index 529 Portfolio †	8/2/2010	\$96.2	-0.13%	-0.15%	-1.66%	-0.53%	1.54%	2.15%	2.36%
Barclays Capital - U.S. Aggregate Index			-0.12%	-0.16%	-1.62%	-0.40%	1.72%	2.27%	2.65%
Excess Return			-0.01%	0.01%	-0.04%	-0.13%	-0.18%	-0.12%	-0.29%
MainStay Total Return Bond 529 Portfolio †	12/17/2014	\$97.8	-0.24%	-0.37%	-2.12%	-0.52%	2.03%	n/a	1.76%
Barclays Capital - U.S. Aggregate Index			-0.12%	-0.16%	-1.62%	-0.40%	1.72%	n/a	1.44%
Excess Return			-0.12%	-0.21%	-0.51%	-0.13%	0.31%	n/a	0.32%
Touchstone High Yield 529 Portfolio †	10/10/2012	\$43.8	0.08%	0.41%	-0.81%	1.32%	2.83%	3.77%	3.60%
BofA Merrill Lynch - High Yield Master II Index			0.35%	1.02%	0.09%	2.54%	5.55%	5.51%	5.53%
Excess Return			-0.27%	-0.61%	-0.90%	-1.23%	-2.72%	-1.74%	-1.93%
Templeton International Bond 529 Portfolio †	10/10/2012	\$42.5	-0.89%	-2.63%	-1.38%	-2.35%	0.96%	0.30%	0.04%
Citigroup Global Markets - Non U.S. Govt Bond Index (\$)			-0.45%	-5.11%	-0.92%	3.22%	3.74%	1.01%	-0.79%
Excess Return			-0.44%	2.49%	-0.47%	-5.57%	-2.78%	-0.71%	0.83%
Balanced Funds									
T. Rowe Price Balanced 529 Portfolio	8/2/2010	\$55.7	-0.07%	0.99%	0.99%	8.72%	7.40%	8.78%	9.24%
T. Rowe Price Balanced Fund Blended Benchmark			0.12%	1.57%	0.52%	8.14%	7.50%	8.65%	9.39%
Excess Return			-0.18%	-0.58%	0.48%	0.59%	-0.11%	0.13%	-0.15%
Domestic Equity Funds									
T. Rowe Price Large Cap Growth 529 Portfolio †	8/2/2010	\$99.2	1.15%	6.75%	12.05%	29.12%	18.07%	19.41%	18.05%
Russell 1000 Growth Index			0.96%	5.76%	7.25%	22.51%	14.98%	16.36%	16.10%
Excess Return			0.19%	0.99%	4.79%	6.61%	3.09%	3.05%	1.95%

Notes:

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Manager fees (32 bps) and State Administration fees (10bps).

† Indicates fund is held in the Age-Based and Target Risk portfolios.

Individual Portfolios

	Inception Date	Assets (MM)	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
Domestic Equity Funds (continued)									
American Century Equity Growth 529 Portfolio	8/2/2010	\$6.2	-0.68%	3.01%	3.51%	15.94%	10.08%	12.08%	13.62%
S&P 500 Index			0.62%	3.43%	2.65%	14.37%	11.93%	13.42%	14.15%
Excess Return			-1.29%	-0.43%	0.86%	1.57%	-1.85%	-1.34%	-0.53%
Northern Stock Index 529 Portfolio †	8/2/2010	\$110.9	0.63%	3.43%	2.61%	14.32%	11.82%	13.32%	14.01%
S&P 500 Index			0.62%	3.43%	2.65%	14.37%	11.93%	13.42%	14.15%
Excess Return			0.01%	0.00%	-0.04%	-0.05%	-0.11%	-0.10%	-0.14%
DFA US Large Cap Value 529 Portfolio	2/6/2018	\$96.6	-0.81%	0.31%	n/a	n/a	n/a	n/a	-2.09%
Russell 1000 Value Index			0.25%	1.18%	n/a	n/a	n/a	n/a	-0.60%
Excess Return			-1.06%	-0.87%	n/a	n/a	n/a	n/a	-1.49%
Northern Mid-Cap Index 529 Portfolio †	8/2/2010	\$69.6	0.41%	4.20%	3.41%	13.34%	10.72%	12.50%	13.89%
S&P - Midcap 400 Index			0.42%	4.29%	3.49%	13.50%	10.89%	12.69%	14.10%
Excess Return			-0.02%	-0.10%	-0.08%	-0.16%	-0.17%	-0.18%	-0.21%
T. Rowe Price QM US Small-Cap Growth Equity 529 Portfolio †	9/28/2016	\$19.0	1.24%	5.56%	7.69%	18.87%	n/a	n/a	18.46%
MSCI - U.S. Small Cap Growth Index			0.98%	7.92%	9.12%	21.80%	n/a	n/a	19.56%
Excess Return			0.25%	-2.36%	-1.43%	-2.93%	n/a	n/a	-1.10%
Northern Small Cap Index 529 Portfolio	8/2/2010	\$7.2	0.68%	7.71%	7.56%	17.44%	10.88%	12.34%	13.60%
Russell - 2000 Index			0.72%	7.75%	7.66%	17.57%	10.96%	12.46%	13.71%
Excess Return			-0.04%	-0.05%	-0.10%	-0.12%	-0.08%	-0.12%	-0.11%

Notes:

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Manager fees (32 bps) and State Administration fees (10bps).

† Indicates fund is held in the Age-Based and Target Risk portfolios.

Individual Portfolios

	Inception Date	Assets (MM)	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
Domestic Equity Funds (continued)									
William Blair Small Cap Value 529 Portfolio	8/2/2010	\$12.3	0.16%	5.55%	1.17%	9.68%	8.96%	10.08%	11.42%
Russell 2000 Value Index			0.61%	8.30%	5.44%	13.10%	11.22%	11.18%	12.37%
Excess Return			-0.44%	-2.75%	-4.27%	-3.42%	-2.26%	-1.10%	-0.95%
Northern Small Cap Value Fund	8/2/2010	\$12.9	0.33%	6.34%	3.20%	9.88%	9.62%	11.21%	12.72%
Russell 2000 Value Index			0.61%	8.30%	5.44%	13.10%	11.22%	11.18%	12.37%
Excess Return			-0.28%	-1.97%	-2.24%	-3.22%	-1.59%	0.03%	0.35%
International Equity Funds									
Northern International Equity Index 529 Portfolio †	8/2/2010	\$57.6	-1.25%	-1.62%	-2.52%	6.37%	4.83%	6.34%	6.01%
MSCI - EAFE Index (\$Net)			-1.22%	-1.24%	-2.75%	6.84%	4.90%	6.44%	6.25%
Excess Return			-0.02%	-0.38%	0.24%	-0.47%	-0.07%	-0.10%	-0.24%
Neuberger Berman Int'l Large Cap 529 Portfolio †	8/2/2010	\$75.2	-1.22%	-1.51%	-1.59%	8.88%	5.69%	6.97%	6.41%
MSCI - EAFE Index (\$Net)			-1.22%	-1.24%	-2.75%	6.84%	4.90%	6.44%	6.25%
Excess Return			0.01%	-0.27%	1.17%	2.04%	0.79%	0.53%	0.16%
DFA International Small Company 529 Portfolio †	10/10/2012	\$13.7	-1.94%	-2.05%	-2.53%	8.84%	8.80%	10.10%	10.52%
MSCI - World Ex USA Small Index (\$Net)			-1.73%	-0.94%	-1.44%	11.87%	9.45%	10.28%	10.41%
Excess Return			-0.21%	-1.12%	-1.10%	-3.03%	-0.65%	-0.18%	0.11%

Notes:

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Manager fees (32 bps) and State Administration fees (10bps).

† Indicates fund is held in the Age-Based and Target Risk portfolios.

Individual Portfolios

	Inception Date	Assets (MM)	Month	QTD	YTD	1 Year	3 Year	5 Year	Since Inception
International Equity Funds (continued)									
Lazard Emerging Markets 529 Portfolio †	8/2/2010	\$25.4	-4.55%	-13.61%	-11.80%	0.06%	3.15%	2.42%	2.16%
MSCI - Emerging Markets Index (\$ Net)			-4.16%	-7.96%	-6.65%	8.20%	5.60%	5.01%	3.11%
Excess Return			-0.39%	-5.65%	-5.14%	-8.14%	-2.44%	-2.59%	-0.95%
Real Estate Funds									
Voya Global Real Estate 529 Portfolio †	10/10/2012	\$21.9	1.40%	2.59%	-2.24%	3.41%	3.01%	4.32%	4.79%
FTSE EPRA/NAREIT Developed Index (Net)			1.43%	5.12%	0.36%	5.72%	5.73%	5.99%	6.56%
Excess Return			-0.03%	-2.53%	-2.59%	-2.31%	-2.72%	-1.66%	-1.77%
T. Rowe Price Real Estate 529 Portfolio F	8/2/2010	\$3.3	3.34%	7.61%	-0.12%	4.20%	6.85%	8.16%	9.83%
Wilshire - REIT Index			4.45%	9.73%	1.52%	3.88%	7.84%	8.42%	10.42%
Excess Return			-1.12%	-2.12%	-1.64%	0.33%	-0.99%	-0.26%	-0.59%
Commodity Funds									
Credit Suisse Commodity Return Strategy 529 Portfolio †	10/10/2012	\$15.2	-3.76%	0.17%	-0.51%	6.11%	-4.71%	-6.58%	-8.84%
Bloomberg Commodity - UBS Commodity Index (Total Return)			-3.50%	0.40%	0.00%	7.35%	-4.54%	-6.40%	-8.36%
Excess Return			-0.26%	-0.23%	-0.51%	-1.24%	-0.18%	-0.17%	-0.48%

Notes:

Excess Return percentages, as displayed, may be affected by rounding. Net performance excludes 529 Program Manager fees (32 bps) and State Administration fees (10bps).

† Indicates fund is held in the Age-Based and Target Risk portfolios.

Asset Allocation

Allocation as of 6/30/2018

	Target Fund Fixed Income		Target Fund 20		Target Fund 40		Target Fund 60						
Aggressive Age-Based Option			19 plus		17-18		15-16		13-14		11-12		
Moderate Age-Based Option			19 plus		17-18		15-16		13-14		11-12	9-10	
Conservative Age-Based Option		19 plus		17-18		15-16		13-14		11-12		9-10	6-8
Money Market Funds													
State Street U.S. Government Money Market	50.0%	23.0%	9.0%	-	-	-	-	-	-	-	-	-	
Total Money Market Funds	50.0%	23.0%	9.0%	-	-	-	-	-	-	-	-	-	
Fixed Income Funds													
PIMCO Short-Term	20.0%	22.0%	25.0%	22.0%	14.0%	11.0%	9.0%	4.0%	4.0%				
American Century Short Duration Inflation Protected	15.0%	14.0%	11.0%	13.0%	9.0%	4.0%	4.0%	4.0%	4.0%				
Northern Bond Index	8.0%	13.0%	13.0%	13.0%	11.0%	9.0%	7.0%	7.0%	7.0%				
Mainstay Total Return	7.0%	12.0%	12.0%	12.0%	14.0%	14.0%	10.0%	10.0%	10.0%				
Touchstone High Yield	-	3.0%	5.0%	5.0%	6.0%	6.0%	5.0%	5.0%	5.0%				
Templeton International Bond	-	3.0%	5.0%	5.0%	6.0%	6.0%	5.0%	5.0%	5.0%				
Total Fixed Income Funds	50.0%	67.0%	71.0%	70.0%	60.0%	50.0%	40.0%	40.0%	40.0%				
Domestic Equity Funds													
T. Rowe Price Large Cap Growth	-	2.0%	3.0%	4.0%	6.0%	7.0%	8.0%	8.0%	8.0%				
Northern Equity Index	-	3.0%	6.0%	7.0%	8.0%	10.0%	10.0%	10.0%	10.0%				
DFA US Large Cap Value	-	2.0%	3.0%	4.0%	6.0%	7.0%	8.0%	8.0%	8.0%				
Northern Mid-Cap Index	-	1.0%	2.0%	2.0%	3.0%	6.0%	6.0%	6.0%	6.0%				
T. Rowe Price QM U.S. Small-Cap Growth	-	-	-	1.0%	1.0%	1.0%	2.0%	2.0%	2.0%				
Northern Small Cap Value	-	-	-	1.0%	1.0%	1.0%	2.0%	2.0%	2.0%				
Total Domestic Equity Funds	-	8.0%	14.0%	19.0%	25.0%	32.0%	36.0%	36.0%	36.0%				
International Equity Funds													
Northern International Equity Index	-	1.0%	2.0%	4.0%	4.0%	5.0%	6.0%	6.0%	6.0%				
Neuberger Berman Int'l Large Cap	-	1.0%	2.0%	4.0%	6.0%	8.0%	8.0%	8.0%	8.0%				
DFA International Small Company	-	-	-	-	-	-	2.0%	2.0%	2.0%				
Lazard Emerging Markets	-	-	-	1.0%	1.0%	2.0%	3.0%	3.0%	3.0%				
Total International Equity Funds	-	2.0%	4.0%	9.0%	11.0%	15.0%	19.0%	19.0%	19.0%				
Real Estate Funds													
Voya Global Real Estate	-	-	1.0%	1.0%	2.0%	2.0%	3.0%	3.0%	3.0%				
Total Real Estate Funds	-	-	1.0%	1.0%	2.0%	2.0%	3.0%	3.0%	3.0%				
Credit Suisse Commodity Return Strategy	-	-	1.0%	1.0%	2.0%	1.0%	2.0%	2.0%	2.0%				
Total Commodity Funds	-	-	1.0%	1.0%	2.0%	1.0%	2.0%	2.0%	2.0%				
Total Allocation	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%				

Asset Allocation

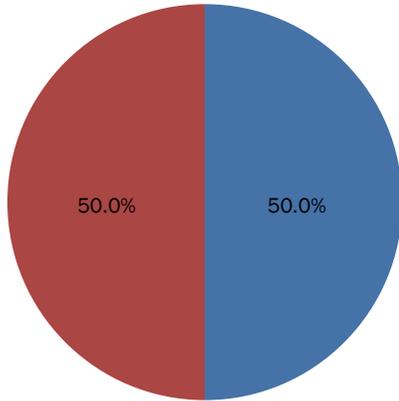
Allocation as of 6/30/2018

		Target Fund 80		Target Fund 100
Aggressive Age-Based Option	9-10	6-8	3-5	0-2
Moderate Age-Based Option	6-8	3-5	0-2	
Conservative Age-Based Option	3-5	0-2		
Money Market Funds				
State Street U.S. Government Money Market	-	-	-	-
Total Money Market Funds	-	-	-	-
Fixed Income Funds				
PIMCO Short-Term	6.0%	4.0%	2.0%	-
American Century Short Duration Inflation Protected	4.0%	3.0%	2.0%	-
Northern Bond Index	5.0%	3.0%	2.0%	-
Mainstay Total Return	7.0%	4.0%	2.0%	-
Touchstone High Yield	4.0%	3.0%	1.0%	-
Templeton International Bond	4.0%	3.0%	1.0%	-
Total Fixed Income Funds	30.0%	20.0%	10.0%	-
Domestic Equity Funds				
T. Rowe Price Large Cap Growth	9.0%	11.0%	12.0%	13.0%
Northern Equity Index	11.0%	13.0%	16.0%	16.0%
DFA US Large Cap Value	9.0%	11.0%	12.0%	12.0%
Northern Mid-Cap Index	7.0%	8.0%	8.0%	10.0%
T. Rowe Price QM U.S. Small-Cap Growth	2.0%	3.0%	3.0%	3.0%
Northern Small Cap Value	2.0%	3.0%	3.0%	3.0%
Total Domestic Equity Funds	40.0%	49.0%	54.0%	57.0%
International Equity Funds				
Northern International Equity Index	7.0%	8.0%	9.0%	11.0%
Neuberger Berman Int'l Large Cap	10.0%	11.0%	13.0%	15.0%
DFA International Small Company	3.0%	3.0%	4.0%	5.0%
Lazard Emerging Markets	3.0%	4.0%	4.0%	5.0%
Total International Equity Funds	23.0%	26.0%	30.0%	36.0%
Real Estate Funds				
Voya Global Real Estate	4.0%	3.0%	4.0%	5.0%
Total Real Estate Funds	4.0%	3.0%	4.0%	5.0%
Credit Suisse Commodity Return Strategy	3.0%	2.0%	2.0%	2.0%
Total Commodity Funds	3.0%	2.0%	2.0%	2.0%
Total Allocation	100.0%	100.0%	100.0%	100.0%

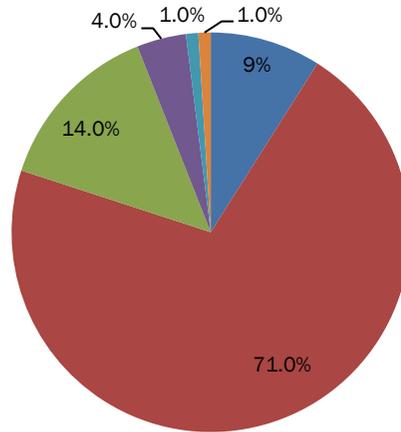
Asset Allocation

Allocation as of 6/30/2018

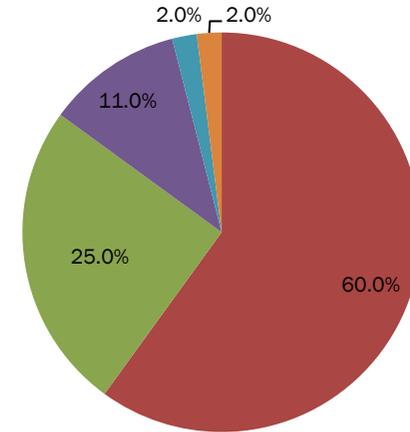
**Target Fund
Fixed Income**



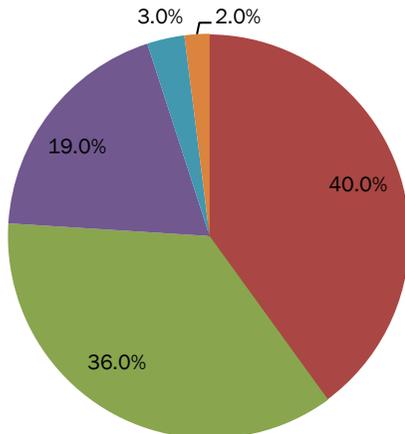
**Target Fund
20**



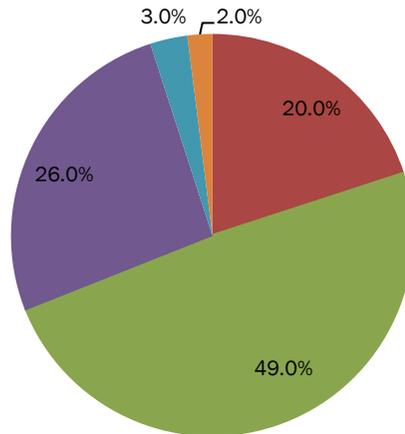
**Target Fund
40**



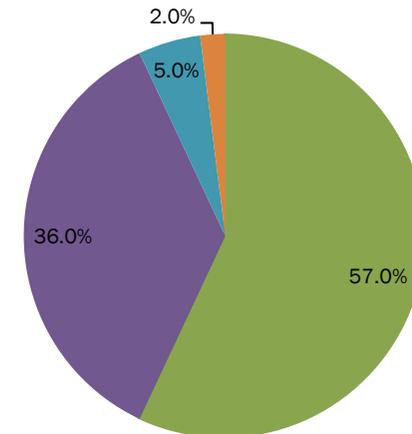
**Target Fund
60**



**Target Fund
80**



**Target Fund
100**



■ Money Market Funds

■ Fixed Income Funds

■ Domestic Equity Funds

■ International Equity Funds

■ Real Estate Funds

IV. Mutual Fund Evaluations

Mutual Fund Evaluations

Ticker

Prior Manager Research Decile

Current Manager Research Decile

Advisor Plan:

Fixed Income Funds	PIMCO Short-Term Fund	PTSHX	4	4
	American Century Short Duration Inflation Protected	APISX	4	4
	BlackRock Inflation-Protected Bond	BPRIX	3	4
	Fidelity Advisor Investment Grade Bond	FGBPX	2	2
	Mainstay Total Return	MTMIX	1	1
	Touchstone High Yield	THIYX	3	3
	Templeton International Bond	FIBZX	2	2
Balanced Funds	T. Rowe Price Balanced Fund	RPBAX	1	1
Domestic Equity Funds	T. Rowe Price Large Cap Growth	TRLGX	3	2
	American Century Equity Growth Fund	AMEIX	4	4
	DFA US Large Cap Value	D: @X	&	&
	T. Rowe Price QM U.S. Small-Cap Growth	TQAIX	3	3
	William Blair Small Cap Value Fund	BVDIX	2	2
Northern Small Cap Value Fund	NOSGX	3	4	
International Equity	Neuberger Berman Int'l Large Cap Fund	NILIX	1	1
	DFA International Small Company	DFISX	2	2
	Lazard Emerging Markets	LZEMX	1	1
Real Estate Funds	Voya Global Real Estate	IGLIX	2	2
Commodity Funds	Credit Suisse Commodity Return Strategy	CRSOX	3	3

Direct Plan:

Fixed Income	PIMCO Short-Term Fund	PTSHX	4	4
	Fidelity Advisor Investment Grade Bond	FGBPX	2	2
Balanced Funds	T. Rowe Price Balanced Fund	RPBAX	1	1

Decile	Rating									
	Corresponding Grade	1	2	3	4	5	6	7	8	9
	A		B		C		D		F	

Manager Research

American Century Investment Management, Inc.

U.S. Disciplined Large Cap Core

Rating Decile	Weight
4th	100%

Summary

American Century’s U.S. Disciplined Large Cap Core strategy is designed to outperform the S&P 500 Index by 150-200 bps annually with an expected tracking error of 1.5-3%. The strategy is managed in a quantitative fashion, using diligent portfolio construction, risk management, and implementation processes. While the factor groups that are being analyzed are not tremendously unique, the team has recently focused on incorporating proprietary adjustments in order to enhance returns and differentiate their alpha model.

Rating Decile	Weight
5th	20%
3rd	50%
7th	50%

I. Organization

Firm
Team

American Century Investment Management, Inc. (“ACIM”) was founded in 1958 in Kansas City, MO, and originally operated under the name Twentieth Century Investors. The original founder, James Stowers, Jr., unfortunately passed away in 1Q14 and his family along with the Stowers Institute of Research (focused on cancer and gene based diseases research), maintains a 46% equity stake and 70% of the voting rights. The firm pays out 40% of its dividends to the Stowers Institute. The next largest owner was CIBC, a leading Canadian financial institution, with 41% economic interest and 10.1% of the voting stock. CIBC originally purchased its stake from JPM in August 2011. However, CIBC sold its stake to Nomura in 4Q15 for \$1B after unsuccessful attempts to acquire more ownership. The transaction closed in May 2016; employees hold the remaining percentages.

The firm’s Disciplined Equity group is led by Vinod Chandrashekar (Chief Investment Officer of Disciplined Equity, Senior Vice President and Portfolio Manager, and Director of Quantitative Research) and Scott Wittman (Senior Vice President). The U.S. Disciplined Large Cap Core product was launched in 1991 and is currently managed by Lead PM Claudia Musat and assisted by co-PM Steve Rossi and the rest of the firm’s Disciplined Equity team, which includes just under ten additional portfolio managers/analysts. Between 2010 and 2012, the team underwent a period of heavy turnover, including the departures of multiple portfolio managers, the retirement of the discipline’s CIO, and the departure of two directors of quantitative research, the most recent being Navneet Arora in October of 2012. Since the hiring of Mr. Chandrashekar in early 2013, the team has shown improved stability and cohesiveness. However, recently, the lead PM, Bill Martin, retired in May of 2016 after 27 years with the firm. As a result, Ms. Musat took over as lead PM and Steve Rossi, previously at RS Investments, was added as a co-PM. Wilshire Manager Research will continue to monitor the team for potential signs of flux.

Rating Decile	Weight
6th	20%

II. Information

Due to the quantitative nature of the strategy, the information gathering process is based on extracting data from various external sources to feed the team’s multiple models. Internal research, including all model enhancement research, accounts for more than 85% of the information gathering process. Ideas for new factors are developed from factor attribution, reviewing academic journals, street research, and attending conferences. Primary sources of data include Compustat, IBES, First Call, Ivy Options, and Standard & Poor’s. Each factor in the model must pass a sensibility test to ensure the model is grounded in sound financial and economic principles.

Company visits and/or management meetings are not a component of the information gathering process; however, the team reviews each trade list to ensure data integrity and to capture company-specific news that is not included in the model, including mergers and acquisitions, recent earnings reports, corporate restructuring, etc.. The team will also conduct more detailed reviews of securities with large changes in alpha scores, large daily price movements, and trades related to benchmark changes. Overall, the information gathering process is sufficient versus other quantitative peers, but the depth of information is not on par with fundamental managers in the space. As a result, the product receives a slightly below average rating.

American Century Investment Management, Inc.

U.S. Disciplined Large Cap Core

Rating Decile	Weight
---------------	--------

III. Forecasting

3rd	20%
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The security selection process is based on the team's alpha scoring model with a qualitative overlay. The starting universe of 3,000+ stocks is screened for market capitalization, liquidity, and data availability. The remaining stocks are analyzed using a multi-factor quantitative model segmented into four general groups: quality (business strength, management quality), valuation (P/CF, P/E), sentiment (long-term, short-term), and growth (relative growth rate, growth sustainability). An excess return projection is produced for every security passing the initial screen. After the model ranks the stocks, the top rated stocks are inserted into an initial optimizer to identify the most attractive buy and sell candidates. An initial trade list is reviewed prior to implementation to check data and to assess if there are any irregularities that the model did not identify.

The team has made several enhancements to its process since the financial crisis. The number of signals in the model has been reduced in order to emphasize only the highest conviction factors. In order to increase consistency and lower volatility, the team has improved the balance of its four factor groups. The team has also incorporated more proprietary signals into the model in order to better differentiate their views from the market and reduce the model's dependence on the classic value-momentum trade. Examples of these proprietary signals include an options-based momentum signal as well as fundamental momentum linkages up and down the supply chain.

Overall, the team has made efforts to differentiate its model in recent years, and many of their enhancements have coincided with a rebound in performance. Over the long term, the team has done a respectable job of adding value through security selection. Forecasting ranks above average.

Rating Decile	Weight
---------------	--------

IV. Portfolio Construction

3rd	20%
-----	-----

The U.S. Disciplined Large Cap Core portfolio, typically consisting of 100-200 securities, strives to achieve 150-200 bps excess return annually versus the S&P 500 benchmark, while maintaining a tracking error of 1.5-3%. Industry weights are restricted to +/- 3% versus the benchmark, while individual securities are limited to a maximum active weight of +1.25%. In general, the portfolio strives to mimic the benchmark's factor exposures.

The team employs the Barra framework for risk analysis and optimization. The optimization component of this strategy is a differentiating factor in that the group integrates multiple optimization phases in constructing their portfolio. After reviewing the trade list generated from an initial optimization, the team re-optimizes the portfolio using their final list of names to ensure that they are building the most efficient portfolio. The optimization process will continue until the team is comfortable with every trade on their final list of candidates. The optimizer's primary purpose is to manage risk in respect to industry, style and security selection. Portfolios are rebalanced every two weeks, at a minimum.

Overall, the group implements a systematic and highly risk-controlled portfolio construction process, which results in an above average rating.

Rating Decile	Weight
---------------	--------

V. Implementation

1st	10%
-----	-----

American Century has an equity trading department of 11 people in Kansas City and New York, though no traders are specifically dedicated to the U.S. Disciplined Large Cap Core product. The team adds significant value through their unique and integrated trading platform. Instead of measuring best execution on a trade-by-trade basis, the group analyzes their trading efficiency from a holistic standpoint. They do this by implementing a proprietary order/management system which connects them to most brokers and alternative trading platforms via a variety of financial information exchange connections. Through their alternative trading systems and ECNs, the group has access to numerous trading options allowing them to execute the best trades available.

In addition to maximizing their trading opportunities, the team also uses a model that is designed to predict transaction costs, giving them an estimate of the round-trip expense of each security in their universe. The model also estimates the market impact of purchasing or selling various amounts of a certain security by analyzing the liquidity and price movements of each security. Lastly, the team's optimizer balances the transaction cost estimates with their expected excess returns to find the optimal portfolio. The firm subscribes to Abel Noser and Plexus for transaction cost analysis. The average annual turnover for the strategy has been approximately 80-120%. Overall, the trading strategy is very sophisticated allowing the team to capture an additional source of alpha. Implementation ranks highly.

American Century Investment Management, Inc.

U.S. Disciplined Large Cap Core

Rating Decile	Weight
3rd	10%

VI. Attribution

The team uses Factset as their primary performance attribution tool. The analysis focuses on the contributions to performance from security, industry, and sector decisions. The team performs their attribution analysis on a monthly basis and seeks to add value to their process by deciphering the sources of excess performance. The team is well informed about the sources of losses and gains, and uses attribution analysis to identify areas for further research, specifically regarding factor ideas or portfolio construction techniques. As a result, the attribution efforts rank above average.

	Rating										
Decile	1	2	3	4	5	6	7	8	9	10	
Corresponding Grade	A		B			C		D		F	

American Century Investment Management, Inc.

U.S. Disciplined Large Cap Core

Firm Information

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Manager Research

American Century Investment Management, Inc.

U.S. Short Duration Inflation Protection Bond

Rating Decile	Weight
4th	100%

Summary

The American Century Short Duration Inflation-Protected Bond strategy seeks to outperform the Bloomberg Barclays Capital US 1-5 Year TIPS Index by 25-75 bps with an expected tracking error of 50-150 bps over a normal market cycle. The team targets an information ratio of ~0.5. At a minimum, the strategy has to maintain 80% invested in inflation-linked securities. The rest of the portfolio can be invested in nominal fixed income securities, which may cause increased volatility relative to a more traditional “pure-play” inflation protection mandate. At the end of 2014, investment guidelines were adjusted to increase non-investment grade allocations to 20% maximum from 10%. Maximum exposure to nominal bonds remains at 20% maximum. Prior to Aug 2011, this strategy was managed to the Bloomberg Barclays US TIPS Index, which is roughly 5 years longer in inflation duration than the Bloomberg Barclays 1-5 Year Index.

The strategy is available as a separate account for qualified institutional investors, as well as, two mutual fund offerings (expense ratio), APOAX (82 bps) and APISX (37 bps).

Rating Decile	Weight
3rd	20%
3rd	50%
3rd	50%

I. Organization

<i>Firm</i>	3rd	20%
<i>Team</i>	3rd	50%

American Century Investment Management, Inc. (“ACIM”) was founded in 1958 in Kansas City, MO, and originally operated under the name Twentieth Century Investors. The original founder, James Stowers, Jr., unfortunately passed away in 1Q14 and his family along with the Stowers Institute of Research (focused on cancer and gene based diseases research), maintains a 46% equity stake and 70% of the voting rights. The firm pays out 40% of its dividends to the Stowers Institute. The next largest owner was CIBC, a leading Canadian financial institution, with 41% economic interest and 10.1% of the voting stock. CIBC originally purchased its stake from JPM in August 2011. However, CIBC sold its stake to Nomura in 4Q15 for \$1B after unsuccessful attempts to acquire more ownership. The transaction closed in May 2016. Employees hold the remaining percentages.

The fixed income team is led by CIO Dave MacEwen and supported by a team of experienced portfolio managers and analysts. The investment professionals are compensated with base salary, plus incentive bonus on trailing 1, 3 and 5Y against its respective benchmark and peer group. Restricted stocks are granted and vest over 3 years. The compensation plan was recently updated to increase the focus on longer term performance and appears adequate for minimizing investment personnel turnover.

Overall, the organization is above average in terms of quality of the investment professionals, stability, and experience. A few of the key organization risks we identified were: 1) organizational risk at the broader level from having Nomura as one of the equity holders; 2) stronger presence in the retail space and DC business, however, the firm is slowly building up its institutional effort; and 3) strategy launch efforts tend to be late relative to peers.

Rating Decile	Weight
3rd	20%

II. Information

The team does not seek unique sources of information. A starting point in the investment process is the team’s use of historical modeling to examine spread relationships over the most recent market cycle. Additionally, the team uses industry valuation databases to help identify changes between particular industries and credits in an effort to understand relative value.

The information gathering process is completely centered around the fair value trading level of sectors and individual securities based on mean reversion back to historical ranges. The team has significant experience that when combined with its information gathering process, helps exploit information inefficiencies across sectors. Risk to the integrity of this process would be turnover of senior members of the investment team as their industry experiences are central to this part of the process.

American Century Investment Management, Inc.

U.S. Short Duration Inflation Protection Bond

	Rating Decile	Weight
III. Forecasting	5th	20%

The Short Duration Inflation-Protected Bond strategy implements an actively managed, multiple sector approach to hedge against U.S. inflation. The strategy attempts to exploit the mean reversion aspect of bond markets by actively managing sector allocation, yield curve and duration positioning. The strategy's main forecasting drivers are its sector specialists and the autonomous sector examination done by each team. Relative value is a key focus and a strong determinant factor at the time of security purchase. Securities for inclusion are assessed on fundamental credit analysis conducted by each respective sector team. Risk budgeting is loosely defined and could cause the strategy to lag its benchmark when losing trades aren't exited at predetermined levels. The forecasting process is not unique compared to its peer group; however, the personnel breadth does provide a clear and repeatable process.

	Rating Decile	Weight
IV. Portfolio Construction	5th	20%

The American Century Short Duration Inflation-Protected Bond strategy seeks to outperform the Bloomberg Barclays Capital US 1-5 Year TIPS Index by 25-75 bps with an expected tracking error of 50-150 bps, over a normal market cycle. Prior to Aug 2011, this strategy was managed to the Bloomberg Barclays US TIPS Index, which is roughly 5 years longer in inflation duration than the Bloomberg Barclays 1-5 Year Index. At least 80% of the fund's assets are invested in inflation-linked debt securities by prospectus. The fund may invest up to 20% of assets in nominal debt securities, including non-dollar and non-investment grade debt. The maximum allocation to non-investment grade debt was increased to 20% at the end of 2014. US Treasury futures and inflation swaps are frequently used in the portfolio to manage inflation and nominal durations, as well as express active yield curve positioning. The strategy limits futures and swaps notional exposures as a percentage of the portfolio's cash market value to 100% and 15%, respectively. As a reminder, the amount notional exposure employed is based on a contribution to duration basis. Finally, single issuer is limited to 5% max, excluding government/agency debentures and pass through securities.

The portfolio duration is maintained within ±20% of its benchmark duration. Active duration management has been sparsely utilized, as the team does not historically view this as a material source of alpha. However, the team is active in yield curve positioning to express its interest rate views. The team's historical attribution indicates excess returns were derived from security selection (50%), sector allocation (25%), and duration/yield curve positioning (25%).

	Rating Decile	Weight
V. Implementation	3rd	10%

As a firm, American Century does not execute trades through a centralized trading desk. Portfolio managers within each respective sector teams conduct their own trading through direct contacts with the Street. Trades are entered using the Bloomberg Portfolio Order Management System. For the Short Duration Inflation-Protected Bond strategy, all transactions are approved and documented prior to execution by a multi-departmental Derivatives Committee comprised of personnel from the investment management, trading, investment accounting and legal departments. Relative to its peer group the firm has adequate resources dedicated to its trading process.

	Rating Decile	Weight
VI. Attribution	2nd	10%

A dedicated risk management team provides oversight and daily monitoring of the firm's strategies. At a macro level, risk management includes both forward-looking analysis to determine current and anticipated risk profiles, as well as, backward-looking analysis to provide feedbacks on its proprietary risk models reliability. These risk models provide tracking error, scenario analysis, and performance attribution. Different portfolio risks are managed and reviewed on a daily, weekly, and monthly basis. A variety of external tools such as Bloomberg and Yield Book, as well as, other internal proprietary systems are also utilized to complement this process. Portfolio duration, yield curve, and sector weighting risk relative to the benchmark are monitored daily by the portfolio managers.

Wilshire was informed the firm signed on with BlackRock to integrate Aladdin's portfolio and risk management systems. Implementation is expected in Jan 2018. Wilshire views these enhancements in their risk management as a positive and has upgraded the rating.

	Rating									
Decile	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B		Proprietary and Confidential		D		F	

American Century Investment Management, Inc.

U.S. Short Duration Inflation Protection Bond

Firm Information

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Manager Research

BlackRock

TIPS

Summary

Rating Decile	Weight
5th	100%

BlackRock offers an actively managed “pure-play” TIPS products designed to outperform the index by 50-75 basis points with a duration band of $\pm 20\%$ of the benchmark. The Inflation Linked team is headed by Akiva Dickstein, with a large supporting cast of analysts. Brian Weinstein resigned in June 2014, but he was primarily focused on separate account core/core plus strategies. Martin Hegarty resigned in March 2018.

BlackRock offers two US TIPS strategies: US TIPS and US TIPS Constrained. The difference is US TIPS Constrained does not use derivatives such as futures, FX forwards, IR swaps, caps, floors, or options. In addition, active currency positions are also not utilized for the US TIPS Constrained strategy, whereas US TIPS strategy can have up to 5-10% active weight. The US TIPS Constrained is a more “pure-play” TIPS strategy given the limited options available. Conversely, US TIPS should be categorized with other TIPS strategies that use spread products to generate excess return because of its use of FX and non-USD sovereigns. Historical absolute return dispersion is roughly ± 20 bps relative to the US TIPS Constrained strategy.

Rating Decile	Weight
6th	30%
4th	50%
7th	50%

I. Organization

<i>Firm</i>	4th	50%
<i>Team</i>	7th	50%

BlackRock (BLK), founded in 1988, is known for combining sophisticated analytical tools with a systematic process to manage fixed income, equity and alternative strategies. In the 1990's, BLK became the fixed income manager for PNC Financial Services. BlackRock went public (NYSE: BLK) in 1999 with PNC as its majority shareholder. In the 2000's, BLK launched BlackRock Solutions, acquired State Street Research and Management, SSR Realty and also acquired fund of funds business from Quellos Group, LLC. In 2008, it launched Financial Markets Advisory business as part of BlackRock Solutions. In 2009, BLK hired 29 investment professionals from R3 Capital Partners and announced the purchase Barclays Global Investors (BGI). BGI's Active Equity group became known as the Scientific Active Equity group, which remains based in San Francisco. Through these M&A spanning 20+ years, BlackRock has grown to become the world's largest asset manager with AUM of over \$5 trillion.

Compensation comprises of a base salary, discretionary bonus, and employee stock purchase plan. For most professionals, compensation reflects investment performance and the success of the business or product area.

BlackRock, Inc. is independent in ownership and governance, with no single majority stockholder and a majority of independent directors. PNC Financial Services Group, Inc. ("PNC") owns roughly 20% of BlackRock and institutional investors, employees and the public own the rest. With regard to voting stock, PNC owns 21.1% and institutional investors, employees and the public own 78.9% of voting shares.

Rick Rieder is the CIO for the Fundamental Fixed Income platform at BlackRock. He joined BlackRock in 2009 and was named CIO in 2010. Mr. Rieder is also the lead PM for BlackRock's Total Return and Unconstrained strategies.

The Inflation Linked strategy is team managed and headed by Akiva Dickstein, with support from a team of sector heads and a plethora of analysts. Martin Hegarty, formerly the lead PM for the strategy, resigned in March 2018. At the end of 2016, Chris Allen joined the team as a lead portfolio manager, and worked closely with Mr. Hegarty on the day-to-day management of the portfolios. Going forward, Messrs. Dickstein and Allen will be responsible for the day-to-day management of the portfolios.

Mr. Hegarty was previously a TIPS market maker and risk taker at Merrill Lynch, and was brought in as a co-PM after the departure of Adam Bowman, a PM of the Global Inflation Linked Team, in March 2010. The other co-PM, Brian Weinstein, resigned in June 2014. However, we believe Mr. Weinstein was a co-PM by name only as his primary focus was core/core plus separate accounts. In addition, performance has not been strong since Mr. Weinstein's departure. This may be a function of market technicals, and underperformance could be spuriously correlated with Mr. Weinstein's departure. Nonetheless, BlackRock has duly noted our observations.

Mr. Hegarty's departure is a significant loss to the team, since he has been a constant for the TIPS strategies since he began working at Blackrock in 2010. Further, Mr. Dickstein is the Head of Customized Multi-Sector Portfolios within BlackRock's Global Fixed Income group, a member of the Global Fixed Income executive team, and is a portfolio manager of BlackRock's Core Bond Fund. Given Mr. Dickstein's current workload, he will likely not be able to provide the same level of oversight on the ILB portfolios as did Mr. Hegarty, so the team score has been downgraded.

		Rating									
Decile		1	2	3	4	5	6	7	8	9	10
Corresponding Grade		A		B			Proprietary and Confidential		D		F

Rating Decile	Weight
3rd	17.5%

II. Information

Eighty percent of BlackRock’s fixed income research, encompassing both quantitative and credit analysis, is performed in-house. Quantitative evaluations are performed on BlackRock Solutions, a proprietary system that is integrated into the portfolio management process. The system provides scenario and horizon analyses, micro-analysis of derivative mortgage securities, OAS and duration/convexity analyses. Securities are subjected to stress-test scenarios to identify effects on duration and cash flow due to interest rate shifts. Credit analysis is performed by a team of analysts who work with portfolio managers in offices around the globe.

BlackRock has demonstrated expertise in structured securities. The models used in analyzing these securities are integrated into an extensive infrastructure to support bond valuation across various structured products.

BlackRock measures, monitors, and controls yield curve exposure through the use of multiple duration and convexity measurements. Key rate duration analysis allows portfolio managers to measure the sensitivity of a specific security or an entire portfolio to non-uniform shifts across parts of the yield curve. This permits the team to augment portfolio duration and key rate duration methodologies with current estimates of volatility and yield curve movement correlations. In addition to its quantitative interest rate and yield curve analysis, the firm is able to pull from its global research team as part of its fundamental economic analysis and incorporates interest rate, yield curve and currency research. Dedicated sector teams also provide additional research.

Security-specific relative value is identified by option-adjusted-spread, option-adjusted-duration, and swap spread duration analyses. These analyses are performed on current holdings as well as marketplace alternatives.

Overall, the team can access a wide array of data covering various markets. That said, the process has changed somewhat in the last couple of years. The team began formally documenting individual trades supported by investment thesis, market levels, and P&L. Trades are coded as either structural or technical themes. Further, the portfolio has relied on more technical mean-reversion trading to generate alpha. Historical performance since this change (mid-2015) has not yielded strong results.

Rating Decile	Weight
5th	17.5%

III. Forecasting

US TIPS and global inflation-linked bonds (GILB) strategies include duration and yield curve positioning, break-even spread between US TIPS/global inflation-linked bonds and nominal securities, technical supply/demand anomalies related primarily to the auction cycle, seasonal factors related to the CPI, currency exposure, and sector (country) allocation.

The team focuses on relative value opportunities between ILBs and their nominal counterparts as well as probability-weighted arbitrage for trading global real curve and breakeven inflation, real rate strategies, and idiosyncratic factors for issue-specific relative value. BlackRock’s probability weighted arbitrage strategies involve modeling these relationships and identifying times when the valuations do not match the most likely mathematical outcomes. These usually involve real yield curve trades and breakeven curve trades where the risk/reward is heavily skewed in favor of the desired outcome.

To evaluate ILBs across the curve, the team maintains a proprietary inflation-forecasting model that incorporates the current inflation run-rate and adjusts it for both energy price volatility as well as broader macro themes likely to influence forward inflation expectations and actual prints (e.g., home prices). In addition, the carry and roll metrics of ILBs are regularly refreshed to serve as a baseline from which the team may assess opportunities.

The team works closely with BLK’s Risk & Quantitative Analysis Group (RQA) and relies on its many models to find relative value. The process appears repeatable and has helped the team produce consistent and predictable performance in a normal business cycle. This is expected to deliver performance alpha through inflation-related and liquid real rate-based strategies. Unexpected performance volatility from credit risk or illiquid strategies should be minimal. Resources for this strategy are abundant from both human and technology capital perspectives. However, relative performance has been lacking for the past couple of years and Wilshire believes some of this may be attributed to a change in its process.

Rating Decile	Weight
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IV. Portfolio Construction

5th	17.5%
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BlackRock applies a two-step decision-making process in constructing fixed income portfolios. Decisions regarding sector rotation and duration/yield curve are determined by the Portfolio Team. Execution and security selection are made by the Investment Teams within their respective sectors. Investment Teams are responsible for selecting securities that offer the greatest relative value.

A large component of trading activity is from managing the portfolio's duration and yield curve exposures relative to the benchmark. In addition, individual security trades are executed on duration neutral and yield curve neutral basis. Out-of-benchmark exposures are permitted to be as high as 20% of the portfolio. The level of tracking error normally ranges between 35 and 65 basis points.

BlackRock evaluates trade ideas by reviewing anticipated returns versus actual performance. Collectively, ex-ante tracking error and attribution are used to validate the risk models and the team's ability to manage risk versus excess return. In early 2010, the team eliminated exposure to credit and MBS in their TIPS strategy, while holding a curve flattening and a shorter duration stance.

Though Wilshire expressed concerns regarding excess return consistency and persistency, we believe the team is still focused on risk budgeting. Many of their trades have not generated favorable results in the past couple of years, but their risk management focus has buffered additional losses.

One of the fund's stated primary alpha sources is duration positioning, and the duration of the fund can range $\pm 20\%$ from the benchmark. Wilshire would prefer that the duration positioning stay within a smaller band relative to the benchmark in a TIPS fund. In addition, given the uncertainty regarding how the portfolio will be run under Mr. Dickstein's leadership, the Portfolio Construction rating has been reduced.

Rating Decile	Weight
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V. Implementation

4th	8.8%
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BlackRock has an advanced trading platform, and demonstrated competitive advantage in this area. It used to be that investment managers, not dedicated traders, aggregated all trades into blocks to achieve optimal executions. With the newly integrated structure after the BGI acquisition, trading teams were created.

BlackRock has developed Aladdin, a proprietary, centralized, and integrated investment system. Aladdin provides a platform with straight-through processing from analytics, to trade entry, compliance, operations, administration, and finally reporting. This comprehensive system used throughout the organization, thus eliminating redundant data input, enhancing integrity, reducing operational and compliance risks, and providing consistency. Within Aladdin is a comprehensive suite of risk management reports (the Green Package®). These reports are produced daily, many on real-time basis. All reports are available online either through the BlackRock intranet site or dedicated client websites. Reports can be easily customized, enabling each BlackRock professional to focus on information most pertinent to the individual. Trading resources and execution rank above average relative to peers.

Rating Decile	Weight
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VI. Attribution

2nd	8.8%
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BlackRock's proprietary attribution model, created in 1998, is used internally to assess the performance of portfolios on a monthly basis. The team uses it to fine tune the investment process and to better understand the sources of relative performance. After the Merrill Lynch merger, BlackRock made adjustments and improved the process. BlackRock's Aladdin system is one of the better systems on the market for third-party managers and asset owners.

The Attribution score was previously rerated to coincide with the discovery of a newly "formalized" trade report monitoring (which was implemented in mid-2015). The score was reduced for not having such monitoring in the first place. However, Wilshire believes this to be a good addition to its process for feedback on what trades did and did not work.

		Rating									
Decile		1	2	3	4	5	6	7	8	9	10
Corresponding Grade		A		B		Proprietary and Confidential		D		F	

BlackRock

TIPS

Firm Information

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Manager Research

William Blair

Small Cap Value

Summary

Rating Decile	Weight
2nd	100%

William Blair offers a fundamentally bottom-up driven, small cap value strategy, which is relatively benchmark neutral in terms of sector and risk exposures. The portfolio management team has experienced notable stability since Mark Leslie (2005) and Chad Kilmer (2006) joined Dave Mitchell to manage the strategy. The investment process combines rigorous quantitative screening techniques with in depth fundamental research and thorough financial modeling of each respective investment. The investment philosophy is relative value in orientation, seeking companies with attractive valuations, improving business fundamentals, and shareholder oriented management teams. The team places a significant emphasis on free cash flow return on invested capital as a primary valuation metric within this discipline. The resulting portfolio is diversified by type of company with approximately two-thirds of the portfolio invested in quality companies at a discounted valuation with the balance invested in corporate transformation stories. The strategy tends to hold 80-100 holdings. The performance of the strategy has been very consistent under the current portfolio management team with considerable value added from strong stock selection. While the strategy will tend to exhibit stronger downside protection due to its higher quality (ROIC) orientation, the team has historically performed well across a wide variety of market environments. Wilshire finds the strategy to be an attractive option for clients seeking active small cap exposure in the quality value space.

Separate account vehicles are currently closed to new investors. However, the mutual fund remains open to new investors.

William Blair

Small Cap Value

Rating Decile	Weight
1st	20%
1st	50%
1st	50%

I. Organization

<i>Firm</i>	1st	20%
<i>Team</i>	1st	50%

William Blair & Company, LLC was founded in 1935 as a Chicago-based full service financial firm offering asset management, investment banking, and equity research amongst other functions. Asset management accounts for the majority of revenues and the firm offers a competitive compensation plan with 100% of its equity being broadly distributed amongst over 170 active principals with a profit sharing program available to all employees. The firm is registered with the SEC as both an investment manager and broker dealer, and its broker dealer activities are regulated by FINRA. Assets under management have growth steadily over the years, primarily on the success of the firm's offerings in the international and emerging markets equity space. William Blair does offer alternatives and fixed income products, but equity products dominate the firm's overall product mix.

All professionals at William Blair have the opportunity to become a partner and there are partner-level career paths for portfolio managers and research analysts. The investment professionals who are partners of the firm have compensation consisting of a base salary, a share of the firm's profits, and a discretionary bonus. Each partner's ownership stake and bonus (if any) can vary over time, and is determined by the individual's sustained contribution to the firm's revenue, profitability, and long-term investment performance. We maintain a high opinion of the firm and its partnership culture.

In early 2016, the firm received a Wells Notice from the SEC after opening a non-public investigation with respect to the administrative fees paid by a subset of the William Blair Mutual Funds. In early 2017, the firm paid a \$4.5 million settlement to the SEC for minor payment errors (that were reimbursed to the Funds with interest) and administrative fees disclosure issues associated with the non-public investigation.

The strategy is team-managed by three seasoned PMs: Chad Kilmer, Mark Leslie, and Dave Mitchell. They are supported by two associate PMs, Jim Karlis and Steve Livingston, and Research Analyst, Brian Early. The team also had a Research Associate, Annelise Docel. However, she transferred to another team within the organization. Brian Early previously served as the team's Research Associate but was promoted to Analyst during 2015. Among the portfolio managers, Dave Mitchell joined the firm as a small cap value PM in 1996. During his tenure, the PM team experienced the departure of Senior PM Glen Kleczka, who left to found Inview Capital in 2003, and the retirement of Cappy Price in 2005. The firm added Mark Leslie as a PM in July of 2005. Mr. Leslie was the lead PM for the First American Small Cap Value Fund at US Bancorp Asset Management where he also spent eight years serving as a mid-cap value co-PM and equity analyst. The third PM, Chad Kilmer, was added in 2006. Mr. Kilmer also joined the firm from US Bancorp where he managed the small cap value fund following Mr. Leslie's departure.

Overall, the firm has maintained a strong commitment to the Small/Mid Value investment team within an organization that is predominately known for its growth equity strategies. In addition, all five portfolio managers have been named partners, and the team has launched a Smid Value strategy in recent years which further demonstrate the firm's commitment to the value suite of products managed by this team. The current investment team has been very stable and has delivered consistent performance since their arrival. The organization ranks highly given the boutique employee-owned structure, and the stability and quality of the investment team.

Rating Decile	Weight
1st	20%

II. Information

The investment philosophy is fundamental bottom-up in orientation but incorporates a quantitative screen to narrow the universe and assist in idea generation. The initial universe of 3,000+ stocks is primarily comprised of US securities within the market cap range of the Russell 2000 Value Index. The team employs a proprietary 25-factor, sector neutral model to screen for stocks with low valuations and high fundamental scores. Each member of the team maintains sector-specific research responsibilities. The fundamental research process consists of two stages: the first step focuses on an initial review of financial characteristics, general attributes, company filings, research reports, conference call transcripts, etc.; while the second phase involves comprehensive due diligence with financial/competitive analysis, competitor/supplier/customer discussions, as well as management meetings, which function as a critical component in the investment decision making process. The investment team builds comprehensive, proprietary investment models for each company in an effort to understand the historic drivers of a company's returns, cash flow generation, and valuation dynamics in granular detail. Overall, the team's information gathering efforts are robust, both in terms of financial statement analysis as well as the vetting of company management teams.

Decile	Rating									
	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B		Proprietary and Confidential		D		F	

William Blair

Small Cap Value

	Rating Decile	Weight
III. Forecasting	1st	20%

The forecasting process is focused on identifying companies that possess strong cash flow generation, improving/sustainable ROIC, and shareholder-value focused managements. For this, the team first screens the universe on value and fundamental attributes employing a 25-factor, sector neutral model where 6-8 key factors are utilized per sector. The model is fairly static in terms of changes, and aims at identifying two things: low valuations and strong fundamentals. Some valuation metrics assessed include a company's ability to generate FCF, peer and historical comparisons, industry transaction comparisons, a forecast of financial results, downside risk assessment, and free cash flow ROIC analysis. Some characteristics assessed to identify strong fundamentals include superior cash flow generation, improving/sustainable ROIC, shareholder-value focused management, strict corporate governance, and a defensible competitive position. The team also highly values management meetings to gain a better sense of the quality of management and their vision for the company. Target prices are dynamic, employing 1- to 2-year horizons that are based on proprietary cash flow forecasts, historical valuations, and industry transactions when available. Stocks trading at a significant discount to the target price (approximately 30%) with attractive total return potential become buy candidates.

According to Wilshire attribution, stock selection has been the primary alpha driver for the strategy over long-term periods. The team has been successful at generating meaningful and consistent long term rolling 3- and 5-year alphas since the current portfolio management team has been in place. While the strategy has historically performed well across a wide variety of market environments, it tends to perform best on the downside and could struggle in lower quality rallies and in strong up markets.

	Rating Decile	Weight
IV. Portfolio Construction	3rd	20%

The portfolio construction process is primarily fundamental bottom-up in orientation with adequate risk controls. The portfolios are diversified with 80-100 holdings with a typical allocation of two-thirds to quality companies at a discounted valuation with the balance invested in corporate transformation stories. Holdings in the portfolio are constantly reviewed to ensure that their expected return rankings, adjusted for conviction level and risk control, are maintained within the portfolio. The buy and sell decisions are team driven where the typical position is 0.75-1.75% and the top ten positions tend to be less than 20%. For risk control, the team focuses on both stock specific and sector specific metrics utilizing BARRA for analysis. The portfolio is relatively sector neutral where sector weights are constrained to 75%-125% of benchmark sector weight and the portfolio is fully invested at all times. Individual position sizes are capped at 3% of the portfolio. Securities will be sold if the investment thesis is no longer valid, or if there is a notable change in the company's valuation/fundamentals. A stock whose market cap exceeds 2X the largest stock in the benchmark will also be liquidated. In general, the strategy should be expected to have modestly higher weighted average market cap exposure relative to the benchmark given the team's conservative approach to liquidity and quality. Overall, the portfolio construction process is well articulated with an emphasis on both stock specific, portfolio level, and benchmark related risks. As a result, the portfolio construction process ranks above average.

William Blair

Small Cap Value

Rating Decile	Weight
3rd	10%

V. Implementation

The firm has a centralized trading desk which consists of five traders dedicated to domestic equity trading. The team averages over 20 years of industry experience. Michael Thompson has served as Head of Domestic Equity Trading since he joined the firm in 1997. William Blair utilizes the LongView order management system, and the implementation process involves identifying natural liquidity where available to mitigate any market impact from transactions. The traders make use of “third market” and electronic trading systems such as Instinet and LiquidNet where applicable with ECN usage typically accounting for a significant portion of the trading volume. The firm's trading data is reviewed by the Brokerage Allocation Committee to ensure that every effort is being made to obtain best execution. In addition, the Linedata Compliance system is used for monitoring client and regulatory restrictions.

Annual turnover is expected to fall around the 50-100% range. Soft dollars are utilized by the firm including Commission Sharing Agreements (CSAs) which are commissions paid to proprietary and independent research providers. The firm boasts a strong commitment to information technology and will continue to make contributions in this area to keep abreast with the latest technology. In addition, capacity is being tightly constrained in the strategy with a portion reserved for the team's SMID Value product. The firm has closed off capacity for new separate accounts as assets have reached the \$1.5B range. The mutual fund remains open with an expectation of remaining cash flow neutral.

Rating Decile	Weight
3rd	10%

VI. Attribution

William Blair analyzes various perspectives with respect to attribution including sector-based and market cap-based attribution analysis, primarily using FactSet. In addition, the firm performs internal quantitative factor-based performance attribution analysis and Barra multi-factor performance attribution analysis to understand where the team is taking bets and to understand the results of the bets taken. While the firm's knowledge of their risk factors and performance attribution is commendable, the feedback loop of this information back into the investment process appears to be fairly minimal.

Decile	Rating									
	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B		C		D		F	

William Blair

Small Cap Value

Firm Information

William Blair

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Manager Research

Credit Suisse Asset Management

Enhanced Commodities Index - BCOM Composite (Swap)

Rating Decile	Weight
3rd	100%

Summary

The Credit Suisse Total Commodity Return strategy serves as a suitable option for investors seeking diversified, enhanced-like index exposure to the commodities space. The commodity team, led by seasoned investors Nelson Louie and Christopher Burton, implements a combination of mostly passive commodities exposure, gained through derivative securities, and a high quality short duration fixed income overlay that seeks to enhance alpha by a fractional amount. The portfolio is tightly risk-controlled with tracking error constrained to approximately 1-1.5%. The strategy emphasizes quantitative research and qualitative inputs to add value derived from the roll component of a commodity's total return.

In spite of the strong leadership at the helm of this product, the broader firm has experienced turnover and organizational change in recent years. In addition, new analysts have been added since 2009, leading to some concerns regarding the ongoing evolution and stability of this product. We acknowledge that stability has been achieved since 2011 but continue to express some caution on this commodities platform given the parent's company's grip on the asset management division.

Rating Decile	Weight
3rd	20%
4th	50%
2nd	50%

I. Organization

Firm

Team

Credit Suisse is wholly-owned by Credit Suisse Group AG, a global financial services company headquartered in Zurich. Within the organization, there are three operating divisions - Asset Management, Private Banking, and Investment Banking. On July 1, 2009, Credit Suisse announced that it had successfully completed the sale of part of its Global Investors traditional asset management business to Aberdeen Asset Management. In addition to a base salary, employees are eligible for an annual discretionary Incentive Performance Bonus (IPB) based on firm and department profitability, individual performance/contribution, and the strategic needs of the firm. The IPB is awarded in the form of cash or cash and shares and vests over a multi-year period. A portion of the IPB cash-based award will earn a return equal to Credit Suisse's return on equity in profitable environments, but will have a mechanism which will adjust any unvested awards downward if a business area is unprofitable.

The Total Commodity Return product is led by Nelson Louie, Chris Burton and Timothy Boss and supported by six analysts dedicated to quantitative research and risk management. Bob Jain was recently appointed to Head of Alternative Investments to manage the business activities of the product. Nelson Louie and Chris Burton are responsible for the monthly rolling of futures contracts and identifying other structural inefficiencies in the commodities marketplace while Timothy Boss is the fixed income portfolio manager on this strategy. Nelson Louie rejoined the firm in 2010 after having left his post in 2007. Andrew Karsh, a former portfolio manager on the strategy, departed in 2010, having been with the team since 2007.

Credit Suisse, as an organization, has undergone a considerable turnover and restructuring of its asset management business in recent years. The team's leadership is seasoned, but several of the team's analysts have only been with the firm since 2009 with a couple joining in 2011. We acknowledge that stability has been achieved since 2009 but continue to express some caution on the commodities platform given the parent's company's grip on the asset management division.

Credit Suisse Asset Management

Enhanced Commodities Index - BCOM Composite (Swap)

	Rating Decile	Weight
II. Information	1st	20%

The Credit Suisse Total Commodity Return strategy involves pure replication of the index beta with a fixed income overlay. In addition, the team attempts to take advantage of some structural inefficiencies in the commodities market and thus has a research effort dedicating to identifying these characteristics. The manager seeks to identify sources of value add by emphasizing quantitative research on the roll yield component of the investment process. Weekly meetings of Portfolio Managers, Analysts and Traders are held to discuss individual economic and strategic viewpoints leading to the adoption of the group’s consensus investment strategy. The team also leverages the firm’s strategic relationship with Glencore, which provides physical market information through its commodities desk.

The team does not demonstrate an ability to perform the type of sophisticated in depth fixed income research that is found at many peer firms. However, the collateral portion of the commodities portfolio is intended to generate only a fraction of the overall portfolio’s alpha and exhibits a high quality orientation consisting primarily of short duration Treasury and Agency fixed income securities. Overall, the team is focused on discovering unique sources of value add through its quantitative work and qualitative inputs to the investment process.

	Rating Decile	Weight
III. Forecasting	3rd	20%

The product’s underlying commodities exposure is gained through single-commodity futures, index futures, total return swaps or commodity-linked structured notes. Futures are used predominantly as the team feels that significant value can be added through the monthly futures contract roll. In addition, the commodities team looks at other structural areas such as seasonal analysis to add additional alpha to the strategy without making explicit bets on one commodity versus another. This strategy is managed against the DJ-UBS Commodity Index, though the firm has managed the strategy against the GSCI for a longer time period. For the enhanced cash fixed income process, the team uses a combination of top-down and bottom-up inputs. Using macroeconomic conditions and market-related technical factors as a backdrop, the team determines duration decisions that are then applied to the total portfolio. Yield curve exposures are then distributed in an optimized fashion. Sector allocation is determined based on relative value assessment across the major sectors. The team forecasts expected excess returns from each sector over the ensuing six months based on the general market environment. Sector specialists then execute the purchase or sale of individual issues that fit the macro investment themes and also provide potentially high risk-adjusted returns versus the benchmark. The team focuses its fixed income effort on selecting short duration Treasuries and Agency debt.

Overall, the forecasting process is logical and slightly differentiated. The product has historically added incremental value from both, its commodities management efforts and its short duration fixed income overlay, and the team has undertaken significant research to take advantage of structural anomalies in the futures market.

	Rating Decile	Weight
IV. Portfolio Construction	1st	20%

Due to the index replication of the commodities index using futures and the very small bets taken by the short duration fixed income team, the portfolio construction score ranks well because the tracking error is managed effectively and relatively low given the fund’s objective. The firm has limited disclosure of some of the key risk management processes used in the fixed income management portion of the portfolio, mitigating the firm’s portfolio construction score. The team does use an optimization process to ensure the portfolio is efficiently positioned versus the benchmark, and they also utilize proprietary risk models to track principal at risk and to also assess forward-looking tracking error. Overall, the portfolio construction effort remains solid due to disciplined replication of the commodities portion of the strategy and adherence to targeted tracking error constraint.

Credit Suisse Asset Management

Enhanced Commodities Index - BCOM Composite (Swap)

Rating Decile	Weight
3rd	10%

V. Implementation

Individual sector specialists at Credit Suisse execute trades based on opportunities they are observing in the marketplace. Five members of the team are directly involved in trading positions for the portfolio though ultimate decision-making resides with Louis Nelson and Chris Burton. This hands-on approach adds value relative to more silo-oriented functional approaches. Trading is segmented between commodities and collateral portfolios. Electronic futures trades are typically placed through the RediPlus trading system. Charles River is also leveraged as an order management system for their trading execution. Most of the trades are automated though in some cases manual engagement is necessary. Advent Geneva is utilized as the team's portfolio accounting system and for performance measurement purposes. Trading costs are not explicitly measured though the team will endeavor to achieve best execution as there is ample transparency in trading the derivative contracts for the strategy. The team estimates capacity to be near \$20 bn for the commodities platform.

Rating Decile	Weight
3rd	10%

VI. Attribution

The team reviews performance attribution on a daily basis to assess the various sources of portfolio performance relative to the benchmark and monitor the portfolio's risk exposures. The team relies on CSAM's Risk Management team to provide risk appraisals and inform the process. Attribution analysis is mainly utilized to track the success of portfolio decision-making and provide performance reporting to clients.

Decile	Rating									
	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B		C		D		F	

Credit Suisse Asset Management

Enhanced Commodities Index - BCOM Composite (Swap)

Firm Information

Credit Suisse Asset Management

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Manager Research

Dimensional Fund Advisors

World ex US Small Cap Strategy

Rating Decile	Weight
2nd	100%

Summary

Dimensional Fund Advisors offers an attractive World ex-US Small Cap strategy for investors seeking to gain an index-like exposure to the developed international small cap core equity space. The investment team quantitatively engineers its portfolios using sound fundamental rationales that are based on academic research. The investment process is team-driven and has been very stable since its inception. Any adjustments to the security selection model are carefully researched and thoroughly vetted by the firm's investment committee prior to implementation. This systematic approach also prevents impulsive decision-making as it relates changes in the investment process. Measured over a full market cycle, the strategy has been successful in adding value over the MSCI World ex-US Small Cap Index; however, performance is typically in-line with the index over shorter time periods. The result of the process is a very diversified, low turnover portfolio that exhibits a slight value tilt and a small cap bias. The firm continues to demonstrate an impressive ability to add value through its patient trading process, and the organization is well-respected as a privately held company of many talented investors. The strategy is a very low cost investment option for clients to gain exposure to the international small cap equity markets.

Rating Decile	Weight
1st	20%
1st	50%
1st	50%

I. Organization

<i>Firm</i>	1st	20%
<i>Team</i>	1st	50%

Founded in 1981, Dimensional Fund Advisors, Inc. (DFA) is a privately held company primarily owned by employees and directors. The firm is managed on a day-to-day basis by Co-CEOs Dave Butler and Gerard O'Reilly, both of whom were recently appointed to the Co-CEO position. Mr. Butler took over the role from David Booth in February 2017, while Mr. O'Reilly replaced Eduardo Repetto after his unexpected departure in September 2017. Mr. O'Reilly, who was also Co-CIO with Mr. Repetto, will continue operating as the firm's sole CIO and Mr. Booth, a co-founder of the firm, remains at DFA as Executive Chairman.

The firm moved its headquarters from Santa Monica, CA to Austin, TX in January 2009 and has investment operations in Austin, Charlotte, London, Santa Monica, Singapore, Sydney, and Tokyo. As of July 2017, the firm had roughly \$490 billion in assets under management, including significant portions in domestic equity, international equity, emerging markets equity, and domestic fixed income. Compensation is tied to the financial success of the firm and performance, and it includes a base salary, semiannual bonus, and participation in the firm's long-term incentive plan (LTIP) that allows qualified employees the option of purchasing equity after a three year vesting period of phantom equity units.

The World ex-US Small Cap strategy is managed by the Investment Committee, the International Portfolio Managers, and the Investment Policy Committee that meets on a quarterly basis. The Investment Committee has 10 members comprised of senior management and the senior portfolio manager of the firm's various investment strategies. Arun Keswani, who is based in the firm's Austin office, is the portfolio manager primarily responsible for this strategy from a reporting standpoint. Despite this responsibility, it is more appropriate to reference the entire portfolio management team as responsible for the strategy as their role is to provide for the daily oversight of all portfolios. This team consists of over 30 PMs and is led by Joe Chi and Jed Fogdall who serve as Co-Heads of Portfolio Management. Both have been with DFA for over 10 years.

Historically, the firm has had very little employee turnover. However, it's worth noting that Henry Gray, Head of Equity Trading and member of the Investment Committee, departed the firm in March 2017 to pursue a career in teaching. Mr. Gray had been with the firm since 1995, and his position was quickly filled by Ryan Wiley, previously Head of Americas Trading, and John Romiza, previously Head of International Trading, as co-Heads of Global Equity Trading. In these rare instances of departures, the team-driven investment approach and the quantitative investment process protects the portfolio from adverse outcomes as the portfolio is not dependent on a single individual. Overall, the organization rates highly due to independence, the quality of the investment professionals, and the relative stability of the senior professionals.

Dimensional Fund Advisors

World ex US Small Cap Strategy

Rating Decile	Weight
3rd	20%

II. Information

Information gathering on securities covers over 15,000 international stocks, and the firm analyzes data from a variety of sources including, but not limited to IDC, Bloomberg, Instinet Analytics, Compustat, OneSource, and Bridge Information systems. Specifically, the firm analyzes market capitalization, book-to-market value, and a number of company-, price discovery-, and liquidity-specific filters. In addition, qualitative filters are employed to screen out companies that are government held or have a tightly held ownership structure, companies in extreme financial distress, are REITs or highly regulated utilities, or have recently had an IPO. Information is gathered through relationships with local brokers, electronic data sources, country visits, and meetings with heads of the local exchanges. The investment committee reviews information gathered during country visits to assess country selection criteria such as quality of the legal system, treatment of foreign ownership, financial statement accounting rules, and the settlement system. These trips are used for country allocation decisions, including identifying countries that will be added to or removed from the fund's investable universe.

Ongoing information gathering is also performed around the dimensions of expected returns (factors) targeted in the process. Specifically, these factors are equity premium, market cap, value, and profitability. This research is performed both internally by researchers and externally by contracted academics, with the overall goal of finding dimensions that are sensible, persistent, present in all markets, robust in all markets (present in all securities), and cost-effective to capture.

While DFA may not have superior security specific information like bottom-up managers, they do perform significant research on the factors behind the investment thesis. New factors for investment have an extremely high hurdle to overcome before being implemented, with only the profitability dimension being introduced as a new factor in recent years. For these reasons, the strategy rates above-average in information gathering.

Rating Decile	Weight
4th	20%

III. Forecasting

The World ex-US Small Cap strategy employs a clear and disciplined forecasting approach. The process begins with the size premium by targeting small companies in the 22 developed market-only countries approved by the firm. Size is defined as stocks in the lowest 12.5% of market cap by country, with at least a \$50 million minimum capitalization to avoid pure micro caps. The next step is to target the value premium by ranking stocks in each country by relative based on price-to-book ratio. Using these rankings, the profitability factor excludes stocks with the lowest profitability that are trading at the highest relative prices. Profitability is defined as the operating income before depreciation and amortization, minus interest expense, scaled by book value (EBTDA/BV). Throughout the process, exclusion rules prevent investments in REITs, investment companies, and highly regulated utilities. The fund will also not invest in most recent IPOs, merger or acquisition targets, and companies in distress or bankruptcy. Trading is halted in these securities as the team researches the situation and makes an investment decision.

The investment process is constantly reviewed for enhancements or new dimensions of expected returns to target. In 2010, for example, the firm introduced a momentum factor. Looking at midterm trends (from 1-2 months to 6-12 months) DFA research found that stocks with a large positive risk-adjusted return would continue to have positive returns in the next period. This factor was then implemented when making buy and sell decisions, but conversely, the firm is also willing to discontinue using a factor when they believe it will no longer lead to long-term excess returns.

While the process is designed to target the firm's dimensions of expected returns and not mimic a benchmark, the process results in a very diversified portfolio with a performance pattern very similar to that of the MSCI World ex USA Small Cap Index over short timeframes. Over the long-term, the process has been successful at marginally adding value, and given the disciplined nature of the approach, is expected to continue to add value while stocks with the factors targeted for investment - size, value, and profitability - provide alpha. For these reasons, the strategy rates slightly above-average in forecasting for its consistency, but not as high as peers who have the ability to add more alpha.

Dimensional Fund Advisors

World ex US Small Cap Strategy

Rating Decile	Weight
3rd	20%

IV. Portfolio Construction

The World ex-US Small Cap strategy typically holds between 4,000 and 5,000 securities. While most commonly benchmarked to the MSCI World ex-US Small Cap Index, the strategy is not managed to any specific benchmark and does not target a specific tracking error. However, historical tracking error has been low and has ranged between 1-3% per year. The strategy's country allocations are driven by the size of the lowest 12.5% target weight set on the market cap (free-float adjusted) of each country. Individual security weights are limited to 5% of the portfolio at the time of purchase and sector weights are a byproduct of security selection, subject to a +/-10% relative weight to the benchmark. By rule, the strategy does not include REITs in its investible universe so the portfolio will always be underweight this sector relative to the benchmark. The strategy will be at least 99% invested at all times, keeping cash to a minimum.

In terms of risk management, the strategy excludes some of the smaller, less-liquid countries in the benchmark, as well as those that do not meet the investment committee's criteria. When building positions in countries that have increased risks or that DFA previously deemed un-investable, the fund will invest in ADRs, GDRs, and foreign shares, but not local market shares. This provides access to the market with a reduced exposure to risks specific to those countries. On the other hand, fundamental risks outside of the specifically targeted dimensions of expected return, do not appear to play an active role in portfolio construction. While this risk is mitigated by constructing a highly diversified portfolio, many fundamental factor exposures are not considered when adding to or removing names from the portfolio.

Overall, DFA's portfolio construction efforts are a manifestation of the investment process. Subjective decisions such as individual positioning and weighting are removed from the process and instead are a summation of all of the securities targeted for investment. As a result, portfolio construction rates above-average relative to peers for its ability to produce a portfolio that consistently exhibits the process employed.

Rating Decile	Weight
1st	10%

V. Implementation

The trading platform was developed in-house and is an integral part of the firm's investment process. The firm's proprietary trading system was designed specifically for its investment strategies and all trades are entered through an integrated, highly customized Order Management System based on the Charles River Investment Management System. Execution Management Systems is used for implementation and almost 100% of trades are executed via direct market access by a desk located in the region of the security's domicile. To do so, DFA has 24-hour trading capabilities through its global offices and maintains a cross-training program so that traders are able to operate in markets outside of their primary coverage when needed. This helps provide more seamless coverage in the situations ranging from heavy trading volume to contingency plans for disaster recovery. A virtual desk system has been put in place that allows trade instructions to be placed either with a specific person or to the entire desk where it can be assigned based on capacity. Team members can also use this system to remotely access their workstation.

Trade instructions and execution parameters are sent to the traders by the portfolio managers. These trades arrive daily as a list of potential securities to buy/sell based on their dimensions of expected return or that meet specific account objectives necessary (i.e. rebalances, cash build up for redemption, etc.). Traders are then able to work through this list to add to/sell from the portfolio those securities where they can provide the best execution for clients. Trading costs are extremely important to the firm, and through the traders' ability to "sit on an order" until given a suitable price, third party analysis has shown that DFA has been able to add considerable value for clients from trading and best execution practices. In recent years, as a result of the firm's research, the firm implemented a momentum screen that delays a purchase (sell) of a stock if it has experienced negative (positive) price momentum over the recent months. Turnover in the portfolio has historically been less than 20% and soft dollar relationships are not used at the firm.

Implementation practices at the firm are regarded as some of the best in the industry. Aside from the obvious benefit from this fact, strong implementation is particularly meaningful for a product in a relatively less-liquid space such as international small cap equity.

Rating Decile	Weight
1st	10%

VI. Attribution

DFA has sufficient systems in place to monitor portfolio performance attribution. The firm employs a proprietary six-factor model which identifies company size, value, and beta exposure in four markets. Each strategy has a portfolio advocate that regularly reviews the portfolios to ensure they are in compliance. The firm also has additional systems in place provided by external vendors to measure performance and multi-factor attribution. The addition of the momentum screen indicates that they are using these tools to identify areas of potential improvement. Due to the constant review of the investment process, the strategy rates highly in terms of attribution.

Decile	Rating										
	1	2	3	4	5	6	7	8	9	10	
Corresponding Grade	A		B			Proprietary and Confidential		D		F	

Dimensional Fund Advisors

World ex US Small Cap Strategy

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Manager Research

Dimensional Fund Advisors

US Large Cap Value Strategy

Rating Decile	Weight
2nd	100%

Summary

DFA US Large Cap Value is suitable for clients seeking structured and consistent value exposure to the large cap universe for a low fee base. The investment team is very experienced and is supported by some of the top academic researchers in the country. The investment process is top down oriented and focuses on asset class exposure. The team believes that focusing on value and size by eliminating stocks from the universe that don't meet their requirements should produce superior results over holding the entire universe. The resulting portfolios are highly diversified and can be relatively active. In addition, the team has impressive trading efforts that is key in adding additional alpha. Overall, the strategy follows a very disciplined approach and has generated consistent and predictable results.

Rating Decile	Weight
1st	20%
1st	50%
1st	50%

I. Organization

<i>Firm</i>	1st	50%
<i>Team</i>	1st	50%

Founded in 1981, Dimensional Fund Advisors, Inc. (DFA) is a privately held company primarily owned by employees and directors. The firm is managed on a day-to-day basis by Co-CEOs Dave Butler and Gerard O'Reilly, both of whom were recently appointed to the Co-CEO position. Mr. Butler took over the role from David Booth in February 2017, while Mr. O'Reilly replaced Eduardo Repetto after his unexpected departure in September 2017. Mr. O'Reilly, who was also Co-CIO with Mr. Repetto, will continue operating as the firm's sole CIO and Mr. Booth, a co-founder of the firm, remains at DFA as Executive Chairman.

The firm moved its headquarters from Santa Monica, CA to Austin, TX in January 2009 and has investment operations in Austin, Charlotte, London, Santa Monica, Singapore, Sydney, and Tokyo. As of the end of 2017, the firm had roughly \$570 billion in assets under management, including significant portions in domestic equity, international equity, emerging markets equity, and domestic fixed income. Compensation is tied to the financial success of the firm and performance, and it includes a base salary, semiannual bonus, and participation in the firm's long-term incentive plan (LTIP) that allows qualified employees the option of purchasing equity after a three year vesting period of phantom equity units.

Investment strategies are team managed by the firm's eleven member Investment Committee, Investment Policy Committee, and portfolio managers, who meet on a quarterly basis at a minimum. Joe Chi and Jed Fogdall are the co-heads of the Portfolio Management group, taking over for Stephen Clark after he replaced Dave Schneider as head of the firm's North American institutional Group in 2012.

Low historical employee attrition combined with a team investment approach and quantitative process protects the portfolio if they were to have a period of increased turnover. Overall, the investment team has experienced reasonable growth and exhibited above average stability during the past several years. The firm receives a well above average organizational score due to the ownership structure, as well as the stability and quality of the investment professionals.

Dimensional Fund Advisors

US Large Cap Value Strategy

Rating Decile	Weight
4th	20%

II. Information

DFA's research covers thousands of securities around the globe, and the firm analyzes data from a variety of sources including, but not limited to, IDC, Bloomberg, Instinet Analytics, Compustat, OneSource, and Bridge Information systems. Specifically, the firm analyzes market capitalization, book-to-market value, direct profitability, and a number of company specific filters, price discovery filters, and liquidity filters. In addition, qualitative filters are employed to screen out companies that are government held or have a tightly held ownership structure, companies in extreme financial distress, and investment companies. DFA works closely with several leading economists, including Eugene Fama, Ken French, and Bob Merton, in an effort to remain informed of the latest theories and investment research. Recent academic research on profitability, which has been replicated by DFA, shows that high profitability firms have higher average returns than lower profitability firms, leading DFA to add direct profitability as a fourth dimension of returns for its equity portfolios.

In addition to the impressive breadth of information DFA gathers on its investable universe, the continuous research on the factors underlying the firm's investment thesis is also valuable. While the firm's depth of knowledge about individual companies is not as impressive as that of its peers, the amount and type of information gathered by the team is sufficient to execute its investment strategy. As a result, the firm receives an average information score.

Rating Decile	Weight
3rd	20%

III. Forecasting

DFA employs a clear and disciplined forecasting approach. The firm begins by screening companies for market capitalization constraints. The strategy invests in companies with market capitalizations in approximately the top 90% of the investment universe which is defined as the aggregate of the NYSE, AMEX and NASDAQ NMS firms. Companies meeting the market capitalization constraints are then screened for valuation, primarily the company's book-to-market value as well as additional factors such as price-to-cash flow or price-to-earnings. The strategy seeks to invest in securities within the upper 20% of the investment universe sorted by book-to-market values. A number of filters are then applied to each eligible security. The firm's newest research regarding expected profitability is applied using a graded exclusion rule, where stocks with the lowest direct profitability (EBITDA minus interest expense, scaled by book equity) are excluded from the portfolio. By design, a lower number of exclusions are made at the lowest end of the relative price range to ensure the strategy preserves a somewhat deeper value focus. Research performed by DFA has also identified that extreme small cap growth stocks, defined as the lowest 25% by BtM ratio and the lowest 25% by either E/P or CF/P ratio, are a source of negative alpha. A screen has recently been added to remove these stocks from all domestic portfolios.

The firm has been successful in adding alpha through this forecasting approach, and as a result, a significant portion of the strategy's alpha appears to be the result of a consistent overweight to smaller caps and a value style bias. While this is the objective of the investment strategy, it is susceptible to periods of underperformance when smaller caps and value are out of favor. Due to the unique nature of the model and its historical ability to consistently produce alpha, Wilshire views the forecasting process as above average.

Rating Decile	Weight
3rd	20%

IV. Portfolio Construction

The Large Cap Value portfolio holds approximately 200-250 securities. DFA's portfolio construction process includes market capitalization criteria, value considerations, expected profitability, and a qualitative screening process. Securities that do not meet quantitative and qualitative screens are excluded from the eligible universe. Security weights are generally based on free-float adjusted market cap, but may also be adjusted based on liquidity and/or momentum. The team also incorporates price momentum tests, generally delaying buys or underweighting securities with downward momentum.

The strategy is not managed to any specific benchmark and thus, the firm does not have a specific targeted tracking error. However, the number of holdings serves to diversify the portfolio and the firm typically maintains a moderate tracking error against the benchmark. Overall, the construction of the portfolio is geared towards diversification to minimize risk while maintaining a strict sell discipline to keep turnover low. The strategy receives a slightly above average rating with respect to portfolio construction.

Dimensional Fund Advisors

US Large Cap Value Strategy

Rating Decile	Weight
1st	10%

V. Implementation

The firm's trading platform was developed in-house and is an integral part of the investment process. The system was designed specifically for its investment strategies, and incorporates extensive compliance procedures, including eligibility, capacity, and trading entry. As this platform has been developed, the use of electronic trading has increased from less than 50% of all trades in 2006 to more than 95% of trades in 2014. This platform allows for direct market access through custom algorithms as opposed to traditional brokerage. DFA has 24 hour trading capability through its global offices in Austin, Santa Monica, London, and Sydney. The firm has recently started a cross-training program so that traders are able to operate in markets outside of their primary coverage when needed. This helps provide more seamless coverage in the situations ranging from heavy trading volume in any single market to contingency plans for disaster recovery. A virtual desk system has been put in place that allows trade instructions to be placed either with a specific person or to the entire desk where it can be assigned out based on capacity. Team members can also use this system to remotely access their workstation.

DFA has also built out a highly customized version of Charles River since adopting the tool in 2007. Continuing efforts are being made to increase the quantitative aspect of the trading process. DFA reviews the execution of every trade to evaluate effectiveness and look for areas of future improvement. In addition, the firm utilizes a variety of cost evaluation systems and independent cost-review consultants. The firm decided to wind down its soft dollar program by ceasing to accrue new credits after December 31, 2013. Any unused soft dollar credits will be used in a practical manner after this date.

DFA's implementation practices remain one the strongest and most distinguishing aspects of the firm's investment products. According to third party analysis, the firm is highly successful in adding value through its patient and price-conscious trading efforts. This, combined with a substantial commitment to technological trading resources and continued effort to refine/improve the trading practices, results in an extremely strong implementation score.

Rating Decile	Weight
1st	10%

VI. Attribution

DFA has sufficient systems in place to monitor portfolio performance attribution. The firm employs a proprietary multi-factor model which performs attribution along multiple areas. Each strategy has a portfolio advocate that regularly reviews the portfolios to ensure they are in compliance. The firm also has additional systems in place provided by external vendors to measure performance and multi-factor attribution. The addition of the momentum screen indicates that they are using these tools to identify areas of potential improvement.

Decile	Rating									
	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B			Proprietary and Confidential		D		F

Dimensional Fund Advisors

US Large Cap Value Strategy

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Manager Research

Fidelity Institutional Asset Management (FIAM)

Broad Market Duration

Rating Decile	Weight
2nd	100%

Summary

FIAM Broad Market Duration attempts to outpace the Bloomberg Barclays US Aggregate Bond Index by 50-75 basis points per annum, with 100-150 basis points of ex-ante tracking error. The firm remains relatively duration neutral, limiting its duration exposure to +/- 10% of the benchmark. The product boasts one of the deepest and most talented research groups in the industry, generating qualitative and quantitative research. It also boasts a strong portfolio construction process that effectively manages its risk exposures while maintaining a bottom up framework. The overall exposure of the product makes it appropriate in a stand-alone mandate or as an anchor in a core satellite approach.

Rating Decile	Weight
3rd	20%
3rd	50%
3rd	50%

I. Organization

<i>Firm</i>	3rd	20%
<i>Team</i>	3rd	50%

Fidelity Global Advisors is a wholly owned subsidiary of Fidelity Management & Research Company (FMR Co.) and was spun off to become the institutional asset management division of Fidelity. Fidelity works closely with Fidelity and sub-advises many of the Fidelity mutual funds. FMR Corp is fully owned by its active employees (51%) and the Johnson family (49%).

Through its parent FMR, Fidelity has material relationships with its broker-dealer affiliates and may make transactions on behalf of certain clients through such affiliated broker-dealers.

August 2011, Boyce Greer, Vice Chairman of Fidelity and Head of Institutional Investments for Fidelity passed away. Charlie Morrison was appointed as Vice Chairman and President of the Fixed Income division. Derek Young was also named Vice Chairman of Fidelity and President of Fidelity's Asset Allocation division. In October 2011, Doug Moore was promoted to CFO of Fidelity, replacing Bill Dailey who moved to become CFO of Fidelity. In October 2013, Fidelity announced a series of changes across the equity division, including the appointment of Pam Holding as CIO. Ron O'Hanley, Chairman of Fidelity, parted ways with the firm in early 2014. CEO Mike Jones left the firm at the end of 2014 and replaced by Jeff Lagarce. In January 2015, Bob Brown was named Head of Institutional Fixed Income, a new role reporting to President of Fidelity Fixed Income Nancy Prior. Recent changes have happened as part of the last steps in a long term succession planning appointment of Abigail Johnson as CEO of Fidelity Investments.

Fidelity employees are compensated through base salary, bonus, profit sharing, and equity ownership. Investment professional's compensation is largely based on investment recommendations and performance of the funds they work on.

Broad Market Duration is led by Portfolio Managers; Ford O'Neil, Jeff Moore, Celso Munoz, and Michael Plage. Pramod Atluri left portfolio management team and the firm in July 2015 and George Fischer took on a new role within the firm in 2012. The PMs are supported by a large team of credit and quantitative analysts, as well as a large team of portfolio managers. In the past, turnover at the firm was a substantial issue with droves of analysts leaving for other opportunities over the years. However, in recent years, turnover has subsided as the firm began to develop a culture that encourages a career analyst path, versus the prior mentality of progressing to portfolio management. We like the effort being made by the firm to mitigate analyst turnover and hope this trend will continue. As a result, the team ranks above average.

Fidelity Institutional Asset Management (FIAM)

Broad Market Duration

Rating Decile	Weight
1st	20%

II. Information

FIAM has extensive resources dedicated to bottom-up fundamental research. The firm’s research capabilities are divided into two platforms: credit research and securitized research. Both divisions utilize fundamental and quantitative components. Analysts are organized by sector and industry and are typically responsible for covering 1 to 4 total industries. Relative value rankings are assigned to each industry by the respective analyst.

All research notes, reports and financial models analyzed by the firm are placed on a global web-based research platform (“One Point”) to facilitate communication amongst all analysts around the globe in both equity and fixed income. Analysts use a wide variety of information points including: trade publications/newspapers, primary financial documents (10-Qs, 10-Ks), relationships and meetings/calls with company management, competitors, and key industry contacts, enabling them to construct unique perspectives. While being able to deeply investigate credits, FIAM also covers a wide breadth of issuers having its 70+ credit analysts following 30 to 50 companies each. The Fixed income team is also able to leverage an additional 400 research analysts located around the globe who work for Fidelity’s Equity division.

FIAM has also constructed a strong quantitative research group that has built a number of proprietary models used for credit, relative value, structured security, yield curve, and interest rate analysis. The securitized analysts use proprietary analytics to run the entire investable universe through specially designed models to evaluate risk. The internal models also provide the team unique insights into the market that allow them to quickly identify opportunities. The team has also built its in house risk model to better understand risks in the fixed income market.

Overall, the firm has one of the deepest research teams with numerous avenues to gather issuer specific information through fundamental and quantitative research methods. The depth and breadth of the firm’s resources are well above average versus peers.

Rating Decile	Weight
3rd	20%

III. Forecasting

A team framework is incorporated within the decision making process. The team is responsible for all sector and security-level decisions within the portfolio. The team structure provides multiple inputs into the investment process, with final accountability resting on the lead PMs. The team remains vigilant to shifts in market liquidity and remains broadly diversified in government securities and mortgages to maintain liquidity. The team has ample resources and has developed many proprietary tools to stock portfolios by generating a distribution of probable returns. The results of these distributions influence portfolio positioning and risk exposure.

Credit analysis is based on a thorough understanding of the industry and company fundamentals versus peers. Each analyst covers 30-50 names, making it very manageable to gain a deep understanding of their credits. Mortgage analysis is based on expected returns using the firm’s proprietary modeling to estimate prepayments and option adjusted spreads in order to identify securities with the most attractive risk/return characteristics. Overall, FIAM uses a structured process merging fundamental and quantitative research to expected return forecasts that is fairly transparent and repeatable.

Rating Decile	Weight
1st	20%

IV. Portfolio Construction

The Broad Market duration strategy attempts to outpace the Bloomberg Barclays US Aggregate Bond Index by 50-75 basis points per annum, with 100-150 basis points of ex-ante tracking error. The firm remains relatively duration neutral, limiting its duration exposure to +/- 10% of the benchmark. In general, the portfolio construction process focuses on sector allocation, security selection and yield curve positioning. Credit risk is diversified with no individual issues comprising more than one percent. As part of its risk management and relative value monitoring, the firm has constructed a number of reports tracking specific credit and mortgage issues to highlight potential credit concerns. FIAM receives an above average score for its defined portfolio construction process using its system to efficiently translate its forecasts into a portfolio while dissecting the allocation of risk.

FIAM employs a bottom-up portfolio construction process using its proprietary risk model to monitor risk exposures. Portfolios are constructed to exploit relative value opportunities at the security and sector level. The risk budgeting process seeks to maximize the expected IR of investment strategies within acceptable levels of tracking error. FIAM’s risk model provides an ex-ante tracking error and decomposes how risk is being allocated to ensure that the portfolio reflects the expectations of the investment team. Scenario analysis and stress tests are also used to understand how the portfolio reacts under certain economic situations.

Fidelity Institutional Asset Management (FIAM)

Broad Market Duration

	Rating Decile	Weight
V. Implementation	1st	10%

FIAM has an extensive trading team that utilizes a trading database management process called "Point of Trade" that tracks all portfolio positions and its respective trading history. The trading systems are integrated for purposes of back office administration and compliance monitoring firm wide. The trading team is responsible for executing trades at the direction of the portfolio managers. However, the trading team does have limited discretion in execution, and have been integrated as such, to provide market color and the ability to pontificate on relative value with the portfolio management team. Traders have full discretion to seek the most optimal trading strategy that will minimize transaction costs and are compensated in-line with this expectation of best execution in all strategies. The firm's broad resource dedication to the implementation process gives is above average versus peers.

	Rating Decile	Weight
VI. Attribution	3rd	10%

FIAM uses a proprietary multivariate attribution model to identify the sources of performance, drilling down to the security level. Formal attribution reports are generated on a monthly basis which the team reviews to evaluate its investment strategies. Performance attribution is also generated by FIAM's systems on a daily basis and viewed by the investment team. Output from the attribution reports is used to decompose sources of performance by industry and security selection. The reports are used to confirm that sources of performance are coming from expected sources and to help evaluate research analysts and portfolio manager decisions. Overall, the firm receives above average marks for its integration and depth of performance attribution.

	Rating										
Decile	1	2	3	4	5	6	7	8	9	10	
Corresponding Grade	A		B			Proprietary and Confidential		D		F	

Fidelity Institutional Asset Management (FIAM)

Broad Market Duration

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Manager Research

Franklin Templeton Investments

Templeton International Bond Plus

Rating Decile	Weight
2nd	100%

Summary

Franklin Templeton International Bond Plus is an absolute return driven portfolio that invests outside of U.S. fixed income market. The portfolio can invest in US Treasuries but typically keeps the allocation between 0-5%. The product is agonistic with an aggressive expected risk/return profile, seeking to add 300- 600 basis points excess return while taking 300-600 basis points of tracking error risk.

The team is led by an experienced and knowledgeable portfolio management team that has benefited from a stable work environment. Also, the investment team’s ability to leverage the firm’s global research platform through its local offices and equity teams provide additional insight into developed and emerging market countries rivaled by few of its peers. While the product has an absolute return focus, it does have a risk aware portfolio construction process. The team uses its risk model to construct a portfolio that spends its risk relative to its highest conviction ideas. It also performs a thorough attribution analysis to decompose the sources of returns and the team’s ability to spend risk.

Rating Decile	Weight
1st	20%
3rd	50%
1st	50%

I. Organization

<i>Firm</i>
<i>Team</i>

The Templeton organization was founded by Sir John Templeton in 1940. Today, Franklin Resources, Inc., the parent company of Templeton Investment Counsel, LLC, is a publicly-listed company. Directors and officers of Franklin Resources, Inc. own a considerable minority stake in the company’s stock. Currently, the firm provides investment advisory and related services to mutual funds, institutional and private accounts, and other investment products. All portfolio managers and senior professional staff are compensated with a base salary, bonus in the form of cash, and restricted stock and deferred profit sharing plan. Variable compensation is tied to investment performance as well as a number of other factors, such as top-line firm revenue.

In 2006, the Franklin Templeton and Fiduciary teams merged to form one global team that numbers over 110 investment professionals. The resulting merger provided deeper and broader insights for the entire team and allowed Franklin to offer a full suite of domestic and global fixed income products.

Michael Hasenstab, Ph.D, CIO of the Templeton Global Macro Group, manages this strategy along with Sonal Desai, Ph.D., Portfolio Manager and Director of Research. They are supported by five senior global macro analysts, who are all also Ph.D.s. They also have five country analysts, four traders, an institutional portfolio manager and three quantitative analysts. Overall, Franklin has a global investment organization with credible personnel whose incentives are aligned with their clients. As a result, the product ranks above average.

Rating Decile	Weight
1st	20%

II. Information

Franklin Templeton utilizes its global research effort to provide a wide breadth of information for its investment process. The firm utilizes non-proprietary data from SEC filings, First Call, IDC Fact Set, Datastream, sell side research, trade journals, government agencies, and international organizations to develop proprietary models in its investment analysis and risk management processes including a proprietary factor risk model used in its portfolio construction analysis.

Its global research presence provides additional viewpoints from a non US investor perspective and on the ground local research not available to some of its peers. The firm leverages its global equity research platform to facilitate meetings with senior management and government officials abroad providing additional sources of information. Both portfolio managers and traders will travel to assess the local markets, working with local office resources when available. This local level of research and on the ground analysis provides additional insights in its emerging market analysis not available among other managers in the universe. Franklin Templeton uses its global research effort to provide a broad set of information and provide a deeper understanding researching securities and sectors through fundamental and quantitative research. As a result, the firm ranks above average.

Franklin Templeton Investments

Templeton International Bond Plus

III. Forecasting

Rating Decile	Weight
1st	20%

The product seeks add value from country/duration, currency allocation as well as sovereign credit selection. Top down strategies used by the fixed income team are generated in two stages. The first is the Global Investment Forum (GIF) that consists of senior equity, fixed income, real estate and research investment professionals from around the globe. The GIF serves as a forum for senior investment professionals from different disciplines to focus on global macroeconomic trends and provides a framework for understanding the impact of these factors on the fixed income portfolios. The next step is the FIPC which uses the forecasts from the GIF and merges bottom up information provided by the sector research teams to identify value opportunities. The process develops duration, yield curve, currency, and sector strategies available to the entire fixed income platform. The next step is the FIPC which uses the forecasts from the GIF and merges bottom up information provided by the sector research teams to identify value opportunities. The process develops duration, yield curve, currency, and sector strategies available to the entire fixed income platform.

The input from other investment disciplines in the process provides additional perspective that is rarely used by other managers in the universe giving the firm a somewhat unique process. Once strategies have been identified, sector teams seek to identify undervalued securities to achieve target exposures. Security selection employs fundamental credit and economic analysis as well as using quantitative tools to identify relative value opportunities and price dislocations in the market. Weekly meetings provide the team the ability to review their macro forecasts as well as review security selection decisions produced by the sector teams. Overall, Franklin Templeton employs a systematic and transparent process to develop top down strategies and security selection ideas. As a result the firm ranks above average.

IV. Portfolio Construction

Rating Decile	Weight
3rd	20%

Portfolios are constructed using the top down themes developed by the FIPC. A risk budget is developed based on the strategies and limits allowed by the investment guidelines to develop a model portfolio. The team will use its proprietary risk model to scale the positions of the strategies so that they are consistent with the FIPC views of expected risk/return and fit within the risk budget. Other risk models from Yield Book, Barra, and Barclays Point are used to provide additional perspective in budgeting risk and portfolio risk analysis.

The product is benchmark agonistic and will opportunistically invest in both emerging market and developed countries which may lead to, at times, significant deviations relative to the benchmark. Also, the fund has a relatively high expected return target of 300-600 basis points while targeting 300-600 basis points of tracking error and can invest up to 35% below investment grade securities. The portfolio can invest in US Treasuries but typically keeps the allocation between 0-5%. While the product will take significant tracking risk relative to the benchmark, the use of the firm's models to scale positions that reflect the conviction and views of the FIPC gives the product ranks above average.

V. Implementation

Rating Decile	Weight
3rd	10%

Portfolio Managers and traders execute all bond and currency trades for the product. The team has three traders and an assistant trader, though most of the value add from trading comes from senior trader Michael Messmer with the others acting as execution traders. The firm stays in contact with the street in order to gauge liquidity as well as identify houses that will provide the best executions given positions on their own books. All trading activity is overseen by the firms Brokerage Committee that meets quarterly to review trading costs and broker/dealer relationships. The committee also provides a list of preferred brokers that have historically been able to deliver best execution possible. Charles River system provides straight through trade processing, trade allocation, and pre trade compliance checks. Franklin also has an internally built system to review post trade compliance as well. This firm's trading platform, including execution in local markets, gives the product an above average ranking. However, it should be noted the there is a heavy reliance on the senior trader in the group. Also, given the large positions made in the highest conviction bonds, the strategy can run into liquidity issues. These factors temper the team's implementation score.

Franklin Templeton Investments

Templeton International Bond Plus

Rating Decile	Weight
1st	10%

VI. Attribution

Franklin Templeton uses a proprietary attribution model as well as Barclays Point to decompose performance. Franklin's proprietary attribution model is based on the same factors as its proprietary risk model allowing the team to attribute if they are being compensated appropriately from the risk being spent. Performance is formally reviewed against the benchmark on a monthly basis in order to identify the drivers of performance. The investment team is also provided with daily attribution and risk analytics allowing the team immediate feedback on their performance and ability to adjust the portfolio. Attribution allows the team the transparency to determine if the drivers of performance are coming from the investment team's expectations. Unusual results will lead to further investigation which may cause an adjustment to the portfolio or the investment process. Overall, the firm's use of attribution to review performance and examine their investment strategies on a daily and monthly basis gives the product an above ranking.

	Rating									
Decile	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B			Proprietary and Confidential		D		F

Franklin Templeton Investments

Templeton International Bond Plus

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Manager Research

CBRE Clarion Securities LLC

CBRE Clarion Global Real Estate Securities

Rating Decile	Weight
2nd	100%

Summary

The CBRE Clarion Global Real Estate Securities strategy is an attractive, core global real estate investment strategy for clients seeking exposure to global listed real estate. The CBRE Clarion team, under the parent of world's largest commercial real estate company, CBRE Group, Inc., manages one of the longest global real estate track records in the industry. The team's approach employs both bottom-up selection and top-down allocation to produce a diversified, risk-aware portfolio of attractively valued companies with the most compelling risk-return potential over the long-term.

The strategy differentiates itself from peers through the size, experience, and stability of the team, as well as from possessing an informational advantage from having access to the large network of local real estate professionals in CBRE Group globally. Alpha is expected to be generated primarily from the team's Relative Value Analysis tool (bottom-up), but also from the team's allocation (top-down) decisions. The end result is a 70-90 holding portfolio with appropriate risk constraints in place relative to the FTSE EPRA/NAREIT Developed Index. The portfolio's goal is to beat the index by 200-400 bps over a full market cycle, currencies are not hedged, and turnover is expected to range between 30-50% per year.

Since the Global Financial Crisis, the performance of the strategy has been weak relative to the benchmark and peers. Between 2008 and 2014, the strategy nearly quadrupled in assets and the team admittedly became more defensive by increasing the number of holdings close to 100, particularly in the latter years, likely to protect this asset base. This resulted in benchmark-like or slightly worse performance because it hindered the team's ability to add value through selection. As of July 2017, assets in the strategy are at a much more reasonable level and the team has made tangible enhancements to its investment process to improve performance going forward. These enhancements, implemented in April 2017, are viewed very positively by Wilshire and are expected to increase the team's ability to add alpha, primarily from stock selection, in the future. As a result, the strategy remains a top-conviction global real estate investment option for clients.

CBRE Clarion Securities LLC

CBRE Clarion Global Real Estate Securities

	Rating Decile	Weight
I. Organization	1st	20%
<i>Firm</i>	<i>1st</i>	<i>50%</i>
<i>Team</i>	<i>1st</i>	<i>50%</i>

CBRE Clarion Securities (Clarion) traces its history back to Audit Investments, a firm founded in 1969 by Kenneth Campbell. In 1991, Audit was merged into Campbell-Radnor Advisors when T. Ritson Ferguson and Jarrett B. Kling from Radnor Advisors joined as principal owners of the combined firm. In 1995, the firm sold an interest to Clarion Partners, a direct real estate investment firm, and became a wholly-owned subsidiary with Clarion under the ING Group in 1998. In the second half of 2011, CB Richard Ellis Group (CBRE) completed its acquisition of ING Clarion Real Estate Securities. As a result of the acquisition, the real estate securities team was rebranded as CBRE Clarion and the CBRE Group became the world's largest commercial real estate investment management company with roughly \$100B in assets (NYSE: CBG). As of July 2017, the Clarion team manages over \$16 billion of these assets.

The Clarion team was also able to negotiate a ~25% equity stake in their business via this transaction in 2011. At that time, 11 original partners bought into the firm. Today, the group has expanded to 21, all of whom are now considered "Principals" in the business. Almost all of the equity has been distributed, with equity stakes subject to a 9-year vesting schedule. Individuals receiving a stake have signed evergreen employment contracts (5-8 years in length) that include 2-year non-compete agreements. In addition, it is worth noting is that the team has never lost a key investment professional to a competitor.

In March 2016, T. Ritson Ferguson, CEO and co-CIO of CBRE Clarion Securities, was named CEO of CBRE Global Investors. CBRE Global Investors is the global real estate investment management arm of the CBRE Group that houses CBRE Clarion Securities. Mr. Ferguson was just named Global CIO of CBRE Global Investors in 2015, so this recent CEO promotion was further indication of his importance in the broader firm. Important to note is that Mr. Ferguson remains located with the Clarion team in their office outside of Philadelphia. In recent years, Mr. Ferguson has relinquished some of his day-to-day responsibilities at Clarion to Joseph Smith, President and co-CIO, and Steven Burton, co-CIO; however, he is still deeply involved in the investment process and did not relinquish any responsibilities with this recent promotion. In short, there was no change to Clarion's business structure or investment decision making process as a result of the CEO appointment.

The Global Real Estate strategy is managed by a stable and experienced team of 10 portfolio managers and a roughly 15-person team of dedicated research analysts. Coverage for analysts is arranged by sector and region across three teams, Asia-Pacific, Europe, and the Americas. The majority of the team is located in Radnor, PA, but roughly 40% of the team is located in offices in London, Sydney, Tokyo, and Hong Kong. Historical turnover has been low and most individuals possess double-digit years of tenure with the firm. Compensation for the non-principals consists of a base salary, annual bonus, and a deferred compensation plan with a five-year vest, plus equity ownership for the principals. Bonuses are paid on overall firm profitability, performance, and qualitative factors such as contributions to the team, firm, and process. The team is also supported by a four-person trading team and a quantitative investment research team (QIR team). The formal buildout of the QIR team occurred in 2016 as a result of the team undertaking a holistic review of its investment process to improve the strategy's performance going forward. The QIR team is led by Chris Reich, Senior PM who has been with the firm since 2004, and consists of three experienced analysts with varying backgrounds in real estate analysis, portfolio analytics, database management, and coding. In addition to being larger and more experienced than most peers, the Clarion team also enjoys the ability to access the direct property research and resources available within the CBRE Global Investors and CBRE Group organizations.

Overall, CBRE Group is an extremely well-known and respected firm, and the Clarion team is one of the most well-resourced and stable real estate groups in the industry. The team's access to individuals and information from the direct side of the business is viewed positively, and overall the team rates highly relative to peers.

	Rating									
Decile	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B		Proprietary and Confidential		D		F	

CBRE Clarion Securities LLC

CBRE Clarion Global Real Estate Securities

Rating Decile	Weight
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II. Information

1st	20%
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The goal of the strategy is to invest in undervalued real estate in the listed markets to generate consistent outperformance through a conviction-based portfolio. To accomplish this goal, intensive research is performed to identify those companies with the most compelling risk-return potential. The majority of this research is conducted internally and is performed on REITs, REOCs, and other companies with significant real estate activities. In total, the investment universe consists of over 900 stocks. Conducting due diligence visits is an important component of the research process and the firm estimates that it conducts over 2000 management meetings a year, many of which include property visits.

The process attempts to add alpha from both the bottom-up selection and top-down allocation decisions. Securities deemed attractive from the bottom-up have high levels of cash flow generation, discounts to NAV, high quality properties, and strong management teams. The attractiveness of these securities are determined through a qualitative and quantitative process. From the top-down, the PMs on the Global Investment Policy Committee (GIPC), evaluate macroeconomic and capital market trends, public company valuations and performance trends, and private market research and trends, all by region. To better inform decisions, the work of the GIPC is supplemented with macroeconomic trend analysis provided by the CBRE Group private markets research team that consists of over thirty professionals globally. This information is also used by analysts for individual security selection. The team also has access to the CBRE Group acquisition and disposition professionals that are actively involved in private real estate transactions around the globe. This access affords the team an additional and valuable source of supplemental information to their already thorough company analysis, particularly on the in the U.S. direct real estate unit where the group is largest.

Taken as a whole, the information gathering process is superior to peers due to the insight gained from CBRE's vast network of on the ground, property-level professionals that is used in conjunction with the deep research performed by the team.

Rating Decile	Weight
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III. Forecasting

2nd	20%
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The investment process combines bottom-up selection and top-down analysis to select securities for the portfolio. The bottom-up selection begins with a Relative Value Analysis (RVA) system that uses quantitative and qualitative factors to rank-order securities on total return. Quantitatively, rankings of 1-10 are produced on all securities in the universe (by property type in the U.S. and geography elsewhere) based each stock's score in eight equally-weighted factors in the buckets of value, growth, quality, and market sentiment (two factors in each bucket). Qualitatively, analysts construct proprietary NAV and earnings models, review balance sheet strength, and assess management and property quality for every stock under coverage. In short, the bottom-up selection focuses on attractively priced, high quality companies with strong management teams where the qualitative analysis aligns with a high quantitative ranking.

The top-down part of the process is the output of the senior PMs at the monthly GIPC meeting. The global macro environment is reviewed and discussed, with emphasis placed on economic conditions, capital markets, and real estate fundamentals (i.e. occupancy, cap rates, supply/demand). Quantitatively, a sector ranking analysis (SRA) is incorporated into the top-down decision through a factor-based ranking of 20 geographic and property sectors on the factors of value, growth, and market sentiment. The portfolio is then tilted towards those areas where the team's macro assessment aligns with the SRA rankings.

In April 2017, the team implemented material process enhancements to improve performance after a yearlong process review by the QIR team. The enhancements comprise both of the quantitative stock ranking processes described above, namely the incorporation of market sentiment factors and the SRA in the bottom-up and top-down analysis, respectively, and are intended to supplement the fundamental stock selection process. In other words, the enhancements will not lead the team to select securities on their quantitative merits alone, but should increase the team's conviction when the qualitative and quantitative analysis align. While the strategy can struggle when valuations are ignored and low quality is in favor, Wilshire views the enhancements positively as a tangible way for the team to better utilize its deep property market information. When combined with the strong fundamental analysis performed, forecasting rates above-average.

CBRE Clarion Securities LLC

CBRE Clarion Global Real Estate Securities

Rating Decile	Weight
3rd	20%

IV. Portfolio Construction

The portfolio is benchmarked against the FTSE EPRA/NAREIT Developed Index with an outperformance goal of 200-400 bps over a full market cycle. Holdings in the strategy are expected to range from roughly 70-90 securities, depending on the combination of the GIPC's allocation views, weightings in the index, and market liquidity (i.e. - will hold closer to 70 securities when favoring the U.S. because the market is more liquid, compared to more holdings if favoring less liquid Asia). Of note, the team recently worked to concentrate the portfolio to the 70-90 holdings range as a result of missing opportunities in 2014-2015 from being over-diversified. The portfolio held around 100 securities during that time and the team is focusing more on stock selection and active weights going forward. This is viewed positively and is a way for the team to capitalize on their deep research while still managing a diversified portfolio with adequate benchmark-relative constraints for risk (see below). While a tracking error is not targeted, tracking error is still expected to fall in the 2-4% range after this slight concentration.

Since April 2017, the GIPC has changed from meeting quarterly to monthly to determine the portfolio's future allocation guidelines. Allocation decisions (i.e. portfolio tilts) are still made with a 12-18 month mindset to allow for property market trends to develop, but the focus is on shorter-term sector allocations over longer-term country allocations going forward. Recommended by the QIR team, this change was made after realizing the GIPC's historical country over- and underweight recommendations typically detracted from returns. While relative country weightings are still limited to +/- 20% for the U.S. and +/- 10% for all other countries, exposures are expected to closely align with benchmark going forward. Instead, benchmark deviations are expected at both the security and sector level, constrained to +/-5% and +/-10%, respectively, as these historical decisions have shown to be additive. Non-benchmark exposures are expected to remain low at roughly 5% due to lower liquidity, and currencies are not hedged in the portfolio.

Portfolio construction is an active part of the process. Recent concentration efforts to capitalize on the team's deep research are viewed positively, as is the focus on security and sector deviations going forward as they have historically added value. Portfolio construction receives an above-average rating.

Rating Decile	Weight
5th	10%

V. Implementation

CBRE Clarion's trading is executed by four traders who allow for 24-hour trading based on their locations globally (two in Radnor, PA; one in London; and one in Sydney, Australia). This four-person team is led by Curtis Cooper, Head of Trading and principal, who is located in Radnor and has been at the firm since 2000. The other three traders are all have at least ten years of experience and have been in place since 2012 when James Pearce was added in London to replace the previous trader there. The trading team is not dedicated to just the Global Real Estate Securities strategy, but instead is responsible for trading all strategies run by the Clarion Securities team. However, the Global Real Estate Securities strategy comprises the bulk of Clarion Securities' assets.

The trade process is overseen by the portfolio management team when daily trading priorities are established by the GIPC. Specific pricing limits and estimated trade sizes are established at the GIPC meetings in a dialogue between the portfolio managers and the traders. Factors considered in the trading process include recent price activity, trading volume, buy/sell interest as determined through regular communication with brokerage contacts, and current activity in the overall real estate securities markets. Clarion uses the Advent Portfolio Exchange (APX) portfolio accounting system, Advent Moxy trade order management system, Advent Rules Manager for pre- and post-trade compliance, and Omgeo for trade communication and settlement. Annual turnover is expected to fall in the 30-50% range and less than 10% of trades are executed on a soft-dollar basis.

Overall, the firm's trading process is adequately monitored and staffed. Wilshire previously harbored concerns regarding the size of the strategy's asset base and its impact on the team's ability to implement the strategy, but these concerns have lessened recently as assets have fallen to a more manageable level. As of July 2017, assets in the Global Real Estate strategy were roughly \$6.1 billion, while total real estate assets across the firm totaled roughly \$16 billion. At a firm level, this asset base is still larger than many peers but capacity constraints in the standalone Global Real Estate mandate have lessened. For these reasons, implementation receives an average rating.

Decile	Rating									
	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B		Proprietary and Confidential		D		F	

CBRE Clarion Securities LLC

CBRE Clarion Global Real Estate Securities

Rating Decile	Weight
2nd	10%

VI. Attribution

CBRE Clarion uses FactSet attribution software to run performance analysis. Portfolio holdings are uploaded on a daily basis and performance can be analyzed versus common indices, client-specific benchmarks, or proprietary CBRE Clarion security categories. This analysis helps the portfolio management team understand which management activities - stock selection, sector selection, or trading - is causing the portfolio to out- or underperform the index. The results are looped back into the investment process, and the firm regularly makes adjustments to unexpected factor exposures based upon their portfolio attribution analysis. Additionally, bonus compensation for PMs and analysts is partially tied to performance relative to their respective coverage area, which is monitored via FactSet.

As mentioned above, the team implemented material changes to its investment process in April 2017 after undertaking a yearlong, holistic review of the process from start to finish. In early 2016, the QIR team was created in order to perform this review, and the 2017 enhancements to the process were made as a direct result of their findings, back testing, and conclusions. Going forward, the QIR team is a permanent fixture of the investment team and will continue to assess the efficacy of the team's process. In addition, the QIR team will continue to look at ways for the team to make the best use of the vast property market data it has at its disposal. Making better use of this data was integral to the quantitative RVA and SRA process enhancements implemented in April 2017, and Wilshire views the initial results of the enhanced process very positively. Compared with peers, CBRE Clarion has a robust portfolio attribution process that is actively used for strategy improvements instead of just backward-looking references. Attribution rates above-average.

	Rating										
Decile	1	2	3	4	5	6	7	8	9	10	
Corresponding Grade	A		B			Proprietary and Confidential		D		F	

CBRE Clarion Securities LLC

CBRE Clarion Global Real Estate Securities

Firm Information

CBRE Clarion Securities LLC

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Manager Research

Lazard Asset Management LLC

Emerging Markets Equity

Rating Decile	Weight
1st	100%

Summary

Lazard's flagship emerging markets equity product serves as a strong solution for investors seeking to gain broad market exposure to this space. The strategy is team-managed by three portfolio managers, led by seasoned investor James Donald, and supported by three dedicated analysts and the firm's global research platform. Together, the team is actively engaged in implementing a rigorous bottom-up, fundamental research process that emphasizes investing opportunistically in companies with strong financial productivity at attractive valuations. The investment process ultimately results in a multi-cap portfolio consisting of approximately 70-90 securities, diversified across regions, countries and sectors. This strategy may, at times, exhibit a value orientation given the firm's legacy relative value philosophy. Performance tends to struggle when markets are driven by lower quality cyclicals but features reasonable downside protection during declining markets.

Given the investment approach's sensitivity to valuation, the portfolio tends to exhibit a high quality, relative value tilt over time. In addition, the portfolio may lag in bullish markets or those characterized by cyclical rallies. The product recently re-opened to new investors, but capacity is limited.

Rating Decile	Weight
1st	20%
1st	50%
1st	50%

I. Organization

<i>Firm</i>	1st	20%
<i>Team</i>	1st	50%

Lazard Asset Management LLC (LAM) is a subsidiary of Lazard Frères & Co. LLC, (LF & Co.), a New York limited liability company with one member; Lazard Group LLC, a Delaware limited liability company. Interests of Lazard Group LLC are held by Lazard Ltd, a Bermuda corporation with shares that are publicly traded on the NYSE. Employees of Lazard Asset Management own roughly 15% of Lazard equity rights. The remaining equity is owned by LF & Co.

Ashish Bhutani has been at the helm of the firm as Chief Executive Officer since 2004 and has overseen the firm's expansion into new product lines in recent years. The firm has been methodical and selective in this endeavor while laboring to preserve the integrity and entrepreneurial spirit of the broader organization. Mr. Bhutani is flanked by Deputy Chairmen, Andrew Lacey (US and global strategies) and John Reinsberg (International and global). Investment professional are compensated with a competitive salary and bonus structure that is determined vis-à-vis quantitative and qualitative inputs. Certain employees are eligible for receive restricted stock units of Lazard Ltd through the firm's Equity Incentive Plan and restricted interests in shares of certain funds managed by Lazard and its affiliates. Each of these incentives is subject to a multi-year schedule and restrictive covenants. Over the years, the firm has continued to strengthen its global research platform, committing resources to attract and retain top flight talent.

Lazard is a strong organization, as shown by the stability of its executive leadership, experience of investment professionals and strong collegial culture. The firm continues to expand and diversify its product base, but is careful as to maintain a focus on areas of core competency while preserving its commitment to client service.

The Emerging Markets Equity strategy is managed by a team of three portfolio managers and three dedicated analysts. The team is led by seasoned emerging markets investor James Donald, who has been on the team since 1996. Rohit Chopra and Monika Shrestha serve as the other portfolio managers on the team, with both having over ten years with Lazard. In addition to three dedicated research analysts, the team is supported by the firm's deep emerging markets research platform. The investment team has been very stable under Mr. Donald's leadership. The only recent change was the internal transfer of PM Eric McKee from the Emerging Markets team to the Emerging Markets Small Cap team. We maintain a high opinion of James Donald and the firm's emerging markets equity platform.

Lazard Asset Management LLC

Emerging Markets Equity

Rating Decile	Weight
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II. Information

1st	20%
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Lazard excels in information gathering due to the strength of its global research platform. The firm has been using the same relative value investment philosophy in emerging markets since 1994. The team's investment approach is highly grounded in fundamental bottom-up research. Portfolio managers spend considerable time traveling, as they also serve as analysts on the team. In addition, the team leverages a deep platform of analysts. Research analysts also meet with suppliers, customers, and competitors, among other industry contacts, to gain a more comprehensive understanding of the company's competitive positioning and sector/industry landscape. The team and analysts have demonstrated an in-depth knowledge of the companies it invests in and a firm understanding of the fundamental risks that affect each company, including but not limited to corporate governance and macro economic risk.

Rating Decile	Weight
---------------	--------

III. Forecasting

1st	20%
-----	-----

The emerging markets team employs a clear and disciplined approach to forecasting. The team seeks to invest in companies that demonstrate changing fundamentals, attractive valuations (relative to financial productivity), quality of management, competitive advantage, and an assessment that differs from the consensus. As part of the firm's relative valuation philosophy, the team looks for the most attractively valued companies with high or stable ROE of typically 15%. Integral to the valuation process is a structured approach to quantifying macro-economic, political, portfolio, and corporate governance risk. The team applies a risk score to each underlying factor, which aggregates into a total risk score that is used as a discount factor to the firm's price target. The team seeks a risk adjusted expected return of at least 20%. The team's approach is very bottom-up, and while recent performance has been somewhat weak, longer-term results remain very good. Performance attribution shows that value has been added over longer time periods through stock selection.

Rating Decile	Weight
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IV. Portfolio Construction

1st	20%
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Portfolios are constructed with 70-90 securities, and position sizes are determined based on conviction and liquidity. Explicit position targets have been set for specific ranges of liquidity. Furthermore, the team has allocation ranges for each country which vary depending on its representation in the index. The team does not use any optimization techniques in the portfolio construction process, however the firm has a quantitative research team in place to evaluate the portfolio composition and risk. In addition, the team considers portfolio risk in its evaluation process, which considers how the addition of a security will change the risk/reward characteristics of the portfolio, as well as concentration, index, and liquidity factors. Portfolios may include common stocks, preferred stocks, ADRs, GDRs, convertible securities, warrants, rights and Rule 144A securities. The team exercises sound portfolio construction and is competitive relative to other fundamentally based strategies.

Rating Decile	Weight
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V. Implementation

1st	10%
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The firm has an in-house equity trading staff of eleven traders based in New York, London, and Sydney, who handle all equity trading across the firm's equity mandates. Lazard utilizes Latent Zero for its equity order generation and equity trade execution, broker direction, and allocation. The firm employs the Charles River Trading/Compliance Master for compliance monitoring on a pre-trade and T+1 basis. This system is compatible with OrderGen and Thomson Financial's PORTIA, the firm's portfolio accounting system. Lazard monitors trading costs through quarterly transaction cost reports prepared by ITG. Lazard has used up to 20-25% of its total commission dollars to pay for soft-dollar research services. Annual turnover for the strategy is between 30% and 50%. We appreciate the deep team and robust trading efforts, but have slightly tempered our rating in this category due to the challenges Lazard's large emerging markets asset base presents.

Rating Decile	Weight
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VI. Attribution

1st	10%
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Lazard uses Factset for performance attribution which breaks portfolios into sector, industry, currency, and country groups. The firm's dedicated Quantitative Research team has also constructed a proprietary multi-factor model for the emerging markets portfolio that simulates the effects of changes to the portfolio, and provides the product team with risk reports on a monthly basis.

Decile	Rating									
	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B			Proprietary and Confidential		D		F

Lazard Asset Management LLC

Emerging Markets Equity

Firm Information

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Manager Research

MackKay Shields LLC

Core Plus

Rating Decile	Weight
1st	100%

Summary

MackKay Shields provides three types of core product with varying degrees of risk exposure, including Core (conservative), Core Plus (aggressive), and Core Plus Opportunities (most aggressive). The team is comprised of highly experienced professionals with a long history of working together. The strategy holds securities only if their yields are high enough to compensate for the associated risks. The process includes a top-down element as well as a bottom-up security selection process. The team employs a four-step investment process by first determining where the economy falls in the risk cycle, then tilting duration, yield curve, sector allocation, and security selections to take advantage of the market environment.

Rating Decile	Weight
1st	20%
1st	50%
1st	50%

I. Organization

Firm

Team

Founded in 1938 as an economic consulting firm, MacKay Shields has expanded over time to offer products across the full range of fixed income products as well as international equity and convertible strategies. The firm was later purchased by New York Life Insurance Company in 1984, but it remained autonomous. MacKay Shields manages separate accounts and sub-advises most of the Mainstay Funds, the mutual fund platform of New York Life Investment Management (NYLIM). In 2009, the firm acquired the assets of Mariner Municipal Managers LLC, and its municipal team joined as a result. MacKay Shields prides themselves as a multi-boutique organization with diverse revenue streams from their different products and teams.

Compensation is comprised of a base salary and an annual bonus that is available to all employees. The incentive bonus equal to a significant percentage of the firm's pre-tax profits and is paid annually to the firm's employees based upon the individual's performance and the profitability of the firm. MacKay Shields has established a Phantom Stock Plan where awards can be made annually and vesting takes place over a period of several years. Participation in the plan by senior professionals is contingent upon the execution of an Executive Employment Agreement.

The strategy is managed by the newly formed Global Fixed Income team, including Portfolio Managers Dan Roberts, Lou Cohen, and Michael Kimble, Taylor Wagenseil, Senior Adviser and previous Portfolio Manager, is set to retire in August 2017. MacKay Shields is in the midst of a one year transition plan and Wilshire expects a smooth transition. Taylor's responsibilities were primarily on the High Yield and Global High Yield products, and the bulk of his responsibilities will be taken over by Michael Kimble. Mackay Shields is in the process of grooming the next generation of investors, and for the Core suite of products those include Anthi Simotas and Alexandra Wilson-Elizondo. The team is an integration of the former High Yield Active Core team led by Dan Roberts (came from Pareto Partners in 2004) and the former Core team led by Gary Goodenough. In 2011, Gary Goodenough announced that he was scheduled to retire by 2013, and Dan Roberts became the new head. There were two departures and two additions as the result of the integration.

MackKay Shields LLC

Core Plus

Rating Decile	Weight
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II. Information

1st	20%
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The team focuses on both top-down and bottom-up credit analyses. With the integrated team, corporate credit research became a stand-alone function with 7 analysts covering investment grade and high yield credits. Credit analysts utilize a wide range of sources to gather information, such as company financial statements, Wall Street research, periodicals, competitors, and customers. Team members also have access to research performed by the firm's other teams, such as value, growth, convertibles, and small cap. One competitive advantage MackKay Shields has over peers is the greater access to company management that it gains due to its size. For example, analysts often conduct one-on-one meetings with management at road shows and conferences. As a result, team members are better positioned to make qualitative business assessments that are crucial to the investment process. MackKay Shields therefore receives a high score in information collection. With the combined team in place, they are well resourced and are more effective and efficient.

Rating Decile	Weight
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III. Forecasting

1st	20%
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The team exercises a four-step investment process. Step one starts with a top-down macro overlay by determining what stage of the risk cycle the economy is in. The team believes that there is a risk cycle every 3-5 years. Portfolios should have certain characteristics during different stages of the cycle to take advantage of the environment and yield levels. Step two is to decide on the five key fixed income risk factors based on their determination of the economy position in the cycle. For example, during an early recovery stage, the portfolios have a shorter duration, a flattening curve bias, and an emphasis in sectors such as high yield and convertibles. Step three assesses sector relative valuations and opportunities. Step four is to evaluate individual security risk-return values. For yield curve and duration analysis, the team also uses proprietary models to forecast the direction of interest rates and the fair value of curve structure. The team analyzes relative value by examining the historical spreads within and outside a sector to aid in forecasting future performance. The security selection process begins with reviewing individual security spread relationships and comparing them with alternative issues.

The team favors issues with attractive yields and credit quality stable and improving. Overall, the team has a systematic forecasting process and a blend of top-down and bottom-up approaches. Please note, the Core and Core Plus composites dates back to the former Core team led by Gary Goodenough, and the Core Plus Opportunities composite dates back to the former High Yield Active Core team led by Dan Roberts.

Rating Decile	Weight
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IV. Portfolio Construction

3rd	20%
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Portfolios are constructed in line with the top down forecasts for duration, yield curve, sector allocation, and issue selection. The team provides three categories of core product with varying degrees of risk exposure: Core (conservative), Core Plus (aggressive), and Core Plus Opportunities (most aggressive). In 2011, the team developed and implemented a new risk budgeting and monitoring system. It takes into account of portfolio guidelines and current holdings to ensure that risk exposure is consistent across platform, at the same time in line with client guideline spirit.

The strategy looks to hold between 100-175 issuers and the maximum position in a single issuer is limited to 3% above the benchmark. The maximum allocation to off-benchmark assets depends on the product in the Core Suite. Core Investment Grade sticks to benchmark issuers, Core Plus can go up to 40% in non-benchmark assets, and Core Plus Opportunities is agnostic, but limits below investment grade to 30% exposure. The main difference between the Core Plus and Core Plus Opportunities strategies is an allocation to Mackay's Defensive Bond Arbitrage commingled fund in the Core Plus Opportunities strategy. The team intends to keep the portfolio fully invested but normally has a cash allocation of 0% to 5%. The firm will sell a security if it exhibits at least one of the following: credit deterioration (the most important discipline), re-positioning caused by a change in the firm's top-down outlook, excessive downward price volatility, or recognition of an alternative relative value opportunity.

While the team is benchmark aware, tracking error may vary depending on the current stage of the market cycle as well as PM investment decisions. Overall, the team constructs a fairly diversified portfolio; however, the Core Opportunity strategy can be very aggressive at times. With its large allocation to out-of-index sectors and the usage of derivative instruments, the portfolio can potentially generate large variances to the benchmark from time to time which requires investors to have certain tolerances to market volatility and benchmark deviation.

MackKay Shields LLC

Core Plus

	Rating Decile	Weight
V. Implementation	1st	10%

The team has five traders. The annual portfolio turnover has ranged from 50% to 100% for the Core and Core Plus strategies, and is less than 50% for Core Plus Opportunities. The firm uses Charles River as its order management and compliance system. MacKay Shields has a brokerage committee that monitors trade execution quality and brokerage allocations. Senior representatives from each of the investment teams head the committee. The team changed the portfolio profile from risk averse to risk seeking in a matter of months during early 2009 in the Core Plus Opportunities portfolios, demonstrating their ability to effectively implement strategy shifts and generate above-peer returns. Overall, the team is staffed with experienced traders and has adequate resources and systems.

	Rating Decile	Weight
VI. Attribution	3rd	10%

Monthly performance attribution is generated using a both Facset and a proprietary transaction-based methodology. Excess return is distributed among five factors: duration, yield curve, sector weighting, issue selection, and yield. The team also conducts sector performance attribution to determine the rotation effect between Treasury, Agency, Corporate, residential MBS, CMBS, ABS, and cash. The team uses daily attribution reports to monitor every issue in the portfolio verses the benchmark to verify that active bets are in line with the views of the investment team. The integration of attribution into the investment process has aided in their portfolio construction effort.

	Rating									
Decile	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B			Proprietary and Confidential		D		F

MackKay Shields LLC

Core Plus

Firm Information

MackKay Shields LLC

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FIRM FOUNDED: 1938

OWNERSHIP : Wholly Owned Subsidiary

MackKay Shields is 100% owned by New York Life Investments which, in turn, is owned by New York Life Insurance Company.

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Manager Research

Neuberger Berman

International Select

Rating Decile	Weight
1st	100%

Summary

The Neuberger Berman International Large Cap Equity strategy is a suitable investment option for clients seeking core-like exposure to the Non-US equity space. The strategy is grounded in bottom-up, fundamental analysis and tilted towards owning large-cap companies. The lead portfolio manager, Ben Segal, exhibits impressive investment acumen and oversees a team that demonstrates a comprehensive understanding of the companies in the portfolio, having added considerable value through a competitive forecasting approach. The investment process ultimately results in a portfolio of approximately 50-70 securities with the ability to hold up to 20% in emerging markets. The strategy tends to exhibit a slight growth orientation, owed in part to its "quality at a reasonable price" approach.

In early 2014, Ben Segal, lead portfolio manager, relocated to the firm's Singapore office to strengthen his knowledge of the ever expanding Asia Pacific opportunity set. This geographic change was intended to be temporary and last no more than two years. During the summer of 2016 Mr. Segal moved back to New York City as expected. We continue to believe having the team operate from one location bodes very well for the platform.

Rating Decile	Weight
2nd	20%
2nd	50%
1st	50%

I. Organization

<i>Firm</i>	2nd	20%
<i>Team</i>	1st	50%

Founded in 1939, Neuberger Berman Group LLC is an independent asset management firm with global capabilities expanding over equity, fixed income and alternative investments. The firm experienced a significant ownership change when its former parent company, Lehman Brothers, Inc., went bankrupt in September 2008. After a management buyout that closed in May 2009, the firm became 51% employee controlled with the remainder held by Lehman Brothers Holding Inc (LBHI). This new entity emerged debt free but with perpetual preferred shares and semi-annual coupons. In the first quarter of 2012, Neuberger Berman issued two notes to be paid down in six and eight years, respectively. The proceeds were used to purchase all outstanding preferred shares, a move which lowered the effective coupon rate paid by the firm. In the first quarter of 2013, Neuberger Berman accelerated a forward plan to purchase the equity stake held by LBHI, and as of 2015 the firm is 100% owned by current and former employees.

The International strategy is led by Ben Segal, who has an impressive work and educational background, and began co-managing the firm's International Equity product in 1998. He later took over full discretion for that product in 2001 and has been the Lead PM on International Large Cap product since 2005. He is supported by six Global Sector Analysts. Since 2003, Mr. Segal has built upon the product platform that was in place.

In 2008, the team witnessed the departure of Associate Portfolio Manager, Milu Komer, who joined the firm in 2001 and was promoted to Associate PM in 2005. She left to join CRM to head up their International Equity strategy. While Ms. Komer was serving as an Associate PM, Mr. Segal is without question the key to success for the strategy. Then in February 2011, Matt Chan, a Global Sector Analyst covering IT and Consumer Staples, resigned for another opportunity. In both of these cases it at least appears the driving force behind their decision to leave was to be part of a smaller team, and to have more decision making control. So, as analysts develop and expand their responsibilities, it is possible that from time to time the team will see further departures of individuals seeking out more portfolio management type responsibilities. These changes did not and should not adversely impact Mr. Segal and his team from executing their process successfully.

Overall, the senior members of the team have impressive educational backgrounds and work experience. Mr. Segal has demonstrated a strong passion for investing and a firm grasp of the day-to-day research and management of his team. The push to become 100% employee-owned by the end of 2016 further strengthens our conviction in the organization.

In early 2014, Ben Segal, lead portfolio manager, relocated to the firm's Singapore office to strengthen his knowledge of the ever expanding Asia Pacific opportunity set. This geographic change was intended to be temporary and last no more than two years. During the summer of 2016 Mr. Segal moved back to New York City as expected. We continue to believe having the team operate from one location bodes very well for the platform.

Neuberger Berman

International Select

	Rating Decile	Weight
II. Information	1st	20%

The international equity team's investment philosophy is highly focused on in-depth, bottom-up, fundamental research. The team uses proprietary screens to narrow down its universe, which has very defined criteria within the categories of a company's operating track record, profitability, growth rate, and financial strength. Companies that meet the defined criteria are then evaluated through deep fundamental research, which includes meetings with management, suppliers, competitors, as well as government regulators. The team builds proprietary models on each company and stresses the use of discounted cash flow analysis. The team also incorporates external sources of information such as Factset, the International Monetary Fund, World Bank research, as well as research from the sell side community for additional perspectives.

Overall, the team has demonstrated a comprehensive understanding of the companies in the portfolio and how each company compares to competitors within its respective industry. Furthermore, the portfolio managers and analysts are thorough and meticulous in their research.

	Rating Decile	Weight
III. Forecasting	1st	20%

The team excels in its forecasting approach, which is titled Quality at a Reasonable Price ("QuaRP"). In order for companies to be considered as a candidate for research, they need to exhibit a strong track record in operations for 3-5 years, return on invested capital greater than 12%, growth rates above 5%, and debt/equity less than 75%. The philosophy of the teams favors companies that grow organically through reinvestment in the business versus serial acquirers. The team fundamentally evaluates securities using common financial metrics such as PEG ratios, EV/EBITDA, and EV/Invested Capital, and complements this with discounted cash flow analysis to arrive at a price target for each company. The triangulation of multiple valuation methods provides a sanity check to the inherent assumptions to any one approach.

The team has demonstrated an ability to consistently add value through security selection, independent of its value added through biases in market capitalization and resulting country/sector bets. Although the forecasting approach itself is not unique in nature, the screening methodology and discipline in setting price targets leads to a strong forecasting approach.

	Rating Decile	Weight
IV. Portfolio Construction	1st	20%

The team builds portfolios of approximately 50-70 securities, with position sizes ranging from 1% to 5%, and the top ten positions make up approximately 30% of the total portfolio. The portfolios are constructed from the bottom-up, but have some country and sector constraints (+/- 15% of the index weights). While the firm's International Equity strategy is a true all-cap strategy, the International Large Cap product is limited to securities above \$2.5B. The team does not use any formal methods of optimization and maintains considerable latitude to move up and down the market cap spectrum and across countries/sectors. The portfolio manager employs BARRA for risk management however, and is very conscious of the risk in portfolio and tracking error. Tracking error for this strategy is predicted to 4-7% over a market cycle. Portfolios will maintain up to 20% exposure to emerging markets. The team has sufficient risk controls in place and the portfolio manager is very conscious of the portfolio's structure as well as exposures to macro factors such as interest rate exposure.

	Rating Decile	Weight
V. Implementation	1st	10%

Neuberger Berman has a centralized trading desk comprised of 11 traders. ITG's Macgregor XIP Order Management System is used to route orders to the Equity Trading Desk from the investment team. Portfolio administrators stand ready to enter pre-allocated orders in the system and electronically route those orders to the trading desk. The Macgregor XIP Trading Platform is used to identify any trading restrictions prior to execution. ITS order formulation sub-system checks are conducted before any execution to ensure compliance and that these trades meet client guidelines. The firm's Asset Management Guideline Oversight (AMGO) group serves as an independent supervisory entity responsible for ensuring portfolios are managed in accordance with client investment guidelines. AMGO is managed by Stephen Wright and supported by eight additional team members located in New York and Chicago. The firm utilizes its proprietary Portfolio Management Reporting as its multi-currency portfolio accounting system. Trading costs are measured via ITG's Transaction Cost Analysis (TCA) system to evaluate the execution quality across a variety of industry benchmarks on a T+1 basis. Neuberger Berman is GIPS compliance and was last verified by Ernst & Young for 2010. The firm pays soft dollars for research products, but does not release the percentage of commissions tied to soft dollar arrangement as they deem this proprietary to the firm. Overall, the firm maintains a fine trading platform that allows for good execution of the emerging markets strategy.

Neuberger Berman

International Select

Rating Decile	Weight
1st	10%

VI. Attribution

The international equity team excels in performance attribution. The team has a number of systems in place to monitor the risk budget, perform multifactor attribution, as well as variance analysis. Specifically, the firm uses both BARRA and FactSet for performance and risk attribution, which is also incorporated as part of the portfolio construction process.

	Rating										
Decile	1	2	3	4	5	6	7	8	9	10	
Corresponding Grade	A		B			Proprietary and Confidential		D		F	

Neuberger Berman

International Select

Firm Information

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Manager Research

Northern Trust

NT Quality Small Cap Value Strategy

Rating Decile	Weight
4th	100%

Summary

Northern Trust offers a quantitative Small Cap Value strategy which is broadly diversified by number of holdings (400-600) and remains largely sector neutral which allows for stock selection to drive the alpha potential of the strategy. The strategy is led by Robert Bergson, who has managed the product since 2001. The quantitative platform is much more simplistic and subjective than many of its quantitative peers; however the process has historically led to a high level of repeatability as well as the ability to focus on minimizing transaction costs. The strategy has a long-term holding period with annual turnover of around 20-30%. The strategy tends to offer strong downside protection given its quality focus but has produced competitive investment results in a variety of market environments. Overall, the strategy is suitable for investors that are looking for a diversified, low turnover quantitative strategy which has historically produced attractive risk-adjusted returns.

Rating Decile	Weight
5th	20%
6th	50%
4th	50%

I. Organization

<i>Firm</i>	6th	50%
<i>Team</i>	4th	50%

Northern Trust Investments is a wholly-owned subsidiary of Northern Trust Corporation. Northern Trust was founded in 1889 and is headquartered in Chicago, IL. The parent company is a publicly traded firm that trades on the NASDAQ under ticker symbol NTRS. Approximately 5% of the corporation is held by active employees, directors, and retirees of the organization. Northern Trust offers equity, fixed income, and multi-manager solutions with meaningful AUM dedicated to passive investment strategies. The organization has built a solid reputation for custodial services and transition management.

Investment professionals are compensated through base salary, a special incentive plan, and other special investment programs. Incentive payments are based primarily on the group's short-term and long-term investment performance, in addition to client retention and revenue targets.

The management of the Small Cap Value product resides within Northern's Global Quantitative Active Equity Team which reports directly to the Head of Global Equity, Matthew Peron. The team is primarily responsible for managing the Small Cap Value, Small Cap Core, and International Small Cap strategies using the same quantitative investment philosophy. The team primarily consists of 5 individuals with Robert Bergson focusing on small caps since 1999 and leading the Small Cap Value effort since 2001. He is assisted by Senior PMs, Sri Kancharia and Mark Sodergren, as well as PM, Reed LeMar, and Associate PM, Steven Wang. The team is also able to leverage the firm's quantitative research group which is headed by Michael Hunstad, PhD. Mr. Hunstad replaced Joe Wolfe, who departed the organization during 2011.

While the overall Northern organization has experienced some personnel turnover over the years, the portfolio management team responsible for this strategy has been relatively stable. Mr. Bergson has managed this strategy for the past 15 years and brings meaningful leadership and continuity to the team. However, it should be noted that the overall size and talent level dedicated to quantitative active equity strategies is modest relative to peers.

Northern Trust

NT Quality Small Cap Value Strategy

Rating Decile	Weight
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II. Information

5th	20%
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The philosophy of the team is that a quantitative approach to portfolio management is the best way to consistently take advantage of investors' behavioral biases and the resulting inefficiencies within the small cap market. Thus, the team employs a systematic approach of gathering common, publicly available information from multiple external sources, including IBES, First Call and Bloomberg. The quant research team uses this information as inputs into the firm's multi-factor model to produce unique alpha scores that are binary in nature. The model is relatively simplistic and incorporates a small qualitative component to ensure data integrity. The portfolio managers typically conduct a brief check on the back end to look for corporate actions or other events that the quant model would not have identified. The overall model relies upon publicly available information and incorporates widely recognized quantitative factors within it which ultimately leads to an average information score.

Rating Decile	Weight
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III. Forecasting

3rd	20%
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The quantitative model begins with 5 equally weighted binary factors to rank the stocks within each sector in its investable universe. Within valuation, the team looks for high earnings and book yields (low P/E and P/B). The momentum factor looks at a 2-year momentum figure, which is somewhat unique as other strategies that use momentum factors typically use 1-year (or shorter) timeframes. However, the team is in the process of evaluating whether a 1-year momentum factor is more appropriate. The profitability factor considers both trailing and forecasted earnings (positive earnings are required to score well in this factor). Within each factor, the outliers of each distribution are also eliminated (e.g., quintiles 1 and 5 for the valuation factors) in an effort to reduce the most extreme data within each respective factor. The cumulative binary scores are added together and the top and bottom 30% of companies in the rankings are considered "buy" and "sell" rated, respectively.

A three-factor Quality "Distress" Overlay is next applied. To determine the level of a company's distress, the team looks at earnings quality (cash flow based metrics), sources of financing, and efficiency (margins of a business). The Quality "Distress" overlay can immediately downgrade a "buy" to a "hold", and a "hold" to a "sell". Thus, companies with distress ratings are not purchase candidates, which results in a higher quality portfolio.

Once the model outputs are known, the team manually eliminates the lowest ranked companies and purchases the highest ranked stocks in each sector on a cap weighted basis with an eye towards portfolio guidelines, desirable portfolio characteristics, and minimizing the impact of transaction costs. The model is executed quarterly and the trading team is given discretion and is extremely patient in their implementation efforts in order to reduce turnover and transaction costs. Overall, the team's approach to forecasting is relatively simplistic. However, the strategy has produced very competitive and consistent investment results relative to both the Russell 2000 Value Index as well as the peer group on a risk-adjusted basis.

Rating Decile	Weight
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IV. Portfolio Construction

2nd	20%
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Portfolio construction is a competitive advantage for this strategy. The buy and sell universes are very clear as they are completely dependent on the model rankings (stocks ranking in the top three deciles are purchase candidates while stocks in the bottom three deciles are sell candidates). In addition, the team will sell stocks once they become too large in market cap or when they become financially distressed. Individual stocks and sectors are both constrained to +/- 200bps from the benchmark weights, so the portfolio will closely follow the index from those perspectives. Stocks on the buy list are cap weighted with the benchmark such that larger holdings in the index will consequently result in larger holdings in the portfolio. The resulting portfolio is extremely diversified and typically holds 400-600 stocks and remains fully invested. The team utilizes linear optimization as opposed to quadratic optimization as the portfolio managers are somewhat cautious regarding the inputs within backward looking risk/optimization tools. Qualitative overrides by the portfolio managers can occur; however this is largely done to reduce specific risk exposures within the portfolio.

The portfolio tends to have higher margins/profitability (ROE, ROA), lower debt ratios, and modestly lower volatility relative to the benchmark. The weighted average market cap tends to resemble the Russell 2000 Value Index, but will likely have lower exposure in the more illiquid, smaller cap area of the benchmark. Tracking error has generally ranged between 2-4% historically. Overall, Northern Trust offers a highly diversified, risk controlled, quantitative, small cap value strategy.

Northern Trust

NT Quality Small Cap Value Strategy

	Rating Decile	Weight
V. Implementation	1st	10%

Implementation is a competitive advantage for this strategy. Given the diversification of the portfolio and the number of “buys” and “sells” that the model produces four times per year, the extremely low expected turnover ratio of 20-30% dictates that the traders are extremely patient and maintain significant discretion in their execution. Traders are willing to wait for the market to come to them and absorb excess liquidity in the market, serving more as a market maker or liquidity provider in many circumstances. They also utilize a variety of channels, taking advantage of both principal and agency trades in addition to heavy use of ECNs to keep commission costs minimal. In addition, the firm actively measures transaction costs to gain insight into how well the process is working. Overall, the team is focused on minimizing total portfolio transaction costs and has structured the entire investment process in such a way that trading can add value relative to peers. Total capacity for the strategy is expected to be in the \$4-5B range.

	Rating Decile	Weight
VI. Attribution	2nd	10%

The team uses attribution heavily to accurately pinpoint sources of return. They use both external and internal systems to break down performance at the stock/sector level in addition to the factor level. This focus on gaining a clear understanding on what is driving portfolio performance earns the strategy an above average score in this area.

	Rating										
Decile	1	2	3	4	5	6	7	8	9	10	
Corresponding Grade	A		B			C		D		F	

Northern Trust

NT Quality Small Cap Value Strategy

Firm Information

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Manager Research

Pacific Investment Management Company LLC (PIMCO)

Short Term Full Authority

Rating Decile	Weight
4th	100%

Summary

PIMCO's investment process is keyed off the Global Secular Forum discussion, where investment professionals debate the economy's underlying risks, and forecast turning points. With its top-down macro approach and its in-depth bottom-up security selection process, strategies are constructed to express PIMCO's best ideas.

The Short-Term fixed income mandates are benchmarked to the Citi 3-Month US Treasury Bill Index with the expectation of generating 35-60 bps of alpha with 35-60bps of tracking error. Portfolio durations usually range from 0-1 year, and the Full Authority accounts can invest up to 10% in below-investment-grade securities with minimum rating of B. Non-USD (max 10%) and foreign currency exposure (max 20%) can also be utilized in accounts with more liberal guidelines.

Rating Decile	Weight
6th	30%
7th	50%
5th	50%

I. Organization

Firm

Team

Founded in 1971 as a subsidiary of Pacific Mutual, now Pacific Life, PIMCO has operated as an independent entity since 1982. In 2000, German financial services multinational, Allianz purchased the majority stake of PIMCO Advisors LP, the parent of PIMCO LLC.

Since 2010, many high profile personnel and material investment committee members have left PIMCO. Those include Changhong Zhu ('10-Derivatives), Paul McCully ('11-Econ), Neel Kashkari ('13-GlobEqty), Chris Dialynas ('14-Unconst Bond PM), Marc Seidner ('14-IG Credit), Ramin Toloui('14-EM) and Mohamed El-Erian ('14-CEO/co-CIO). The most notable and surprising was Bill Gross' abrupt departure and move to Janus ('14- Founder/CIO).

Nevertheless, PIMCO does have a deep bench of investment professionals and the firm can still attract industry talents. Paul McCulley returned in May 2014 as a part time Chief Economist and left again in February 2015. Marc Seidner and Jeremie Banet rejoined the firm in November 2014, having left earlier that year. This is not an exhaustive list as there continues to be high profile personnel departures including Saumil Parikh, Unconstrained PM, and Virginie Masionneuve, CIO Global Equities, in early 2015. Additionally, the firm implemented a CIO system with Group CIO, Dan Ivascyn, and five sector specific CIOs.

Also, in August 2015 the firm received a Wells notice relating to the ETF BOND. Then in November 2016 Manny Roman was hired from Man Group as the firm's new CEO, with Doug Hodge taking an advisory role. Wilshire is hopeful that this addition is a positive step forward in stable management of the firm going forward but we have reservations on a new leader joining from outside and how that may play out. Wilshire continues to monitor the firm for stability and any notable impact to the investment style but at present, uncertainties are plentiful.

PIMCO employs a hub and spoke system. The Investment Committee (IC) is considered the "brain" of the organization, consisting of permanent and rotating members. They determine top-down, global macroeconomic directions for all firm's strategies. These members sit on the trading floor, and are also responsible for the day-to-day management of strategies. Sector specialists and research analysts construct specific portfolios according to guidelines, and select individual securities. Bonuses are based on contribution to investment process, client retention, portfolio consistency, relative performance, and peer comparison. This organizational structure has been refined over the years.

PM Jerome Schneider has been actively involved in the management of Short-Term strategies since 2008.

Pacific Investment Management Company LLC (PIMCO)

Short Term Full Authority

Rating Decile	Weight
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II. Information

1st	17.5%
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The firm's internal analyses, coupled with external inputs, provide breadth and depth to its research. The data warehouse infrastructure ensures efficient communication of research and information.

PIMCO devotes significant resources to gather, compile, and process information; thus it has established one of the top proprietary analytic and data distribution systems among its peers. As a large consumer of external data, PIMCO has access to numerous sources. It uses these sources both as a sounding board against their own independent research, as well as to develop and improve internal models. Credit analysts supplement external data with independently acquired information. Sources include qualitative information from industry roadshows and on-site conversations with senior company management. An extensive warehouse centralizes data from internal and external sources. PIMCO maintains a library of information to support security evaluation, risk monitoring, and research distribution.

Rating Decile	Weight
---------------	--------

III. Forecasting

3rd	17.5%
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PIMCO employs a hub and spoke system. The Investment Committee (IC) is considered the "brain" of the organization, consisting of permanent and rotating members. Every May, PIMCO conducts a week-long Secular Forum to construct a three-to-five year outlook on fiscal and monetary policies, inflation, demographics, trades, and other factors that impact the global economy. Investment professionals together with external speakers present secular topics. The Forum serves as a backdrop for information exchange and debate, providing PIMCO's investment professionals with insights to form their economic outlooks. The firm also conducts quarterly Economic Outlooks that forecast economic growth and inflation over six-to-nine month periods. Regional teams from North America, Europe, Japan, and Emerging Markets discuss their research and compare which regions will exceed or fall short of market expectations.

PIMCO's financial engineering team has internally developed over 30 models to identify relative values. But the firm does not employ a black box approach. Rather than relying purely on derived values, the portfolio managers are also expected to use their own experience and judgment, evaluating the data to choose worthy trading opportunities.

Rating Decile	Weight
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IV. Portfolio Construction

5th	17.5%
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The model-portfolio approach provides consistency across all accounts and explicitly expresses the team's strategies. However, it should be noted that usage of derivatives, large out-of-benchmark holdings, and sometimes more-aggressive-than-peers investment style could lead to larger variance versus the benchmark and return volatility.

Portfolio construction begins with a model portfolio. Macro themes are drawn from the Global Secular Forum and the Quarterly Economic Outlook. With a team approach, the Shadow Investment Committee, regional teams, and specialty desks set targets on duration, yield curve, convexity, sector concentration, and credit quality for the specific strategies. The model portfolio is built with all these inputs. Generalist portfolio managers, however, have some leeway to tilt their responsible portfolios toward or away from the model portfolio based on their own insight and research. Generalist and Specialist Portfolio Managers then perform security selection and implement the strategies.

Because of PIMCO's large asset base, it is difficult to invest in less liquid securities and markets; thus derivatives are widely employed to gain duration, sector, and security exposures. CDS, currency futures, interest-rate futures, and total return swaps are the common instruments used in building portfolios. Since these instruments don't always track their respective underlying securities, large variances have been observed from time to time; hence, volatilities are enlarged as a result. The Short-Term track records exhibited PIMCO's value-added through a cycle; however, there have been times non-traditional instruments and riskier-than-normal strategies were employed, making the product a bit more aggressive than the usual risk taking investors are comfortable with for short-term strategies.

The Short-Term fixed income mandates are benchmarked to the Citi 3-Month US Treasury Bill Index with the expectation of generating 35-60 bps of alpha with 35-60bps of tracking error. Portfolio durations usually range from 0-1 year, and the Full Authority accounts can invest up to 10% in below-investment-grade securities with minimum rating of B. Non-USD (max 10%) and foreign currency exposure (max 20%) can also be utilized in accounts with more liberal guidelines.

Pacific Investment Management Company LLC (PIMCO)

Short Term Full Authority

Rating Decile	Weight
---------------	--------

V. Implementation

4th	8.8%
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PIMCO's internal systems helped the firm effectively implement and control its strategies despite substantial growth. Depending on the experience level, Generalist or Specialist Portfolio Managers execute trades. All block trades are allocated on a pro-rata basis. The firm analyzes trade allocation three times a year to determine whether it helped or hurt a portfolio. Trading costs average 0.125% or less expressed as bid/ask spread. Internal systems allow transparency necessary for the entire investment team to monitor portfolios. The Chief Risk Officer sits on the trading floor allowing quick and easy interaction with portfolio managers to ensure portfolios remain within the direction of the model portfolio.

Capacity and liquidity risks are a concern as the firm is one of the largest fixed income managers in the world. Derivatives are used to improve liquidity and obtain exposures. Performance and portfolio-holding dispersions warrant attention given the vast size variance between small separately-managed accounts (usually with a minimum of \$75 million) and large commingled products (in the billions).

Mr. Gross' departure raises the concern of potential outflows from the fund and the impact to performance that may have. Mutual fund performance may be more impacted than separate accounts due to the downward pressure outflows have on a fund.

Rating Decile	Weight
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VI. Attribution

1st	8.8%
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PIMCO's risk management and attribution tools are state-of-the-art and continuously evolving.

PIMCO constantly develops extensive tools and analytic software for security modeling and risk management. These tools enable the investment team to effectively monitor portfolios and decompose performance across multiple dimensions. Internal systems consistently revalue securities versus potential investments for relative attractiveness. PIMCO can quickly identify risks as well as seek opportunities due to its ability to both analyze a portfolio as a whole and drill down to the individual security level.

Decile	Rating									
	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B		Proprietary and Confidential		D		F	

Pacific Investment Management Company LLC (PIMCO)

Short Term Full Authority

Firm Information

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Manager Research

T ROWE PRICE ASSOCIATES INC

T Rowe Price Balanced Fund, Inc

Rating Decile	Weight
1st	100%

Summary

T. Rowe Price offers an attractive balanced fund that is risk-controlled with an approximate target of 65% Equity/35% Fixed Income exposure. The portfolio is split into several different sleeves, each of which is managed by senior investment professionals that have delivered strong long-term performance in their stand-alone strategies. The firm's Asset Allocation Committee has the latitude to tweak the fund's positioning around the target weights, but this is performed in a very risk-controlled incremental manner as the Committee does not attempt to time the market. Compared to some of the firm's other multi-asset class strategies which can be more opportunistic, the Balanced Fund seeks to serve as a core holding with relatively low tracking error. Overall, the fund has produced competitive investment returns with relatively low tracking error to the fund's custom benchmark over long-term periods.

Rating Decile	Weight
1st	20%
1st	50%
1st	50%

I. Organization

<i>Firm</i>	1st	20%
<i>Team</i>	1st	50%

Founded in 1937, T. Rowe Price represents one of the largest multi-product investment management firms with a significant presence in both the institutional and retail mutual fund markets. The firm has a diverse product lineup which includes equity, fixed income, and asset allocation capabilities. T. Rowe Price has built a global research platform with investment professionals located in various offices around the world. Approximately 80% of the firm's employees are shareholders in the company and combined with vested but unexercised options own approximately 15-20% of the firm's publicly traded equity (TROW). The firm has established a competitive franchise in both investment management and distribution due to its conservative culture and high emphasis on fiduciary standards.

T. Rowe Price has developed a good reputation for recruiting and retaining talented investment professionals throughout the organization. In terms of compensation for investment professionals, the firm provides a modest base salary and a performance bonus that can be multiples of the base salary. The firm also offers stock options and restricted stock to certain investment and key senior professionals. Restricted stock and options vest over a five-year period. Bonuses are tied closely to performance for both portfolio managers and research analysts, with an emphasis on three- and five-year relative and risk-adjusted results.

The Balanced Fund is managed by Charles Shriver who has been with T. Rowe Price since 1991. Mr. Shriver became co-PM of the fund effective May 1, 2011 and became lead PM during October 2011 as part of a planned transition from the previous PM, Ned Notzon, who retired at the end of 2011. Mr. Shriver had worked closely with Mr. Notzon for more than 15 years on the firm's asset allocation capabilities prior to taking over as PM of the strategy.

The fund is split into several investment sleeves, each of which is managed by an experienced portfolio manager. The equity allocation is divided into five sleeves, which are managed by Ann Holcomb, Jason Polun, Thomas Watson (core), Larry Puglia (growth), Mark Finn (value), Ray Mills (non-U.S.) and Wyatt Lee (real assets); and the fixed income allocation includes two sleeves, which are managed by Rob Larkins (investment grade bond) and Mark Vaselkiv (high yield). In addition, the firm's Asset Allocation Committee, which is comprised of over 10 of the firm's senior investment professionals, assist with portfolio positioning. The firm also boasts a deep team of analysts within both equity and fixed income. Compared to other large firms with deep analyst staffs, the firm has experienced a small amount of turnover, which is a testament to the organization and the investment culture.

Overall, this product receives a strong score from an organizational perspective. The quality and stability of the various product teams are top-notch, and the ownership incentives are stronger than most peers. The firm is strongly committed to both the retail and institutional marketplaces and has a consistent valuation-conscious theme across the entire organization.

T ROWE PRICE ASSOCIATES INC

T Rowe Price Balanced Fund, Inc

Rating Decile	Weight
1st	20%

II. Information

Information gathering for the Balanced strategy starts with the impressive analyst staff the firm has assembled in both equity and fixed income. T. Rowe currently employs over 200 Equity and Fixed Income analysts. Throughout the firm, bottom-up fundamental analysis is the key to the philosophy and process. Equity analysis typically focuses on balance sheet strength, sound operations, and a management team that is capable of executing a focused business strategy. Each analyst covers 30-50 companies and conducts multiple face-to-face meetings with the company, including on-site visits which forms the core of the research process. Fixed income analysts have access to the research produced by the firm's equity research staff and often travel with the equity analysts to take part in the on-site company visits. Contact with an issuer is maintained throughout the life of the investment to continue to assess potential shifts in earnings and/or cash flow.

Overall, T. Rowe Price possesses a very strong information gathering effort grounded in direct first-hand research revolving around direct contact with company management. As a result, the firm scores high in information gathering.

Rating Decile	Weight
1st	20%

III. Forecasting

The forecasting process for the Balanced fund is twofold: asset allocation and sleeve-specific security selection. The "neutral" asset allocation for the firm is 65% equity (US, Non US, and Real Assets), and 35% fixed income (including High Yield). The firm's Asset Allocation Committee has latitude to tilt the portfolio +/- 10% around these neutral allocations (though rarely exceeds 5-6%) and also can tilt the portfolio modestly toward growth or value. The Committee meets each month to discuss the market environment and determine which segments of the market offer the most attractive risk/reward potential. Much of the positioning changes stem from relative value analysis.

Each of the fund's investment sleeves has a different approach to security selection and alpha generation. The large cap value portfolio looks for stocks trading at the low end of their historical range versus the overall market and that possess a catalyst for revaluation. The large cap growth sleeve is GARP-y in approach and looks for large, stable, blue chip companies trading at a discount to intrinsic value. The large cap core sleeve is run by the firm's analysts and is enhanced index in approach - looking to add modest value versus the market solely through security selection. The international piece of the fund uses a core approach with a conservative usage of emerging markets. The investment grade fixed income portion of the fund takes very small bets against the BarCap Aggregate Bond index and aims to add incremental value over the index. Finally, the high yield portfolio is based on in-depth credit analysis and uses a proprietary rating system to forecast future returns with a focus on the B/BB space. As a more recent enhancement, the team initiated an allocation to Real Assets to improve the real risk and return profile in scenarios of high or rising inflation.

Overall, the forecasting process is disciplined and intuitive, and each of the underlying product teams have demonstrated the ability to add value over the long-term. For these reasons, the fund scores above average in forecasting.

Rating Decile	Weight
2nd	20%

IV. Portfolio Construction

Portfolio construction is another strong aspect of this fund. While the Asset Allocation Committee has the latitude to tilt the portfolio toward what they deem to be particularly attractive asset classes or styles, they do so in small incremental steps that ensures security selection is the main driver of relative performance. The Committee meets each month to review portfolio positioning and assess the risk of the portfolio. The "neutral" asset allocation for the firm is 65% equity (43.5% US, 18% Non-US, and 3.5% Real Assets), and 35% fixed income (31% Investment Grade, 4% High Yield). The portfolio will have modest (up to 6-7%) exposure to emerging markets through the non-US sleeve. Relative to this fund's custom benchmark (45% S&P 500, 20% MSCI EAFE, 35% BarCap Aggregate Bond), the tracking error of the portfolio has historically been relatively low. Overall, the product scores above average in portfolio construction.

T ROWE PRICE ASSOCIATES INC

T Rowe Price Balanced Fund, Inc

	Rating Decile	Weight
V. Implementation	5th	10%

T. Rowe Price has considerable resources for equity and fixed income trading, where most of the traders have significant trading backgrounds and experience. The firm has invested heavily in trading systems, using Charles River for automated pre-trade compliance monitoring and order management. The overall trading philosophy emphasizes below average turnover, which cuts down on transaction costs and market impact. However, AUM across the firm and especially within domestic equity is extremely high, so the product may not be as nimble as some of its peers. The firm does use soft dollars, but they are used in a very limited capacity and must undergo full review by the firm's Brokerage Control Committee. Overall, because of the firm's significant AUM in domestic equity, the product receives only an average implementation score.

	Rating Decile	Weight
VI. Attribution	3rd	10%

T. Rowe Price has developed an in-house performance attribution system that allows the team to capture the sources of returns for this fund at each level of portfolio construction: asset class decisions, sector/industry decisions, security selection, and rebalancing. The output of this attribution is reviewed by the allocation committee on a monthly basis to help inform the team's positioning and rebalancing decisions. Overall, the firm's use of attribution is very solid and receives an above average score.

	Rating									
Decile	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B		C		D		F	
	Proprietary and Confidential									

T ROWE PRICE ASSOCIATES INC

T Rowe Price Balanced Fund, Inc

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Manager Research

T. Rowe Price

QM US Small-Cap Growth Equity Strategy

Rating Decile	Weight
3rd	100%

Summary

T. Rowe Price's QM Small Cap Growth strategy provides clients with a diversified, lower tracking error small cap growth mandate. The strategy typically holds 300-320 stocks and annual portfolio turnover has been low at 15-30%. The product incorporates a quantitative investment model with the firm's broader fundamental research resources. The quantitative model ranks stocks on a variety of factors, including valuation, profitability and capital usage, earnings quality, and momentum. While this strategy is not as large as the firm's other small cap growth strategies, there is notable overlap in names. The firm has over \$20 billion in assets under management within its small cap growth products and all products, including the QM Small Cap Growth strategy are now essentially closed to new investors.

Rating Decile	Weight
1st	20%
1st	50%
1st	50%

I. Organization

<i>Firm</i>	1st	20%
<i>Team</i>	1st	50%

Founded in 1937, T. Rowe Price represents one of the largest multi-product investment management firms with a significant presence in both the institutional and retail mutual fund markets. The firm has a diverse product lineup which includes equity, fixed income, and asset allocation capabilities. T. Rowe Price has built a global research platform with investment professionals located in various offices around the world. Approximately 80% of the firm's employees are shareholders in the company and combined with vested but unexercised options own approximately 15-20% of the firm's publicly traded equity (TROW). The firm has established a competitive franchise in both investment management and distribution due to its conservative culture and high emphasis on fiduciary standards.

T. Rowe Price has developed a good reputation for recruiting and retaining talented investment professionals throughout the organization. In terms of compensation for investment professionals, the firm provides a modest base salary and a performance bonus that can be multiples of the base salary. The firm also offers stock options and restricted stock to certain investment and key senior professionals. Restricted stock and options vest over a five-year period. Bonuses are tied closely to performance for both portfolio managers and research analysts, with an emphasis on three- and five-year relative and risk-adjusted results.

The QM Small Cap Growth strategy is managed by Sudhir Nanda, who is also the Head of Quantitative Equity Research for T. Rowe Price. While Mr. Nanda is responsible for all investment decisions, he collaborates with the other members of the strategy's Investment Advisory Committee, which includes Don Easley, Curt Organt, and David Wagner. On a day-to-day basis, Mr. Nanda is supported by nine quantitative analysts: Prashant Jeyaganesh, Vidya Kadiyam, Farris Shuggi, Vinit Agrawal, Navneesh Malhan, Erik von Heijne, Jordan Pryor, George Gao, Ph.D., and Yuyuan Zhu, Ph.D.. This team has grown considerably over the past few years, with Mr. Gao and Mr. Zhu being notable recent additions. Mr. Nanda also utilizes the resources of the firm's stable of over 100 industry analysts.

T. Rowe Price

QM US Small-Cap Growth Equity Strategy

Rating Decile	Weight
4th	20%

II. Information

The QM Small Cap Growth Fund adheres to a quantitative investment approach; however, the fundamental analysis conducted by the firm's vast research platform supports the quantitative research. The quantitative model receives data from outside vendors and stresses common factors such as free cash flow yield, forward P/E, and EV/EBITDA. In terms of fundamental research, the firm's sector-specific analysts conduct over 5,000 on-site visits a year and complement these visits with telephone conversations, participation in conference calls, and attending industry and investment conferences. In addition, the firm hosts over a 1,000 company meetings in their offices annually. The analysts primarily meet with senior- and mid-level managers but will also meet with competitors and various stakeholders up and down the supply chain to truly assess a company's position in the marketplace. During these visits, the analysts focus on gathering information about the viability and sustainability of a company's business model; the quality of the management team and alignment of interests with shareholders; and the company's financial position as well as the drivers and obstacles to continued financial success. Each of the firm's analysts are responsible for creating 3-5 year forecasts for 25-40 companies and for issuing a 1-5 rating on each company falling under their coverage. The firm has deepened its quantitative resources in recent years and the support of the firm's strong fundamental research platform brings the score in this category to above average.

Rating Decile	Weight
1st	20%

III. Forecasting

The strategy primarily invests in small cap growth companies that fall within the market capitalization range of the MSCI US Small Cap Growth Index. The investment process incorporates quantitative analysis with a fundamental overlay. The majority of the process uses quantitative methods to identify and rank stocks based primarily on factors in four broad categories:

- Valuation - (free cash flow yield, forward P/E, EV/EBITDA, etc.)
- Profitability and Capital Usage - (high ROE, efficient capital expenditures, stock buy backs and dividend policy, etc.)
- Momentum - (price momentum, earnings revisions, etc.)
- Earnings Quality - (cash flow exceeds income, increase in current assets is not excessive, etc.)

The model ranks stocks from 1 to 10. Stocks rated 1-3 are purchase candidates, with stocks rated 6-10 being sell candidates. Ranking is performed daily, with the model producing a list of potential buys and sells. Prior to purchasing a name, PM Sudhir Nanda will evaluate the research conducted by the firm's fundamental analysts. Mr. Nanda will also discuss individual names with the firm's other small cap portfolio managers.

The strategy adheres to a well-structured investment process. The trailing five- and three-year relative performance of the product has been favorable, with stock selection being the primary contributor to performance. The strategy has historically maintained a higher market cap orientation than other small cap growth strategies. This has benefitted recent performance, but it can negatively impact performance when smaller cap names are outperforming.

Rating Decile	Weight
4th	20%

IV. Portfolio Construction

The objective of the QM Small Cap Growth Fund is to outperform the MSCI Small Cap Growth Index, with a moderate to low tracking error of 2-3%. The portfolio is highly diversified, typically holding between 300-320 stocks. Individual positions are typically capped at 1%. The portfolio is broadly sector neutral, with the goal of adding alpha primarily through stock selection. It is important to note that the strategy will maintain a slightly higher market cap orientation than many peers within the small cap growth space.

In terms of risk management and portfolio monitoring, TRP utilizes tools such as Barra Aegis, StyleADVISOR, and a reputable third party attribution system to regular monitor tracking error and other portfolio characteristics. While this strategy is not as large as the firm's other small cap growth strategies, there is a significant overlap in names. Capacity management should be monitored closely as assets between the small cap growth strategies are over \$20 billion.

T. Rowe Price

QM US Small-Cap Growth Equity Strategy

	Rating Decile	Weight
V. Implementation	5th	10%

T. Rowe Price has approximately 25 equity traders with an average of over 15 years of trading experience. The firm utilizes the Macgregor Financial Trading Platform for their order management system and for pre-trade compliance. Once inputted into the system, the trade is placed with a broker via telephone or through one of the over 100 FIX connections on the Macgregor network. To minimize trading costs, T. Rowe searches out alternative pools of liquidity and adapts their style, approach, and venue where appropriate. The firm trades with more than 200 regional and national broker-dealers, including several ECNs and alternative sources of liquidity. The firm internally monitors execution costs and subscribes to ITG for third-party transaction cost analysis. The QM Small Cap Growth Fund has turnover of 15-30% per year, which is low relative to its peer group. While T. Rowe Price has impressive trading resources, the significant amount of assets managed by the firm in the small cap growth space presents some challenges. The product receives an average implementation score.

	Rating Decile	Weight
VI. Attribution	3rd	10%

The portfolio management team uses a series of comprehensive, daily, weekly, and monthly reports to monitor the risk factors, style consistency, portfolio characteristics, and to attribute performance of the portfolio. These reports are generated through a combination of internal and external systems, including the Barra Aegis risk model, Zephyr StyleADVISOR, and a reputable third party attribution system. These tools are primarily used to monitor risk factors such as security weights, sector weights, market capitalization, MPT statistics, and valuation measures versus the benchmark. In addition, each analyst is measured on their own predictive capabilities which are used to determine, in part, the compensation of each analyst. Formal risk meetings between the Investment Risk Management Group and portfolio managers typically occur on a monthly cycle (at the portfolio manager's discretion).

	Rating									
Decile	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B			Proprietary and Confidential		D		F

T. Rowe Price

QM US Small-Cap Growth Equity Strategy

Firm Information

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Manager Research

Fort Washington Investment Advisors, Inc.

High Yield Fixed Income

Rating Decile	Weight
3rd	100%

Summary

The High Yield Fixed Income Strategy aims to outperform the Merrill Lynch US Cash Pay High Yield by 50-100 basis points, per annum, over a full market cycle. Fort Washington High Yield is designed for mandates seeking a higher quality bias (no CCC-rated bonds). The product would also be suitable in a broader mandate if paired with another manager that will opportunistically invest in the lower-rated part of the universe. The team targets the highest quality segment of the high yield universe through eliminating risky credits based on industry outlook, macroeconomic and regulatory outlook, and structural avoidance. In general, the process is expected to lead to outperformance in very weak credit environments when default rates spike or spreads widen.

Rating Decile	Weight
2nd	20%
2nd	50%
2nd	50%

I. Organization

Firm

Team

Founded in May 1990, Fort Washington Investment Advisors is a wholly-owned subsidiary of Western & Southern Financial Group (W&SFG). Headquartered in Cincinnati, Ohio, the firm's AUM was over \$43 billion as of 12/31/15. Maribeth Rahe (President & CEO) and Nicholas Sargen (Chief Economist) have been with the firm since 2003 and are responsible for the day to day business and investment operations of the firm. In 2015, Brendan White and Roger Lanham became the Co-CIOs when Steven Kreider decided to take a step back and act as a consultant to the firm. Steven Kredier was hired in 2014 to run the business, but was commuting from the east coast: although the CIO transitions are not positive, we feel the business is in good shape with White and Lanham. W&SFG gives Fort Washington complete operating and investment autonomy; although a five year business plan is reviewed annually by W&SFG to help allocate resources to support the firm's growth.

Compensation includes a base salary, annual performance bonuses, and a long-term incentive plan. Variable compensation for both portfolio managers and analysts comes in the form of cash bonuses based on performance of individual stock picks relative to their sector, relative performance of the overall team, and performance of the firm. A long-term retention program was established in 2000 and provides key employees with units of W&SFG that cliff vest over 7 years. A defined benefit retirement plan is also available to employees.

Portfolio Manager Brendan White leads the investment team and is supported by an investment team of seven credit analysts and two portfolio analysts. The team usually hires experienced professionals with the interest of being career analysts. The team has historically been very stable, although they recently announced the Q2 2015 departure of Senior Analyst Kevin Seagraves. Fort Washington was able to make an experienced hire to replace Seagraves, hiring Casey Basil in the 3Q2015. The team receives positive marks due to its stability and depth, and the firm benefits from the autonomy and capital commitments given by its parent company.

Rating Decile	Weight
2nd	20%

II. Information

In addition to BB and B names, the team also covers BBB names, giving them a wider breadth of coverage within an industry. About 85% of research is conducted internally as analysts use public information from SEC filings as well as external research from the street to help build their credit models. Communication to corporate management is required at least once a quarter. Over the years, the investment team has established a number of contacts to help them monitor the market and identify good opportunities. The team leverages the firm's equity analysts who provide sector and industry insights regarding a company's management, corporate governance and strategies. The investment grade team at Fort Washington provides valuable macro economic inputs used in industry analysis. Bloomberg and Barclays POINT supply software for portfolio analytics and monitoring. The incorporation of macroeconomic inputs from the investment grade team and the additional data provided by the equity team give the firm above average marks.

Fort Washington Investment Advisors, Inc.

High Yield Fixed Income

	Rating Decile	Weight
III. Forecasting	3rd	20%

Fort Washington employs both macroeconomic and security forecasts when building portfolios. The high yield team develops an economic outlook using the investment grade team's foreca input into their process. The team systematically underweights certain industries that are structurally volatile or are expected to have poor free cash flow generation during economic slowdowns. Credit analysis is focused on how an issuer will perform under stress over a 3 to 5 year time horizon rather than in the near term. Recommendations are evaluated based on a number of inputs without using a scoring system, so the team can concentrate on the qualitative aspects of their research. An assessment of industry dynamics, management quality, capital structure, and liquidity are some factors that are considered. Credit analysts merge their research regarding an issuer's financial strength, liquidity, and covenants with the equity analyst's research concerning management and the overall industry landscape. All recommendations and updates are reviewed by the firm's credit committee which meets twice a week to assure that the philosophy and process are being applied appropriately, and again reviewed before entering the portfolio. The team targets the highest quality segment of the high yield universe through eliminating risky credits based on industry outlook, macroeconomic and regulatory outlook, and structural avoidance. In general, the process is expected to lead to outperformance in very weak credit environments when default rates spike; however, returns have been challenged over the recent market cycle and downside protection has not been as strong as one would expect given the process.

	Rating Decile	Weight
IV. Portfolio Construction	3rd	20%

Between 100 and 120 issuers are used to build a portfolio around macro economic and sector themes to take advantage of the economic cycle. Risk is measured by the product in absolute terms rather than relativity. Sector exposures can run as high as 20% of the portfolio. By appropriately weighting specific issuers, the portfolio manager is able to manage credit risk by limiting securities rated below BB to 2.5% and allowing higher rated names to have a 4% exposure, though exposures are generally between 1% and 1.5%. CCC-rated securities are never considered for purchase, but in the case of downgrades, they can be held based on PM's discretion. The omission of higher yielding CCC bonds tends to create portfolios with lower yields than that of the benchmark, but also presents a lower chance of default. Portfolios are constructed with only cash-pay high yield securities. Out-of-benchmark securities such as emerging market debt, non-dollar, foreign issuers, or bank loans are rarely purchased. The lack of CCCs and the team's willingness to invest in BBB names will lead the strategy to deviate from the broader market. Dramatic drops in stock or bond price, changes in management strategy, deteriorating fundamentals, or better relative value opportunities will cause the team to reevaluate the bond before deciding to sell. Through structural avoidance of riskier securities and careful position sizing, the team takes a thoughtful approach to constructing portfolios. Portfolio construction rates slightly above average.

	Rating Decile	Weight
V. Implementation	3rd	10%

Trading is handled by the dedicated trader, Matt Jackson. Bloomberg trade order management systems are used to allocate trades and also serves as a pre-trade and post-trade compliance system for the investment team. The firm conducts periodic reviews of brokers to assess quality of executions, commission rates and overall relationships. As the team wants to keep portfolios concentrated enough to add value from credit selection, the High Yield strategy is subject to a capacity cap of 1% of the high yield market (approximately \$15 billion as of 12/31/15). Current AUM is \$5.7 billion. Overall, the firm receives an above average score in implementation due to their recognition of its liquidity conditions as well as its broker review program.

	Rating Decile	Weight
VI. Attribution	3rd	10%

The team has a risk officer who oversees performance result on a daily basis. The team uses Eagle Pace to analyze performance relative to its peers and benchmarks. Detailed attribution studies can be generated on a timely manner where portfolio managers review them to assess the success of their security selections, quality of over/underweights, and sector tilts. As a result the product is rated above average versus its peers.

	Rating									
Decile	1	2	3	4	5	6	7	8	9	10
Corresponding Grade	A		B		Proprietary and Confidential		D		F	

Fort Washington Investment Advisors, Inc.

High Yield Fixed Income

Firm Information

Fort Washington Investment Advisors, Inc.

303 Broadway
Suite 1200
Cincinnati, OH-45202

FIRM FOUNDED: 1990

OWNERSHIP : Wholly Owned Subsidiary
100% Western & Southern Financial Group

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Manager Research

T. Rowe Price

US Large-Cap Growth Equity Strategy

Rating Decile	Weight
2nd	100%

Summary

The T. Rowe Price US Large-Cap Growth strategy is one of three large cap growth strategies offered by the firm. Relative to the firm's other large cap growth offerings, this strategy is more concentrated and has a slightly higher growth profile. The product is currently managed by Taymour Tamaddon, who took over as the lead portfolio manager from Rob Sharps at the end of 2016. Mr. Sharps transitioned off of the strategy after he was promoted to the role of co-head of Global Equity. Mr. Sharps remains as a member of the Advisory Committee for the Large-Cap Growth strategy. The product leverages the insights of the firm's other large cap growth portfolio managers and deep research analyst platform. The investment process results in a moderately diversified portfolio of 50 to 70 stocks, with annual turnover ranging between 50% and 70%.

Rating Decile	Weight
1st	20%
1st	50%
1st	50%

I. Organization

<i>Firm</i>	1st	20%
<i>Team</i>	1st	50%

Founded in 1937, T. Rowe Price represents one of the largest multi-product investment management firms with a significant presence in both the institutional and retail mutual fund markets. The firm has a diverse product lineup which includes equity, fixed income, and asset allocation capabilities. T. Rowe Price has built a global research platform with investment professionals located in various offices around the world. Approximately 80% of the firm's employees are shareholders in the company and combined with vested but unexercised options own approximately 15-20% of the firm's publicly traded equity (TROW). The firm has established a competitive franchise in both investment management and distribution due to its conservative culture and high emphasis on fiduciary standards.

T. Rowe Price has developed a good reputation for recruiting and retaining talented investment professionals throughout the organization. In terms of compensation for investment professionals, the firm provides a modest base salary and a performance bonus that can be multiples of the base salary. The firm also offers stock options and restricted stock to certain investment and key senior professionals. Restricted stock and options vest over a five-year period. Bonuses are tied closely to performance for both portfolio managers and research analysts, with an emphasis on three- and five-year relative and risk-adjusted results.

T. Rowe offers three different U.S. large cap growth strategies (Growth Stock, Large-Cap Core Growth and Large-Cap Growth). The broader Large Cap Growth PM team consists of Taymour Tamaddon, Larry Puglia, Joe Fath, and David Rowlett. While all research ideas and key information are vetted by the broader PM team, Taymour Tamaddon is currently the named portfolio manager and solely responsible for all investment decisions related to the Large-Cap Growth strategy. David Rowlett, who had been a senior research analyst with the firm, is an associate portfolio manager on the Large-Cap Growth strategy.

The team experienced a significant change when the former lead portfolio manager on the strategy, Rob Sharps, transitioned off at the end of 2016 to join the T. Rowe Price Management Committee and become the co-head of Global Equity. We have met with Mr. Tamaddon several times since the transition and have a favorable opinion of him. Importantly, Mr. Tamaddon worked alongside Mr. Sharps on the strategy in 2016 to allow for a smooth transition period. In addition, Mr. Sharps remains as a member of the Advisory Committee for the Large-Cap Growth strategy.

T. Rowe Price

US Large-Cap Growth Equity Strategy

Rating Decile	Weight
1st	20%

II. Information

T. Rowe's approach to fundamental research encompasses the same degree of Porter's Five Force analysis that other large firms with centralized research groups engage in. The firm's sector-specific analysts conduct over 4,000 on-site visits a year and complement these visits with telephone conversations, participation in conference calls, and attending industry and investment conferences. In addition, the firm hosts over a 1,000 company meetings in their offices annually. The analysts primarily meet with senior- and mid-level managers but will also meet with competitors and various stakeholders up and down the supply chain to truly assess a company's position in the marketplace. During these visits, the analysts focus on gathering information about the viability and sustainability of a company's business model; the quality of the management team and alignment of interests with shareholders; and the company's financial position as well as the drivers and obstacles to continued financial success. Each of the firm's analysts are responsible for creating 3-5 year forecasts for 30-50 companies and for issuing a 1-5 rating on each company falling under their coverage.

Research analysts in the firm can be career analysts and most of them have extensive prior industry experience. T. Rowe's analysts have historically been accurate, which is evident by the strong performance in the U.S. equity products and research portfolios. The portfolio managers' direct involvement with the research effort gives an edge to this product as the growth team does not solely rely on one-way data feeds or recommendations from the analysts. The drawback to this effort is one of information overload where scale of coverage reduces investment focus at the product level. This risk is partially mitigated by the fact that the Large Cap Growth Portfolio Management team primarily relies on 25-40 of the analysts as primary information sources from the 100+ global analyst pool. While there has been some notable turnover over the past couple years, we continue to rank T. Rowe highly in information gathering due to the depth and the breath of the firm's research resources.

Rating Decile	Weight
2nd	20%

III. Forecasting

As with most other growth managers, the team believes that excess returns can be found with companies growing earnings and cash flows at double digit levels. The team looks for that rare opportunity that employs both high earnings growth and strong shareholder return on capital. Relative to the other T. Rowe Price large cap growth products, this strategy tends to be more focused on secular growth stories, particularly within the technology and healthcare space. In addition, the portfolio management team is focused on trading against the short-term momentum crowd within the growth space and is willing to pay higher prices for situations where the growth is viewed as open-ended. The question is whether a company can consistently achieve abnormal earnings growth and to what extent these expectations are already embedded in the stock price. The portfolio managers and analyst team conduct traditional valuation exercises such as DCF and multiples analysis, but a lot of the judgment comes down to perceived disconnects between their models and Street expectations. The portfolio managers will diversify among different types of growth stories so that the portfolio is not just invested in momentum growth. Overall, the forecasting process is ultimately at the discretion of the portfolio manager with inputs from the analyst team on whether premiums are warranted or not. Historical performance attribution shows that value has been added from both stock selection and sector positioning over longer time periods. The process remains consistent under Taymour Tamaddon's management and relative performance remains strong.

Rating Decile	Weight
3rd	20%

IV. Portfolio Construction

The institutional large growth strategy was launched as a means for T. Rowe to target institutional clients who demand more benchmark orientation and a focused portfolio of names. The Large-Cap Growth portfolio holds 50-70 stocks and is managed versus the Russell 1000 Growth Index. Position sizes typically range within plus or minus 5% of the active benchmark weight with sectors constrained to 0.5x to 3x the relative weighting in the benchmark. Active risk is not targeted, but is expected to be in the 4-7% range. From a style perspective the strategy tends to plot in the mid to high end of the growth spectrum and despite the fact that the firm does not use quantitative models for risk control or inputs into its buy/sell decisions, the portfolio maintains similar characteristics relative to the benchmark.

T. Rowe Price

US Large-Cap Growth Equity Strategy

Rating Decile	Weight
5th	10%

V. Implementation

T. Rowe Price has approximately 25 equity traders with an average of 15 years of trading experience. The firm utilizes the Macgregor Financial Trading Platform for their order management system and for pre-trade compliance. Once inputted into the system, the trade is placed with a broker via telephone or through one of the over 100 FIX connections on the Macgregor network. To minimize trading costs, T. Rowe searches out alternative pools of liquidity and adapts their style, approach, and venue where appropriate. The firm trades with more than 200 regional and national broker-dealers, including several ECNs and alternative sources of liquidity. The firm internally monitors execution costs and subscribes to ITG for third-party transaction cost analysis. The Institutional Large Cap strategy has turnover of around 50-70% per year, which is moderate relative to its peer group. The firm has limited use of soft dollars. Overall, T. Rowe employs a state-of-the-art trading desk; however, assets within the large cap growth space (over \$220 billion) are somewhat concerning and the firm has not formally stated an asset limit. The strategy has a fairly high level of overlap with the manager’s two other large growth products, and the firm maintains notable concentration in certain holdings. The firm does monitor capacity closely and has formal allocation policies when the firm, as a whole, owns more than 7% of the float of a single company. The firm will not hold more than 18% of any single company. Currently, stocks on allocation only represent a small percentage of the Large-Cap Growth portfolio.

Rating Decile	Weight
3rd	10%

VI. Attribution

The portfolio management team uses a series of comprehensive, daily, weekly, and monthly reports to monitor the risk factors, style consistency, portfolio characteristics, and to attribute performance of the portfolio. These reports are generated through a combination of internal and external systems, including the Barra Aegis risk model, Zephyr StyleADVISOR, and a reputable third party attribution system. These tools are primarily used to monitor risk factors such as security weights, sector weights, market capitalization, MPT statistics, and valuation measures versus the benchmark. In addition, each analyst is measured on their own predictive capabilities which are used to determine, in part, the compensation of each analyst. Formal risk meetings between the Investment Risk Management Group and portfolio managers typically occur on a monthly cycle (at the portfolio manager’s discretion).

Decile	Rating										
	1	2	3	4	5	6	7	8	9	10	
Corresponding Grade	A		B			C		D		F	

T. Rowe Price

US Large-Cap Growth Equity Strategy

Firm Information

T. Rowe Price

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V. Direct Plan Fact Sheets

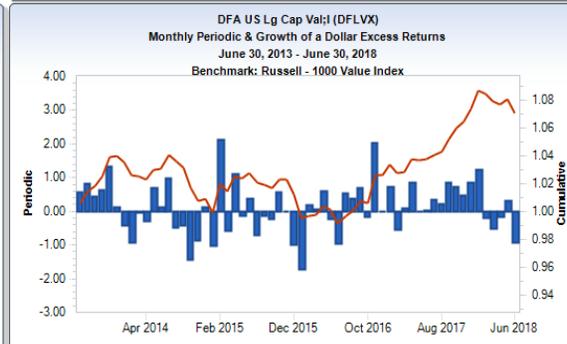
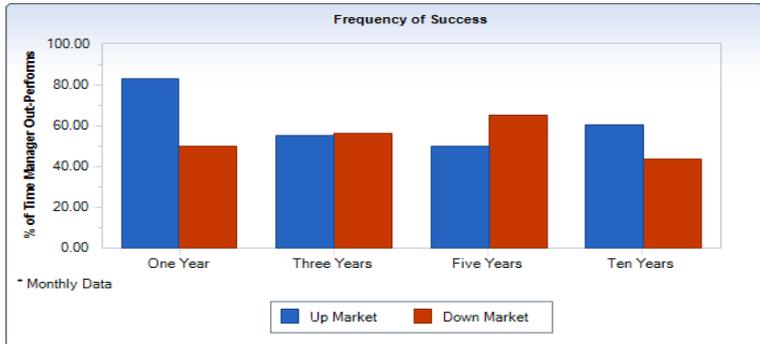
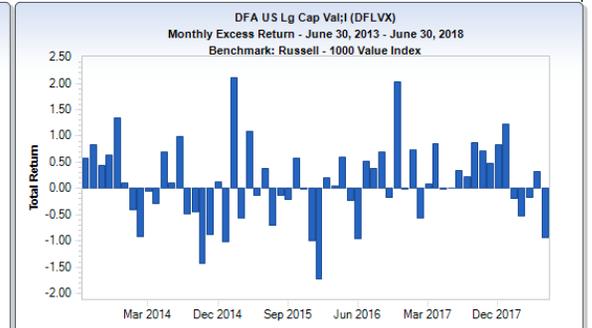
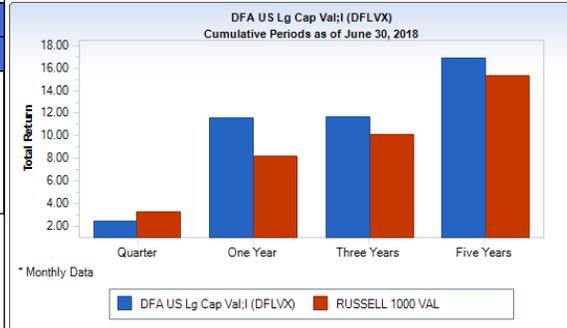
Performance Fact Sheet: DFA US Lg Cap Val;I (DFLVX)

Fund Family: DIMENSIONAL FUND ADVISORS LP
 Asset Class: U.S. Equity
 Style Category: Large-Cap Value Funds
 Objective Category: GROWTH & INCOME
 Ticker: DFLVX
 Share Class: I

Net Assets (\$MM): \$25,057.10
 Expense Ratio: 0.27
 Front Load:
 12B-1 Fee:
 Turnover: 15.00
 Mgr Tenure: 6

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
DFA US Lg Cap Val;I (DFLVX)	11.60	11.66	16.91	12.62	11.14	14.80	15.74	20.00	49.74	19.33	-0.74	13.91	10.58	-25.96
RUSSELL 1000 VAL	8.15	10.16	15.33	11.35	6.20	13.29	15.34	23.68	41.45	14.89	2.87	9.48	1.65	-21.02
Risk - Standard Deviation														
DFA US Lg Cap Val;I (DFLVX)	7.91	10.54	9.62	14.00	9.42	13.11	11.72	3.11	9.73	8.89	14.42	14.45	24.92	20.77
RUSSELL 1000 VAL	6.96	9.64	9.08	11.59	9.35	11.13	11.78	4.40	8.77	7.08	10.43	10.67	21.70	15.85
Risk - Semi-Variance														
DFA US Lg Cap Val;I (DFLVX)	5.27	7.28	6.77	10.89	6.21	9.23	8.53	2.24	6.93	7.24	10.09	11.39	19.76	15.29
RUSSELL 1000 VAL	4.87	6.70	6.54	9.00	6.02	7.84	8.88	2.99	6.34	5.17	7.39	8.56	17.52	11.01
Excess Returns														
Arithmetic Excess	3.45	1.50	1.58	1.27	4.94	1.51	0.40	-3.68	8.29	4.44	-3.61	4.43	8.93	-4.94
Geometric Excess	3.19	1.36	1.37	1.14	4.65	1.33	0.35	-2.98	5.86	3.86	-3.51	4.05	8.79	-6.25

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	2.18	2.45	2.62	4.31
Information Ratio	1.46	0.56	0.52	0.26
Downside Deviation	1.65	1.76	1.83	3.27
Skewness	-0.46	-0.08	0.13	-0.88
Kurtosis	-0.27	1.15	0.48	6.66
Alpha	2.30	0.48	0.45	-0.33
Beta	1.17	1.13	1.10	1.20
Residual Risk	1.68	2.13	2.47	2.96
R Squared	0.97	0.97	0.95	0.98



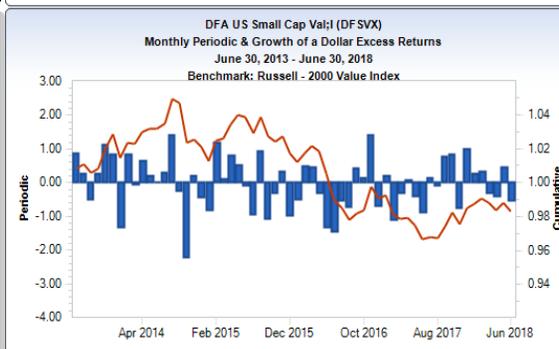
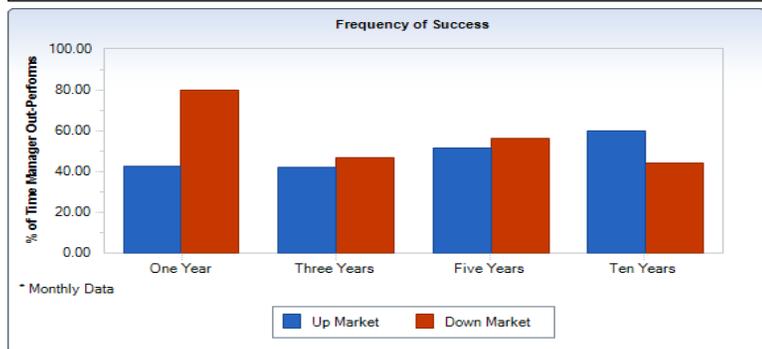
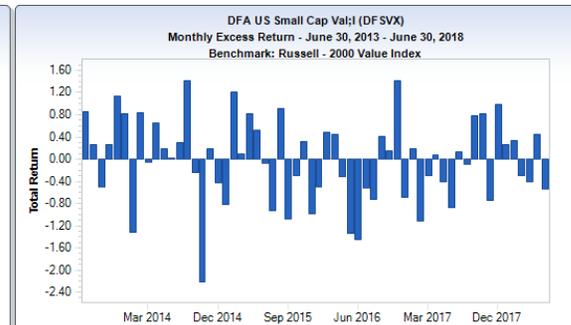
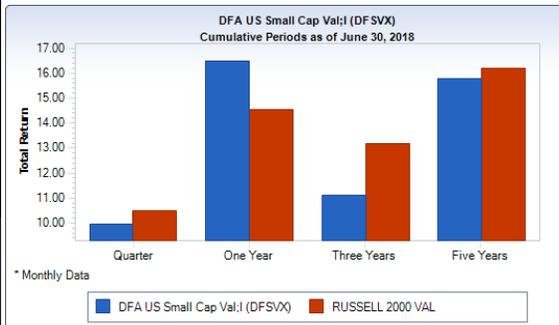
Performance Fact Sheet: DFA US Small Cap Val;I (DFSVX)

Fund Family: DIMENSIONAL FUND ADVISORS LP
 Asset Class: U.S. Equity
 Style Category: Small-Cap Value Funds
 Objective Category: SMALL-CAP
 Ticker: DFSVX
 Share Class: I

Net Assets (\$MM): \$16,147.70
 Expense Ratio: 0.52
 Front Load:
 12B-1 Fee:
 Turnover: 24.00
 Mgr Tenure: 6

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
DFA US Small Cap Val;I (DFSVX)	16.49	11.10	15.80	13.48	0.18	23.83	10.55	12.82	51.95	19.01	-5.27	24.07	13.47	-20.94
RUSSELL 2000 VAL	14.56	13.17	16.20	12.77	0.75	27.19	10.97	13.62	43.54	15.43	-3.16	18.02	2.38	-11.11
Risk - Standard Deviation														
DFA US Small Cap Val;I (DFSVX)	12.44	14.33	13.38	17.39	12.71	18.73	12.46	11.86	11.12	9.47	17.09	20.74	29.62	23.00
RUSSELL 2000 VAL	12.17	13.69	13.00	15.89	12.41	17.65	12.30	12.63	8.93	9.78	14.54	16.69	27.65	22.69
Risk - Semi-Variance														
DFA US Small Cap Val;I (DFSVX)	7.78	8.71	8.97	13.00	8.02	11.38	9.49	8.52	8.51	7.18	11.66	16.79	23.17	16.68
RUSSELL 2000 VAL	8.21	8.74	9.01	12.05	8.29	11.27	9.67	8.89	7.04	6.90	9.90	13.52	22.06	16.10
Excess Returns														
Arithmetic Excess	1.93	-2.07	-0.40	0.71	-0.57	-3.36	-0.42	-0.80	8.41	3.58	-2.11	6.05	11.09	-9.83
Geometric Excess	1.68	-1.83	-0.34	0.63	-0.57	-2.64	-0.38	-0.70	5.86	3.10	-2.18	5.13	10.83	-11.06

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	1.98	2.45	2.66	3.64
Information Ratio	0.85	-0.75	-0.13	0.17
Downside Deviation	1.41	1.69	1.96	2.65
Skewness	-0.03	0.15	-0.34	-0.19
Kurtosis	-1.17	-0.64	-0.03	0.47
Alpha	1.56	-2.26	-0.72	-0.15
Beta	1.01	1.05	1.04	1.09
Residual Risk	2.01	2.43	2.69	3.23
R Squared	0.97	0.97	0.97	0.98



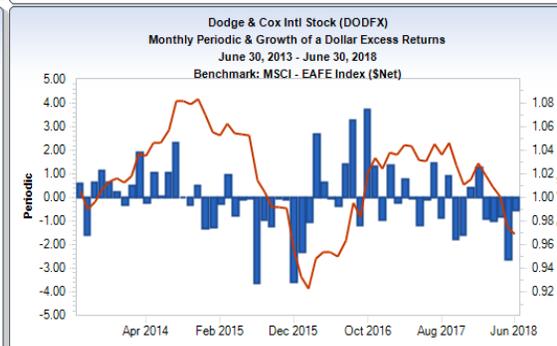
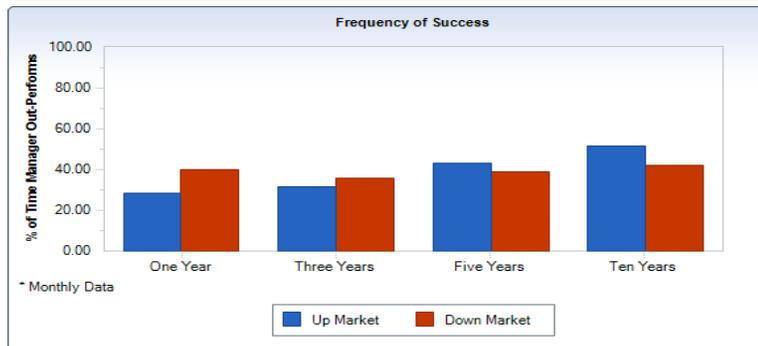
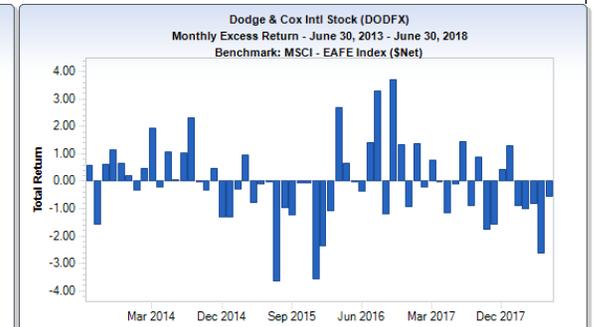
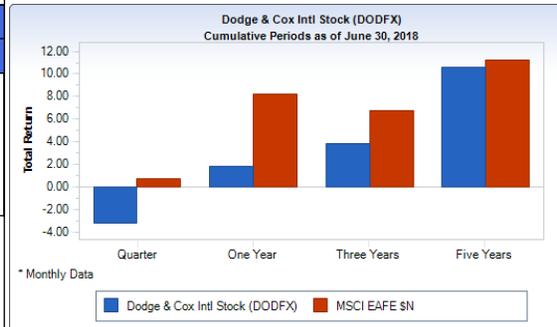
Performance Fact Sheet: Dodge & Cox Intl Stock (DODFX)

Fund Family: DODGE & COX
 Asset Class: Non U.S. Equity
 Style Category: International Large-Cap Core
 Objective Category: INTERNATIONAL
 Ticker: DODFX
 Share Class: Standard

Net Assets (\$MM): \$59,273.70
 Expense Ratio: 0.63
 Front Load:
 12B-1 Fee:
 Turnover: 17.00
 Mgr Tenure:

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Dodge & Cox Intl Stock (DODFX)	1.80	3.85	10.56	6.40	15.81	4.52	6.30	9.09	34.79	18.33	-13.88	7.75	25.25	-33.31
MSCI EAFE \$N	8.22	6.74	11.24	5.55	16.81	-2.49	18.95	3.68	31.03	14.71	-9.96	2.13	11.92	-29.18
Risk - Standard Deviation														
Dodge & Cox Intl Stock (DODFX)	7.87	12.69	11.76	15.39	8.92	16.20	14.91	7.55	8.45	13.32	12.00	15.98	23.94	22.87
MSCI EAFE \$N	6.43	11.21	10.68	13.31	9.22	12.50	15.76	6.33	7.68	11.98	11.25	14.76	18.36	19.76
Risk - Semi-Variance														
Dodge & Cox Intl Stock (DODFX)	5.19	9.68	8.78	11.87	6.66	12.73	10.46	5.15	6.22	11.00	8.28	11.38	19.08	16.95
MSCI EAFE \$N	3.91	8.33	7.51	10.21	6.86	9.38	10.89	3.51	5.48	10.03	7.60	10.89	14.79	14.90
Excess Returns														
Arithmetic Excess	-6.42	-2.89	-0.68	0.85	-1.00	7.01	-12.65	5.41	3.76	3.62	-3.92	5.62	13.33	-4.13
Geometric Excess	-5.93	-2.71	-0.61	0.81	-0.86	7.19	-10.63	5.22	2.87	3.16	-4.35	5.50	11.91	-5.83

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	4.40	5.75	4.94	5.29
Information Ratio	-1.35	-0.47	-0.13	0.15
Downside Deviation	2.93	3.90	3.46	3.72
Skewness	0.20	0.25	0.04	-0.04
Kurtosis	-0.78	0.43	0.86	1.70
Alpha	-7.34	-3.30	-1.28	0.51
Beta	1.29	1.15	1.12	1.12
Residual Risk	3.50	5.53	4.81	4.81
R Squared	0.92	0.86	0.88	0.95

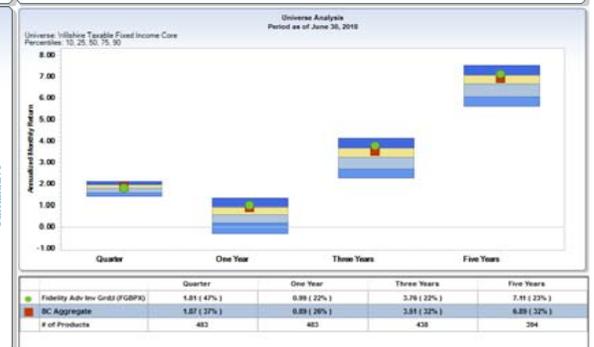
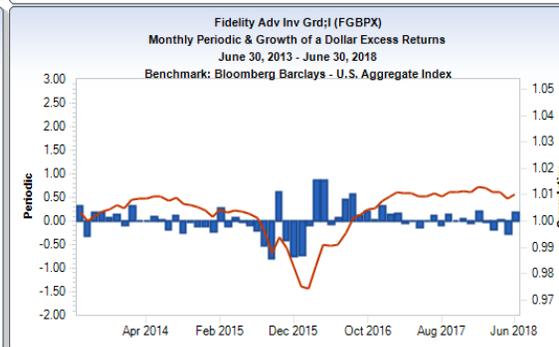
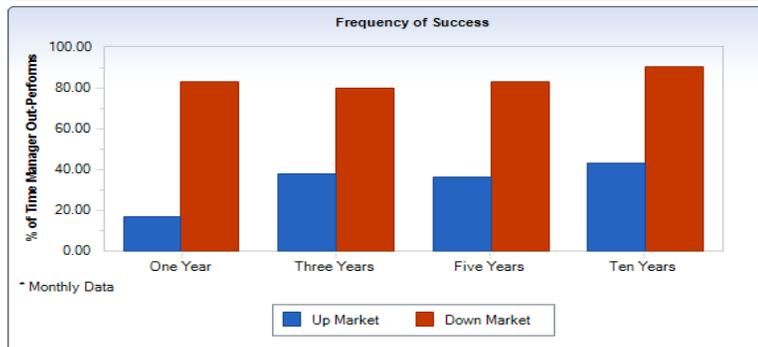
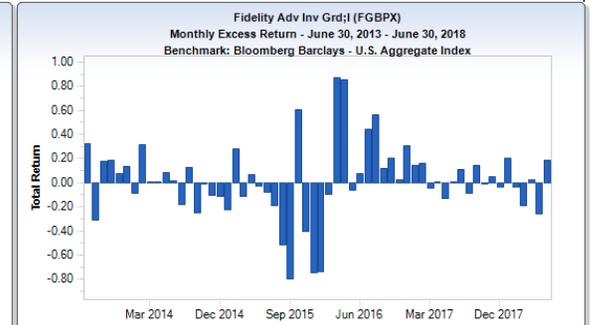
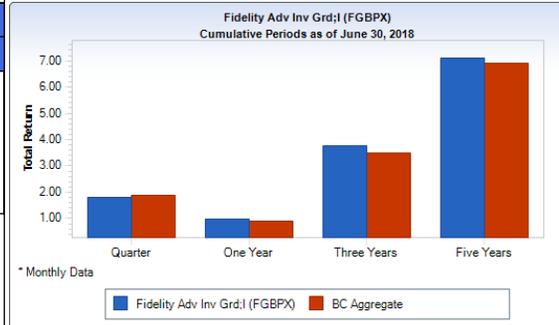


Performance Fact Sheet: Fidelity Adv Inv Grd;I (FGBPX)

Fund Family:	FIDELITY MANAGEMENT & RESEARCH	Net Assets (\$MM):	\$1,023.90
Asset Class:	Taxable Fixed Income	Expense Ratio:	0.50
Style Category:	Core Bond Funds	Front Load:	
Objective Category:	CORE BOND	12B-1 Fee:	
Ticker:	FGBPX	Turnover:	57.00
Share Class:	I	Mgr Tenure:	14

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Fidelity Adv Inv Grd;I (FGBPX)	0.99	3.76	7.11	6.77	-2.96	1.66	18.00	15.29	4.81	3.82	10.68	2.72	-1.70	16.14
BC Aggregate	0.89	3.51	6.89	6.45	-3.26	-0.90	20.59	15.52	4.56	1.90	10.51	0.98	-10.03	31.63
Risk - Standard Deviation														
Fidelity Adv Inv Grd;I (FGBPX)	7.75	7.98	9.22	9.57	8.44	7.76	14.22	6.94	5.58	7.14	10.36	10.79	12.15	11.61
BC Aggregate	7.99	8.57	9.68	10.54	8.49	8.47	14.81	7.18	5.89	7.06	10.87	11.27	13.23	14.34
Risk - Semi-Variance														
Fidelity Adv Inv Grd;I (FGBPX)	5.62	5.81	5.99	6.28	5.93	5.63	8.66	4.09	3.74	3.56	6.98	7.60	8.35	7.86
BC Aggregate	5.80	6.24	6.35	6.91	5.99	6.05	9.41	4.29	4.07	3.48	7.25	7.94	9.42	9.31
Excess Returns														
Arithmetic Excess	0.10	0.25	0.22	0.32	0.30	2.56	-2.59	-0.23	0.25	1.92	0.17	1.74	8.33	-15.49
Geometric Excess	0.10	0.24	0.21	0.30	0.31	2.58	-2.15	-0.20	0.24	1.88	0.15	1.72	9.26	-11.77

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.50	1.31	1.08	2.18
Information Ratio	0.20	0.18	0.19	0.14
Downside Deviation	0.37	0.94	0.76	1.83
Skewness	-0.44	-0.02	0.00	-3.03
Kurtosis	-0.35	0.86	1.94	19.59
Alpha	-0.13	0.28	0.25	0.36
Beta	0.87	0.96	0.97	0.98
Residual Risk	0.39	1.31	1.08	2.25
R Squared	0.96	0.79	0.86	0.68

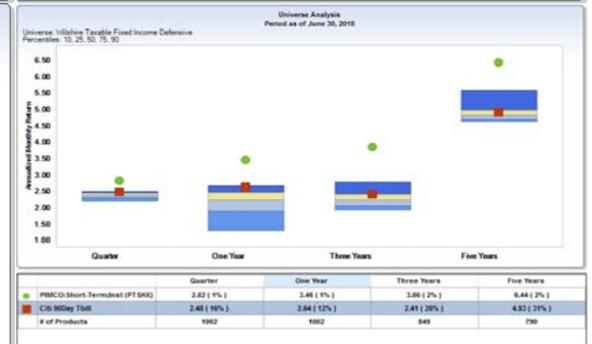
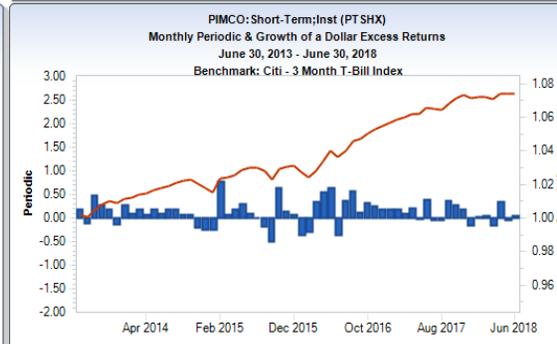
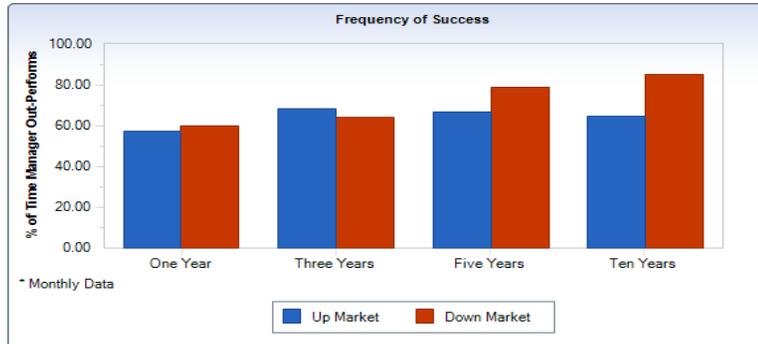
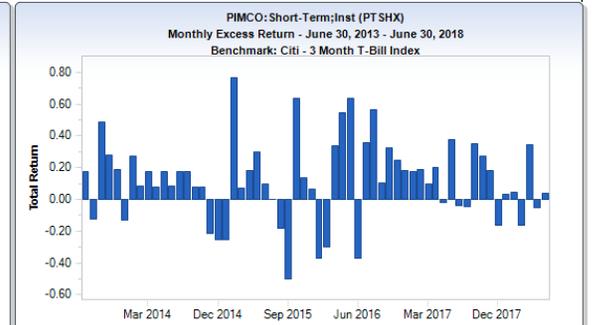
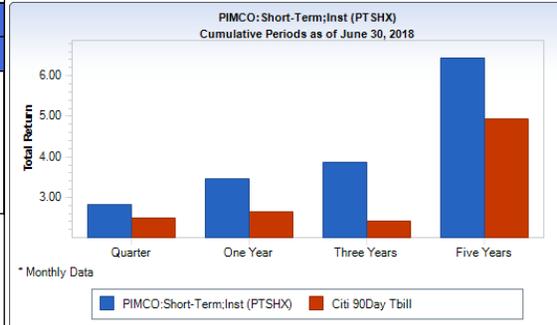


Performance Fact Sheet: PIMCO:Short-Term;Inst (PTSHX)

Fund Family:	PIMCO	Net Assets (\$MM):	\$12,396.80
Asset Class:	Taxable Fixed Income	Expense Ratio:	0.53
Style Category:	Ultra Sht Obligation Fds	Front Load:	
Objective Category:	ULTRA-SHORT OBLIG	12B-1 Fee:	
Ticker:	PTSHX	Turnover:	156.00
Share Class:	I	Mgr Tenure:	7

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
PIMCO:Short-Term;Inst (PTSHX)	3.46	3.86	6.44	4.83	-4.30	-0.99	21.54	10.07	7.59	1.12	2.84	-3.37	-7.03	23.47
Citi 90Day Tbill	2.64	2.41	4.93	2.96	-5.78	-3.19	19.96	9.05	6.77	-2.15	2.55	-5.10	-14.93	27.32
Risk - Standard Deviation														
PIMCO:Short-Term;Inst (PTSHX)	8.20	8.58	8.91	9.93	8.31	9.14	11.92	6.85	6.50	6.51	9.36	9.26	13.30	15.15
Citi 90Day Tbill	8.04	8.54	9.01	10.38	8.13	8.75	12.50	6.79	6.89	6.83	10.18	9.37	13.81	15.58
Risk - Semi-Variance														
PIMCO:Short-Term;Inst (PTSHX)	5.79	6.18	6.01	6.44	5.94	6.63	7.90	4.12	4.84	3.38	6.31	6.56	9.44	7.88
Citi 90Day Tbill	5.61	6.22	6.11	6.82	5.84	6.51	8.36	4.22	5.21	3.58	6.77	6.60	10.14	8.02
Excess Returns														
Arithmetic Excess	0.82	1.45	1.51	1.87	1.48	2.20	1.58	1.02	0.82	3.27	0.29	1.73	7.90	-3.85
Geometric Excess	0.80	1.42	1.44	1.82	1.57	2.27	1.32	0.94	0.77	3.34	0.28	1.82	9.29	-3.02

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.62	0.97	0.89	1.69
Information Ratio	1.28	1.46	1.62	1.08
Downside Deviation	0.40	0.70	0.63	1.25
Skewness	0.50	-0.14	0.05	-1.13
Kurtosis	-0.99	-0.18	0.31	13.49
Alpha	1.08	1.57	1.57	2.27
Beta	9.15	4.97	5.58	11.65
Residual Risk	0.59	0.95	0.88	1.57
R Squared	0.14	0.03	0.03	0.15



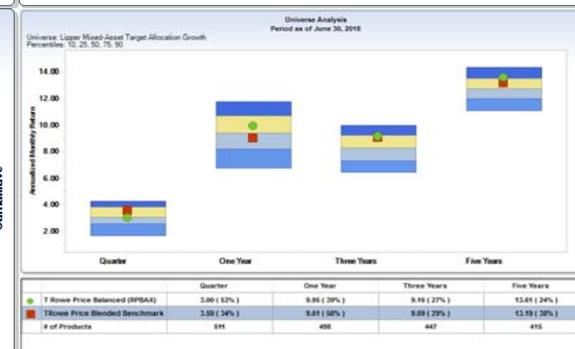
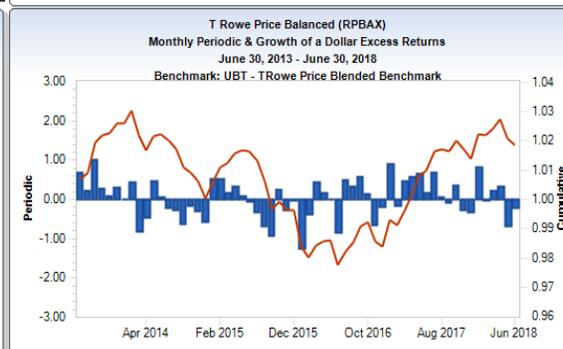
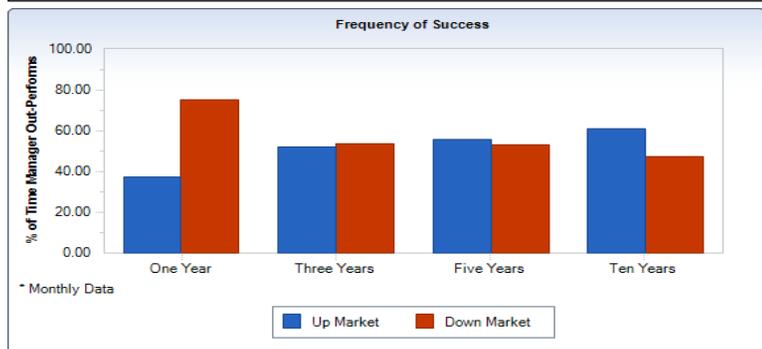
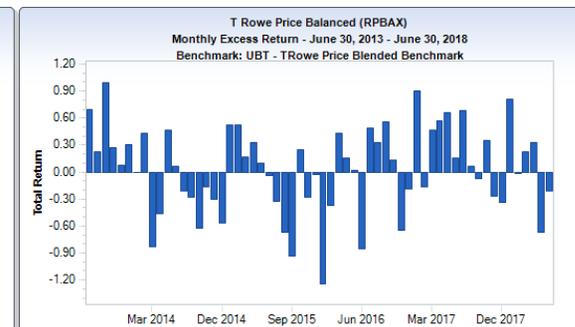
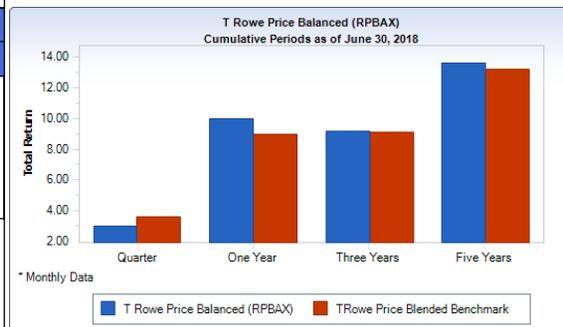
Performance Fact Sheet: T Rowe Price Balanced (RPBAX)

Fund Family: T. Rowe Price Associates Inc
Asset Class: Balanced
Style Category: Mixed-Asset Target Allocation Growth
Objective Category: BALANCED
Ticker: RPBAX
Share Class: Standard

Net Assets (\$MM): \$3,687.30
Expense Ratio: 0.61
Front Load:
12B-1 Fee:
Turnover: 49.00
Mgr Tenure: 7

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
T Rowe Price Balanced (RPBAX)	9.95	9.16	13.61	10.16	10.24	2.25	20.71	15.53	27.25	11.41	3.38	6.62	8.95	-10.48
TRowe Price Blended Benchmark	9.01	9.09	13.19	9.96	6.99	3.52	21.22	18.48	24.54	9.02	5.73	5.63	1.02	-3.45
Risk - Standard Deviation														
T Rowe Price Balanced (RPBAX)	6.25	8.32	8.41	8.39	8.90	8.95	12.58	4.72	4.99	4.55	5.45	5.29	12.32	12.55
TRowe Price Blended Benchmark	6.43	8.03	8.11	7.84	8.95	8.18	11.98	4.28	5.23	3.65	4.82	3.51	12.65	11.05
Risk - Semi-Variance														
T Rowe Price Balanced (RPBAX)	4.32	5.85	5.71	6.01	6.26	6.17	8.29	3.38	3.25	3.29	3.70	4.06	8.47	9.14
TRowe Price Blended Benchmark	4.55	5.53	5.48	5.54	6.31	5.52	7.89	3.12	3.39	2.61	3.52	2.65	8.64	8.11
Excess Returns														
Arithmetic Excess	0.94	0.07	0.42	0.20	3.25	-1.27	-0.51	-2.95	2.71	2.39	-2.35	0.99	7.93	-7.03
Geometric Excess	0.86	0.06	0.37	0.18	3.04	-1.23	-0.42	-2.49	2.18	2.19	-2.22	0.94	7.85	-7.28

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	1.49	1.78	1.68	2.48
Information Ratio	0.58	0.04	0.22	0.07
Downside Deviation	1.02	1.34	1.25	1.95
Skewness	0.16	-0.44	-0.37	-1.04
Kurtosis	-0.33	-0.23	-0.19	3.07
Alpha	0.51	-0.70	-0.53	-1.00
Beta	1.06	1.13	1.12	1.19
Residual Risk	1.47	1.60	1.52	1.73
R Squared	0.93	0.95	0.95	0.98



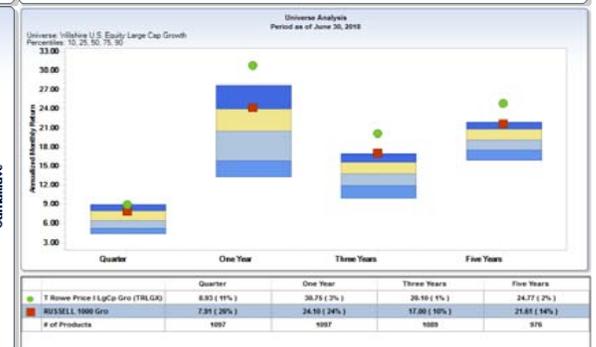
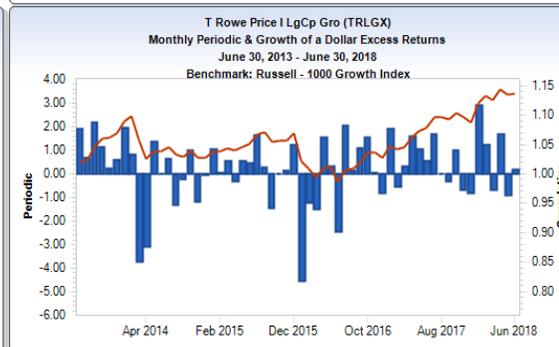
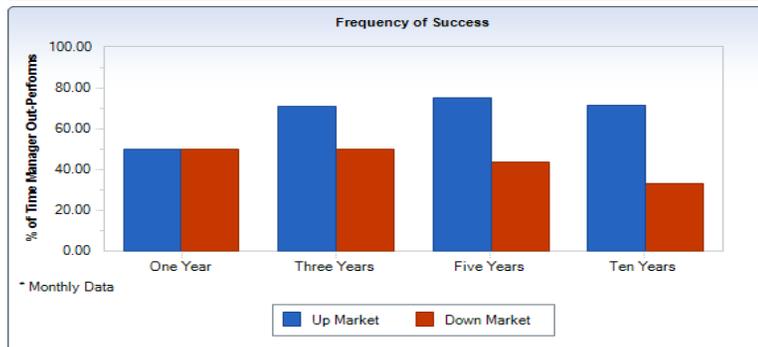
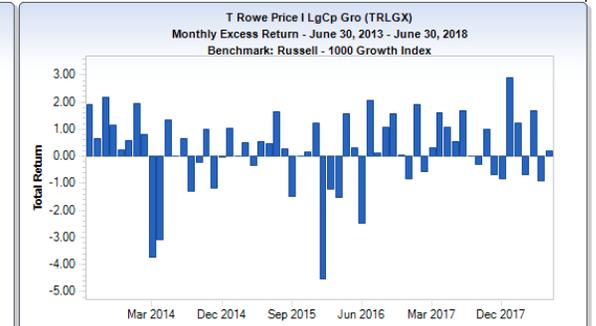
Performance Fact Sheet: T Rowe Price I LgCp Gro (TRLGX)

Fund Family: T. Rowe Price Associates Inc
 Asset Class: U.S. Equity
 Style Category: Large-Cap Growth Funds
 Objective Category: GROWTH
 Ticker: TRLGX
 Share Class: Standard

Net Assets (\$MM): \$18,330.60
 Expense Ratio: 0.56
 Front Load:
 12B-1 Fee:
 Turnover: 36.00
 Mgr Tenure: 1

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
T Rowe Price I LgCp Gro (TRLGX)	30.75	20.10	24.77	16.99	28.77	-0.71	31.98	18.51	54.15	14.93	1.05	10.22	30.27	-26.02
RUSSELL 1000 Gro	24.10	17.00	21.61	14.77	21.66	3.38	26.73	23.25	42.46	12.70	5.17	10.63	16.53	-23.00
Risk - Standard Deviation														
T Rowe Price I LgCp Gro (TRLGX)	11.89	14.34	13.39	14.30	11.73	15.84	16.54	10.90	8.09	11.60	10.81	14.34	14.28	22.51
RUSSELL 1000 Gro	10.26	11.81	10.90	11.73	11.19	11.87	14.75	6.89	6.23	7.52	8.54	11.79	14.89	17.72
Risk - Semi-Variance														
T Rowe Price I LgCp Gro (TRLGX)	7.99	10.45	9.99	10.84	8.26	11.47	11.89	8.77	5.77	8.44	6.13	10.66	10.22	16.86
RUSSELL 1000 Gro	6.98	8.32	7.81	8.73	7.90	8.13	10.65	4.78	4.47	4.93	5.40	8.90	10.83	12.72
Excess Returns														
Arithmetic Excess	6.65	3.10	3.16	2.22	7.11	-4.09	5.25	-4.74	11.69	2.23	-4.12	-0.41	13.74	-3.02
Geometric Excess	5.36	2.65	2.60	1.93	5.84	-3.96	4.14	-3.85	8.21	1.98	-3.92	-0.37	11.79	-3.92

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	4.29	5.02	4.92	4.97
Information Ratio	1.25	0.53	0.53	0.39
Downside Deviation	2.71	3.89	3.91	3.77
Skewness	0.69	-0.96	-1.09	-0.62
Kurtosis	-0.54	2.08	1.91	1.06
Alpha	2.86	0.93	0.98	0.77
Beta	1.14	1.14	1.12	1.11
Residual Risk	4.19	4.78	4.78	4.63
R Squared	0.87	0.87	0.86	0.93



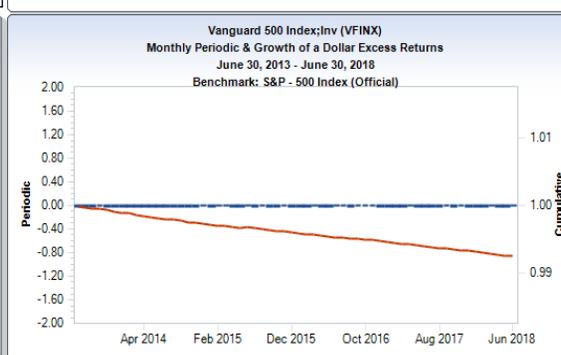
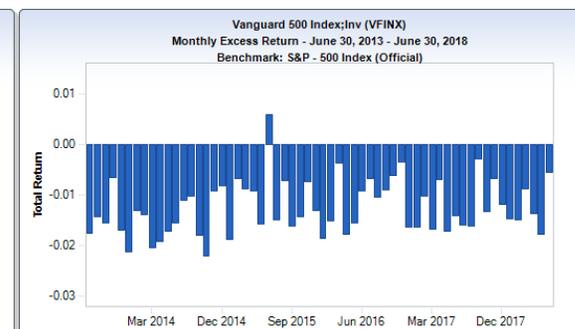
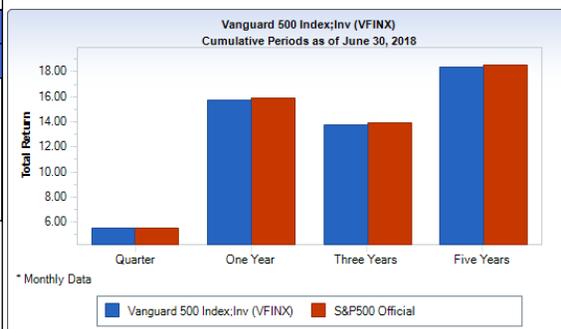
Performance Fact Sheet: Vanguard 500 Index;Inv (VFINX)

Fund Family: VANGUARD GROUP INC
Asset Class: U.S. Equity
Style Category: S&P 500 Index Funds
Objective Category: S&P 500 INDEX FUNDS
Ticker: VFINX
Share Class: Investor

Net Assets (\$MM): \$26,856.30
Expense Ratio: 0.14
Front Load:
12B-1 Fee: 0.02
Turnover: 3.00
Mgr Tenure: 2

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard 500 Index;Inv (VFINX)	15.69	13.74	18.37	12.94	13.66	7.95	21.44	23.72	41.07	13.25	4.50	8.92	7.43	-21.22
S&P500 Official	15.85	13.90	18.54	13.07	13.83	8.09	21.59	23.94	41.29	13.43	4.64	9.06	7.41	-21.20
Risk - Standard Deviation														
Vanguard 500 Index;Inv (VFINX)	8.30	10.38	9.64	11.11	9.90	11.03	13.18	5.01	7.60	6.81	8.88	10.63	18.02	15.79
S&P500 Official	8.30	10.38	9.65	11.11	9.89	11.03	13.19	5.00	7.59	6.80	8.88	10.62	18.02	15.80
Risk - Semi-Variance														
Vanguard 500 Index;Inv (VFINX)	5.79	7.28	6.89	8.38	6.65	7.72	9.71	3.15	5.38	4.64	6.00	8.36	13.97	10.90
S&P500 Official	5.79	7.28	6.89	8.39	6.65	7.71	9.71	3.15	5.38	4.64	5.99	8.36	13.97	10.91
Excess Returns														
Arithmetic Excess	-0.16	-0.16	-0.17	-0.13	-0.17	-0.14	-0.15	-0.22	-0.22	-0.18	-0.14	-0.14	0.02	-0.02
Geometric Excess	-0.14	-0.14	-0.14	-0.11	-0.15	-0.13	-0.12	-0.18	-0.16	-0.16	-0.13	-0.13	0.02	-0.03

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.02	0.02	0.02	0.03
Information Ratio	-8.56	-8.74	-8.06	-3.68
Downside Deviation	0.01	0.01	0.01	0.02
Skewness	0.73	0.45	0.77	1.59
Kurtosis	-0.65	-1.14	0.89	3.25
Alpha	-0.14	-0.14	-0.15	-0.12
Beta	1.00	1.00	1.00	1.00
Residual Risk	0.02	0.02	0.02	0.03
R Squared	1.00	1.00	1.00	1.00



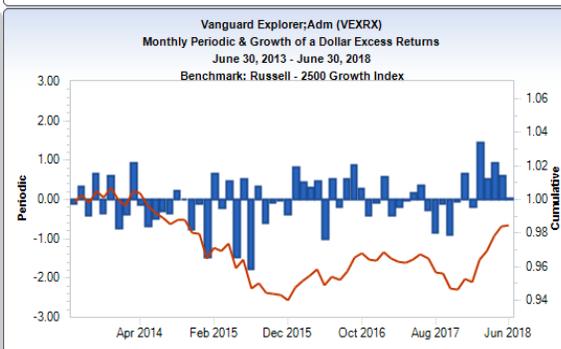
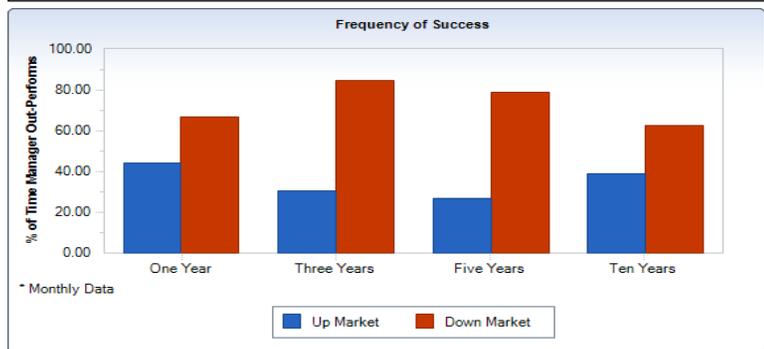
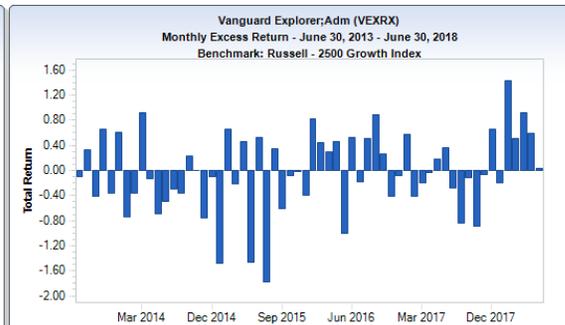
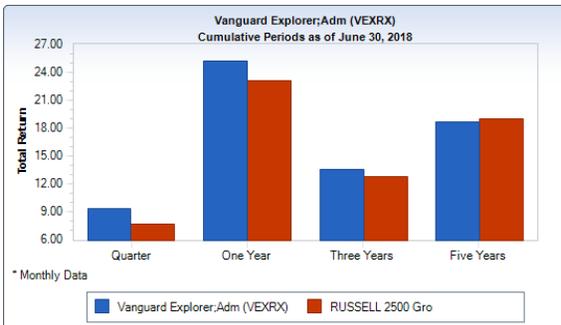
Performance Fact Sheet: Vanguard Explorer;Adm (VEXRX)

Fund Family: VANGUARD GROUP INC
 Asset Class: U.S. Equity
 Style Category: Small-Cap Growth Funds
 Objective Category: SMALL-CAP
 Ticker: VEXRX
 Share Class: Standard

Net Assets (\$MM): \$11,458.40
 Expense Ratio: 0.32
 Front Load:
 12B-1 Fee: 0.01
 Turnover: 76.00
 Mgr Tenure:

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Explorer;Adm (VEXRX)	25.26	13.59	18.64	14.16	15.01	8.59	14.86	13.48	54.32	12.53	0.73	20.97	15.87	-25.31
RUSSELL 2500 Gro	23.11	12.81	19.01	14.31	16.28	5.94	19.70	16.71	50.11	13.56	0.85	22.14	20.29	-26.83
Risk - Standard Deviation														
Vanguard Explorer;Adm (VEXRX)	9.82	12.28	11.98	14.45	9.47	15.47	15.18	10.91	8.14	9.50	15.29	14.47	19.81	21.54
RUSSELL 2500 Gro	10.15	13.13	12.86	15.24	10.37	16.86	16.56	11.52	8.28	9.26	15.31	14.82	20.53	23.34
Risk - Semi-Variance														
Vanguard Explorer;Adm (VEXRX)	7.08	9.16	9.21	11.13	6.56	11.23	11.93	8.20	5.75	7.22	10.16	11.20	14.82	15.64
RUSSELL 2500 Gro	7.18	9.61	9.73	11.69	7.16	11.93	12.83	8.81	6.00	6.85	10.28	11.36	15.08	17.27
Excess Returns														
Arithmetic Excess	2.15	0.78	-0.37	-0.15	-1.27	2.65	-4.84	-3.23	4.21	-1.03	-0.12	-1.17	-4.42	1.52
Geometric Excess	1.75	0.69	-0.31	-0.13	-1.09	2.50	-4.04	-2.77	2.80	-0.91	-0.12	-0.96	-3.67	2.08

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	2.41	2.17	2.19	2.15
Information Ratio	0.73	0.32	-0.14	-0.06
Downside Deviation	1.65	1.63	1.63	1.49
Skewness	0.21	-0.56	-0.45	0.20
Kurtosis	-0.41	1.13	0.44	1.46
Alpha	4.01	1.09	0.07	0.28
Beta	0.87	0.96	0.97	0.96
Residual Risk	2.17	2.15	2.21	2.00
R Squared	0.93	0.97	0.97	0.99



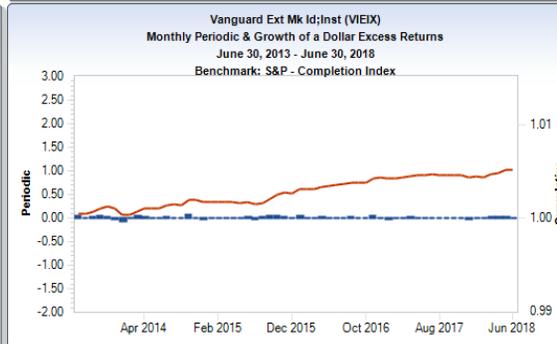
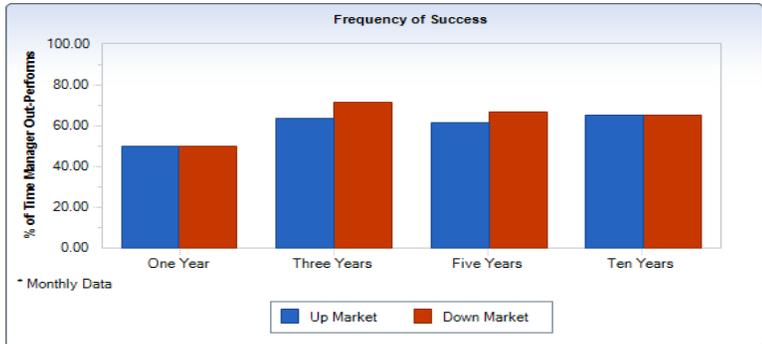
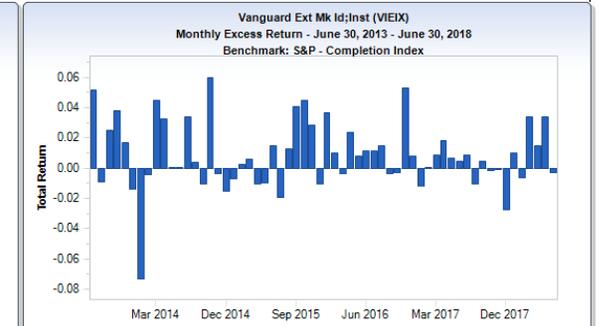
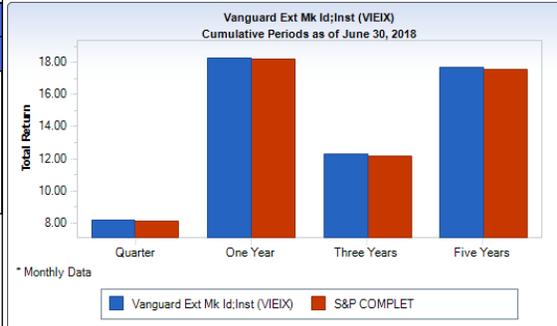
Performance Fact Sheet: Vanguard Ext Mk Id;Inst (VIEIX)

Fund Family: VANGUARD GROUP INC
 Asset Class: U.S. Equity
 Style Category: Small-Cap Core Funds
 Objective Category: MID-CAP
 Ticker: VIEIX
 Share Class: I

Net Assets (\$MM): \$14,580.40
 Expense Ratio: 0.06
 Front Load: 0.00
 12B-1 Fee: 0.00
 Turnover: 11.00
 Mgr Tenure: 21

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Ext Mk Id;Inst (VIEIX)	18.30	12.29	17.73	13.72	10.35	12.13	16.02	17.28	47.73	15.89	-1.18	20.93	16.94	-23.17
S&P COMPLET	18.23	12.16	17.61	13.57	10.35	11.95	15.91	17.19	47.54	15.73	-1.33	20.81	16.90	-23.63
Risk - Standard Deviation														
Vanguard Ext Mk Id;Inst (VIEIX)	9.15	11.77	11.52	14.40	9.62	15.52	14.32	10.10	7.74	8.85	14.20	14.24	21.90	21.83
S&P COMPLET	9.12	11.76	11.52	14.39	9.61	15.51	14.34	10.12	7.70	8.82	14.17	14.21	21.84	21.84
Risk - Semi-Variance														
Vanguard Ext Mk Id;Inst (VIEIX)	6.35	8.46	8.62	11.13	6.58	11.12	11.03	7.60	5.93	6.48	9.79	11.44	16.76	15.95
S&P COMPLET	6.33	8.47	8.62	11.14	6.58	11.13	11.04	7.63	5.90	6.44	9.80	11.44	16.71	15.97
Excess Returns														
Arithmetic Excess	0.07	0.13	0.12	0.15	0.00	0.18	0.11	0.09	0.19	0.16	0.15	0.12	0.04	0.46
Geometric Excess	0.06	0.12	0.10	0.13	0.00	0.16	0.09	0.08	0.13	0.14	0.15	0.10	0.03	0.60

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.06	0.06	0.08	0.11
Information Ratio	0.93	1.84	1.34	1.27
Downside Deviation	0.04	0.04	0.05	0.07
Skewness	0.25	0.50	-0.25	0.59
Kurtosis	0.33	0.13	2.13	2.88
Alpha	0.01	0.11	0.09	0.13
Beta	1.00	1.00	1.00	1.00
Residual Risk	0.06	0.06	0.08	0.11
R Squared	1.00	1.00	1.00	1.00



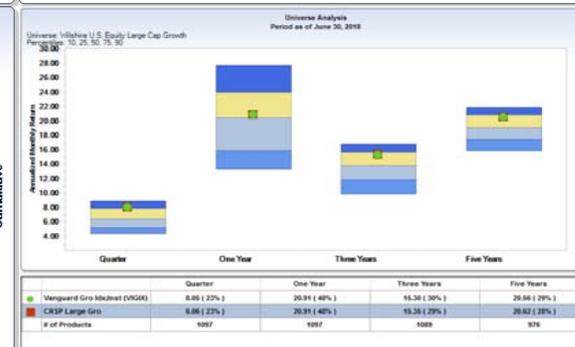
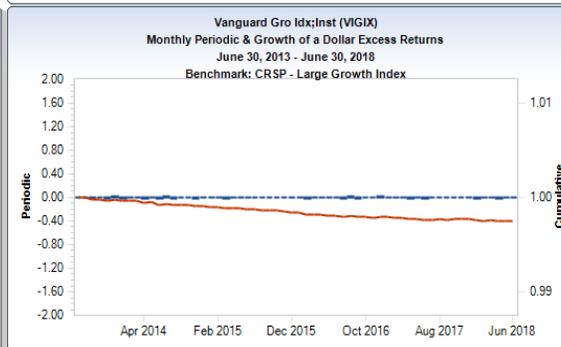
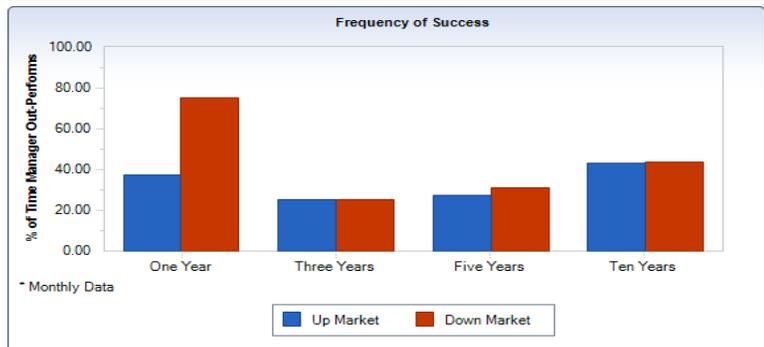
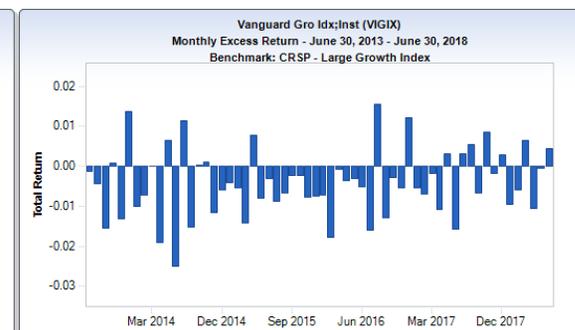
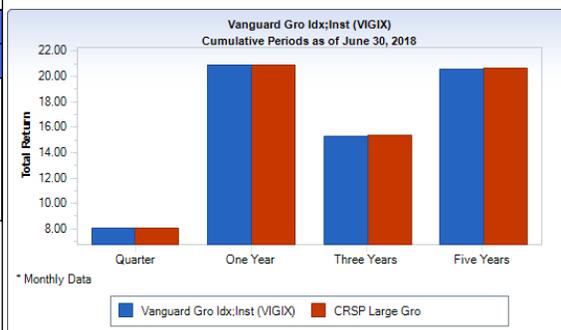
Performance Fact Sheet: Vanguard Gro Idx;Inst (VIGIX)

Fund Family: VANGUARD GROUP INC
 Asset Class: U.S. Equity
 Style Category: Large-Cap Growth Funds
 Objective Category: GROWTH
 Ticker: VIGIX
 Share Class: I

Net Assets (\$MM): \$13,701.30
 Expense Ratio: 0.04
 Front Load:
 12B-1 Fee: 0.00
 Turnover: 8.00
 Mgr Tenure: 18

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Gro Idx;Inst (VIGIX)	20.91	15.30	20.56	14.12	19.43	2.44	23.91	23.85	41.30	14.44	4.43	11.04	15.95	-22.69
CRSP Large Gro	20.91	15.35	20.62	13.49	19.46	2.49	23.99	23.95	40.61	12.65	3.07	9.73	15.43	-23.29
Risk - Standard Deviation														
Vanguard Gro Idx;Inst (VIGIX)	9.60	11.90	11.08	11.93	10.87	12.42	15.09	7.39	6.28	7.86	9.01	12.61	14.69	17.72
CRSP Large Gro	9.60	11.90	11.08	11.84	10.87	12.42	15.10	7.39	6.15	7.76	9.45	11.81	14.33	17.65
Risk - Semi-Variance														
Vanguard Gro Idx;Inst (VIGIX)	6.49	8.37	7.97	8.90	7.80	8.42	10.79	5.16	4.63	5.33	5.46	9.64	10.74	12.72
CRSP Large Gro	6.49	8.36	7.97	8.80	7.80	8.41	10.80	5.16	4.52	5.44	5.71	9.01	10.39	12.53
Excess Returns														
Arithmetic Excess	0.00	-0.05	-0.06	0.63	-0.03	-0.05	-0.08	-0.10	0.69	1.79	1.36	1.31	0.52	0.60
Geometric Excess	0.00	-0.04	-0.05	0.56	-0.03	-0.05	-0.06	-0.08	0.49	1.59	1.32	1.19	0.45	0.78

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.02	0.03	0.03	0.74
Information Ratio	-0.17	-1.57	-1.68	0.75
Downside Deviation	0.02	0.02	0.02	0.44
Skewness	-0.35	0.43	0.15	1.01
Kurtosis	-1.33	0.24	0.07	2.27
Alpha	0.00	-0.04	-0.05	0.56
Beta	1.00	1.00	1.00	1.00
Residual Risk	0.02	0.03	0.03	0.75
R Squared	1.00	1.00	1.00	1.00



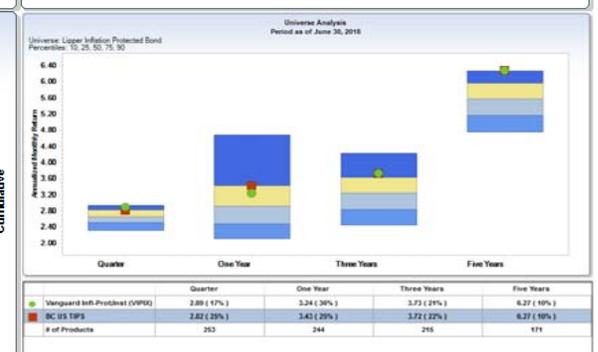
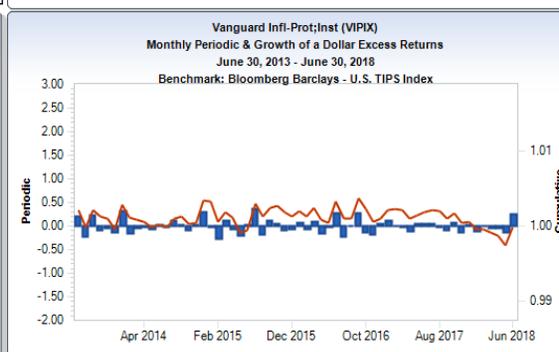
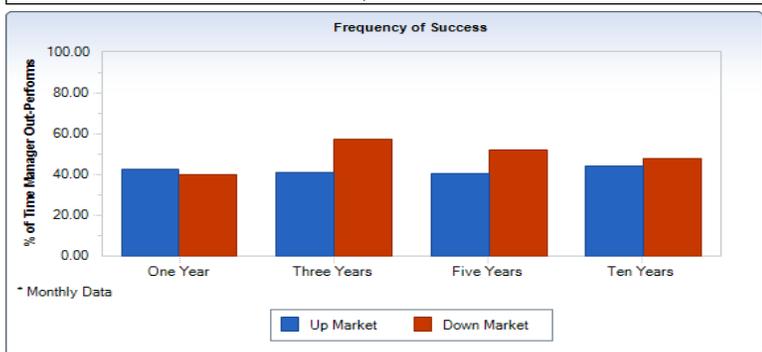
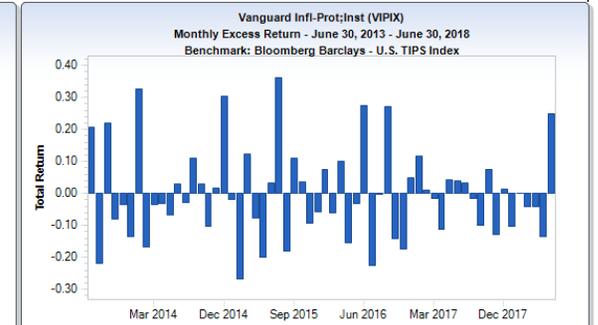
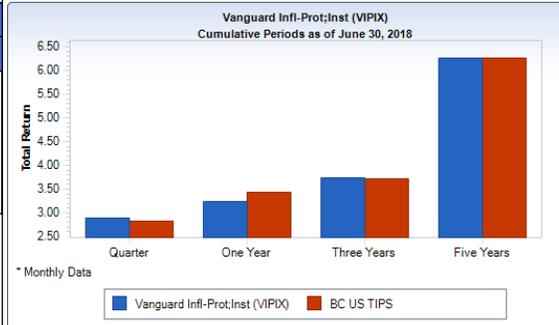
Performance Fact Sheet: Vanguard Infl-Prot;Inst (VIPIX)

Fund Family: VANGUARD GROUP INC
Asset Class: Taxable Fixed Income
Style Category: Inflation Protected Bond
Objective Category: INFLATION PROTECTED
Ticker: VIPIX
Share Class: I

Net Assets (\$MM): \$10,208.10
Expense Ratio: 0.07
Front Load:
12B-1 Fee: 0.00
Turnover: 22.00
Mgr Tenure: 7

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Infl-Prot;Inst (VIPIX)	3.24	3.73	6.27	5.58	-3.80	1.04	17.94	13.43	-2.71	4.50	16.21	0.77	-5.70	21.56
BC US TIPS	3.43	3.72	6.27	5.75	-3.76	1.07	18.20	12.99	-2.46	4.60	16.37	0.76	-5.38	22.13
Risk - Standard Deviation														
Vanguard Infl-Prot;Inst (VIPIX)	7.91	8.16	9.62	10.27	8.61	7.77	15.24	7.78	5.36	8.30	8.64	11.99	15.66	12.12
BC US TIPS	7.80	8.09	9.54	10.18	8.68	7.64	15.11	7.50	5.34	8.19	8.55	11.83	15.53	12.10
Risk - Semi-Variance														
Vanguard Infl-Prot;Inst (VIPIX)	5.78	6.00	5.90	6.99	6.13	5.65	8.55	3.95	3.16	4.55	5.74	8.52	11.81	9.31
BC US TIPS	5.74	5.97	5.86	6.95	6.22	5.53	8.44	3.88	3.17	4.51	5.82	8.43	11.73	9.35
Excess Returns														
Arithmetic Excess	-0.19	0.01	0.00	-0.17	-0.04	-0.03	-0.26	0.44	-0.25	-0.10	-0.16	0.01	-0.32	-0.57
Geometric Excess	-0.18	0.01	0.00	-0.16	-0.04	-0.03	-0.22	0.39	-0.26	-0.10	-0.14	0.01	-0.34	-0.47

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.37	0.47	0.50	0.56
Information Ratio	-0.52	0.03	0.00	-0.28
Downside Deviation	0.22	0.29	0.31	0.41
Skewness	1.33	0.82	0.66	-0.56
Kurtosis	2.55	0.63	0.19	2.47
Alpha	-0.22	-0.06	-0.05	-0.19
Beta	1.03	1.06	1.04	1.01
Residual Risk	0.36	0.44	0.48	0.56
R Squared	0.98	0.98	0.99	0.99



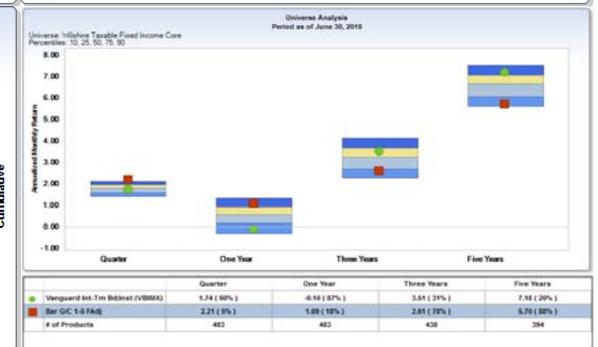
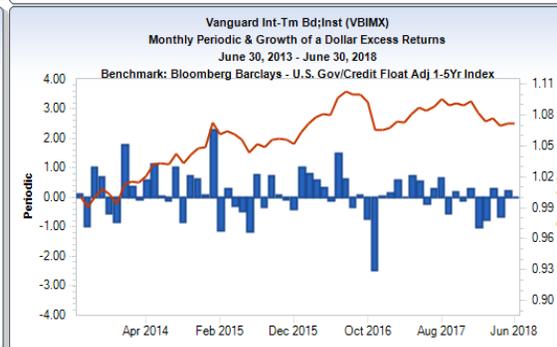
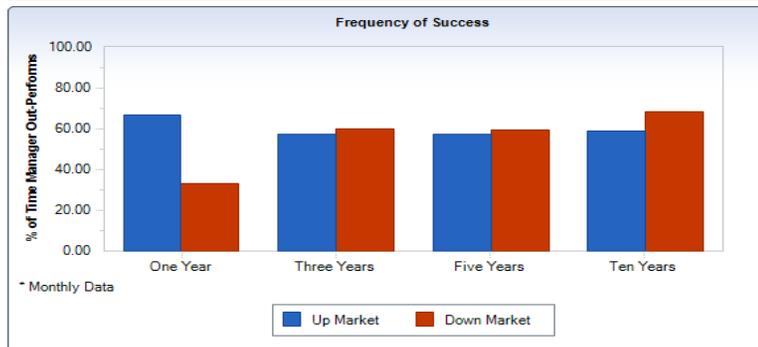
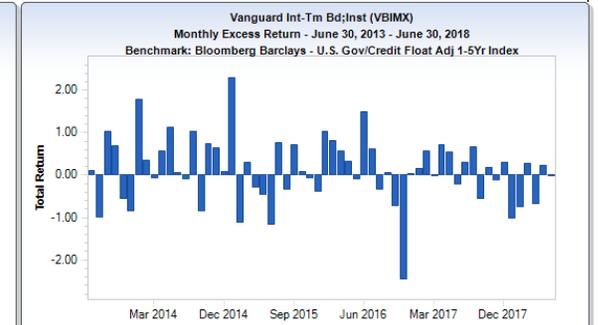
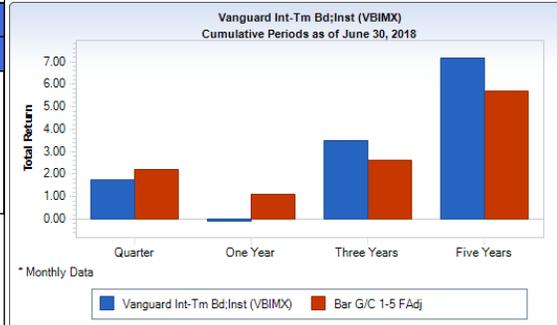
Performance Fact Sheet: Vanguard Int-Tm Bd;Inst (VBIMX)

Fund Family: VANGUARD GROUP INC
Asset Class: Taxable Fixed Income
Style Category: Core Bond Funds
Objective Category: CORE BOND
Ticker: VBIMX
Share Class: I

Net Assets (\$MM): \$3,062.20
Expense Ratio: 0.05
Front Load:
12B-1 Fee: 0.00
Turnover: 55.00
Mgr Tenure: 10

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Int-Tm Bd;Inst (VBIMX)	-0.10	3.51	7.18	7.44	-2.96	-0.70	21.50	16.65	3.07	4.69	13.51	3.81	-9.17	31.38
Bar G/C 1-5 FAdj	1.09	2.61	5.70	4.94	-5.39	-1.94	21.10	10.57	7.03	-0.03	5.69	-1.35	-11.13	31.48
Risk - Standard Deviation														
Vanguard Int-Tm Bd;Inst (VBIMX)	8.24	8.84	10.23	11.04	8.79	8.77	15.98	7.81	5.95	7.30	10.87	12.85	13.40	14.98
Bar G/C 1-5 FAdj	8.03	8.47	9.19	10.34	8.20	8.45	13.36	6.82	6.27	6.52	9.81	10.18	13.23	15.78
Risk - Semi-Variance														
Vanguard Int-Tm Bd;Inst (VBIMX)	5.92	6.43	6.54	7.20	6.09	6.25	9.83	4.45	3.61	3.65	7.49	8.99	9.35	10.60
Bar G/C 1-5 FAdj	5.62	6.16	6.10	6.72	5.80	6.20	8.71	4.20	4.63	3.37	6.66	7.23	9.62	9.01
Excess Returns														
Arithmetic Excess	-1.19	0.90	1.48	2.50	2.43	1.24	0.40	6.08	-3.96	4.72	7.82	5.16	1.96	-0.10
Geometric Excess	-1.18	0.88	1.40	2.38	2.57	1.26	0.33	5.50	-3.70	4.72	7.40	5.23	2.21	-0.08

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	1.81	2.41	2.70	3.75
Information Ratio	-0.65	0.36	0.52	0.63
Downside Deviation	1.40	1.90	1.95	2.72
Skewness	-0.50	-1.24	-0.20	-0.25
Kurtosis	-1.00	3.98	1.67	3.12
Alpha	1.14	0.60	0.08	-1.07
Beta	2.46	2.69	2.87	2.88
Residual Risk	0.90	1.04	1.35	2.29
R Squared	0.89	0.92	0.88	0.81



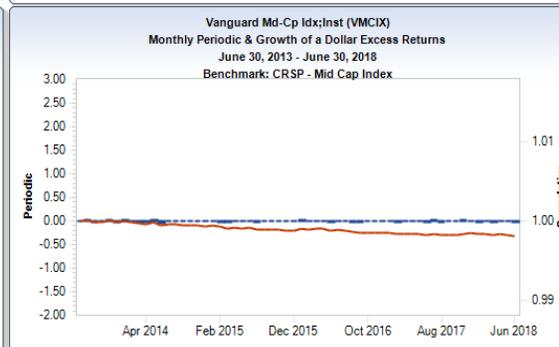
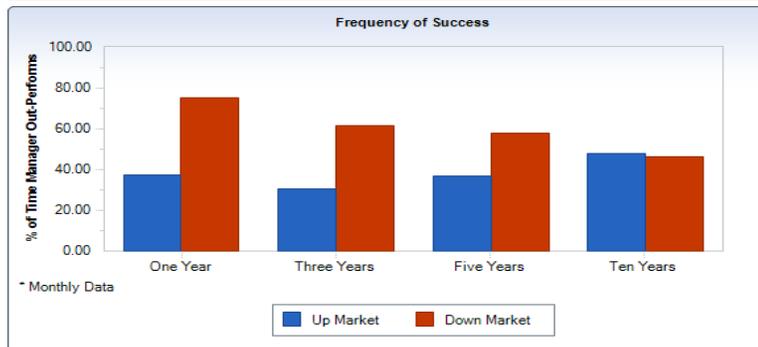
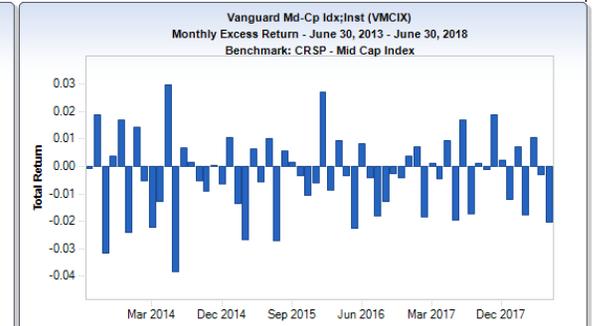
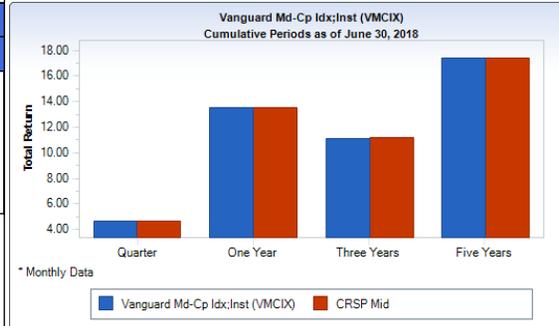
Performance Fact Sheet: Vanguard Md-Cp Idx;Inst (VMCIX)

Fund Family: VANGUARD GROUP INC
 Asset Class: U.S. Equity
 Style Category: Mid-Cap Core Funds
 Objective Category: MID-CAP
 Ticker: VMCIX
 Share Class: I

Net Assets (\$MM): \$18,730.00
 Expense Ratio: 0.04
 Front Load:
 12B-1 Fee: 0.00
 Turnover: 14.00
 Mgr Tenure: 20

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Md-Cp Idx;Inst (VMCIX)	13.56	11.13	17.38	13.01	11.45	7.37	18.33	24.03	44.26	13.43	0.47	19.10	19.34	-27.16
CRSP Mid	13.57	11.17	17.42	12.90	11.46	7.40	18.40	24.09	44.35	14.10	0.64	19.57	16.27	-27.25
Risk - Standard Deviation														
Vanguard Md-Cp Idx;Inst (VMCIX)	7.22	10.15	10.00	13.15	9.27	12.83	13.15	7.83	6.96	7.87	12.66	12.40	19.65	21.55
CRSP Mid	7.23	10.17	10.01	12.97	9.27	12.86	13.17	7.82	6.95	7.80	11.73	12.18	19.87	21.05
Risk - Semi-Variance														
Vanguard Md-Cp Idx;Inst (VMCIX)	5.16	7.27	7.34	10.24	6.41	8.98	9.82	5.38	4.88	5.76	8.71	9.96	15.25	15.46
CRSP Mid	5.17	7.28	7.35	10.11	6.41	9.01	9.84	5.37	4.87	5.74	8.18	9.79	15.41	15.10
Excess Returns														
Arithmetic Excess	-0.01	-0.04	-0.04	0.11	-0.01	-0.03	-0.07	-0.06	-0.09	-0.67	-0.17	-0.47	3.07	0.09
Geometric Excess	-0.01	-0.04	-0.03	0.10	-0.01	-0.03	-0.06	-0.05	-0.06	-0.59	-0.17	-0.39	2.64	0.12

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.05	0.04	0.05	0.91
Information Ratio	-0.31	-0.82	-0.76	0.11
Downside Deviation	0.03	0.03	0.04	0.61
Skewness	-0.03	0.15	-0.11	0.52
Kurtosis	-1.17	-0.27	-0.11	5.09
Alpha	-0.02	-0.03	-0.03	-0.03
Beta	1.00	1.00	1.00	1.01
Residual Risk	0.05	0.04	0.05	0.88
R Squared	1.00	1.00	1.00	1.00



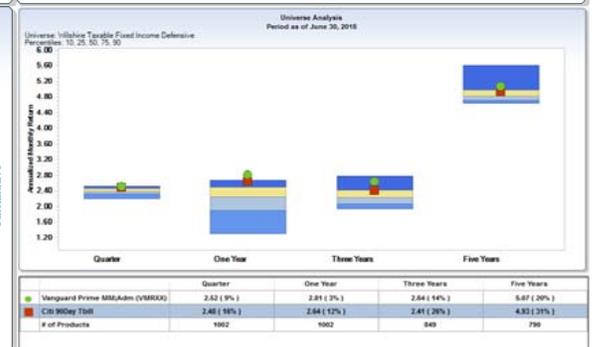
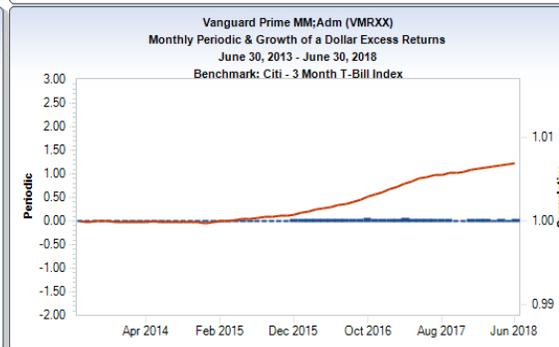
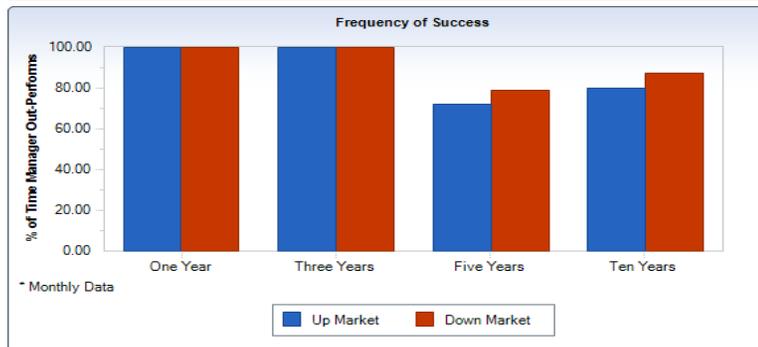
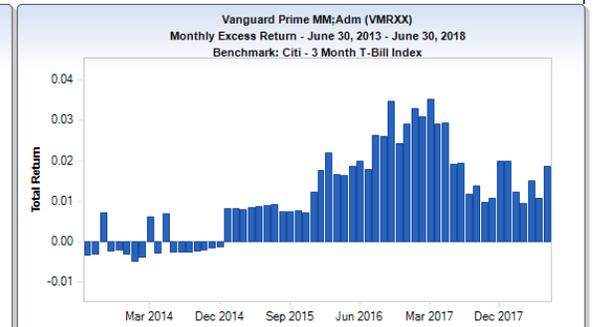
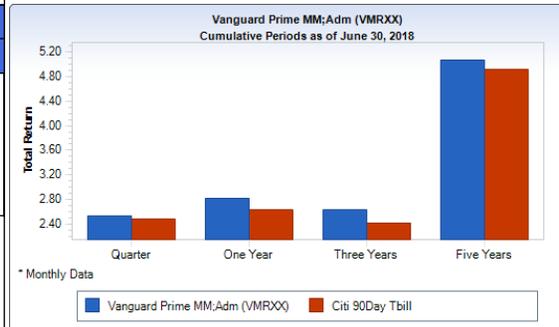
Performance Fact Sheet: Vanguard Prime MM;Adm (VMRXX)

Fund Family: VANGUARD GROUP INC
 Asset Class: Taxable Fixed Income
 Style Category: Money Market Funds
 Objective Category: MONEY MARKET
 Ticker: VMRXX
 Share Class: I

Net Assets (\$MM): \$13,546.00
 Expense Ratio: 0.10
 Front Load:
 12B-1 Fee: 0.01
 Turnover:
 Mgr Tenure: 15

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Prime MM;Adm (VMRXX)	2.81	2.64	5.07	3.16	-5.54	-2.93	20.09	9.04	6.77	-2.10	2.62	-5.04	-14.50	28.75
Citi 90Day Tbill	2.64	2.41	4.93	2.96	-5.78	-3.19	19.96	9.05	6.77	-2.15	2.55	-5.10	-14.93	27.32
Risk - Standard Deviation														
Vanguard Prime MM;Adm (VMRXX)	8.03	8.54	9.00	10.39	8.13	8.75	12.51	6.78	6.88	6.83	10.19	9.37	13.85	15.60
Citi 90Day Tbill	8.04	8.54	9.01	10.38	8.13	8.75	12.50	6.79	6.89	6.83	10.18	9.37	13.81	15.58
Risk - Semi-Variance														
Vanguard Prime MM;Adm (VMRXX)	5.60	6.21	6.11	6.83	5.84	6.52	8.36	4.22	5.21	3.58	6.77	6.60	10.17	8.01
Citi 90Day Tbill	5.61	6.22	6.11	6.82	5.84	6.51	8.36	4.22	5.21	3.58	6.77	6.60	10.14	8.02
Excess Returns														
Arithmetic Excess	0.17	0.23	0.14	0.20	0.24	0.26	0.13	-0.01	0.00	0.05	0.07	0.06	0.43	1.43
Geometric Excess	0.17	0.22	0.13	0.19	0.25	0.27	0.11	-0.01	0.00	0.05	0.07	0.06	0.51	1.12

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.01	0.03	0.04	0.10
Information Ratio	11.89	7.72	3.61	1.98
Downside Deviation	0.01	0.02	0.03	0.04
Skewness	0.39	0.44	0.32	3.63
Kurtosis	-1.69	-0.82	-0.74	14.98
Alpha	0.16	0.22	0.14	0.20
Beta	0.71	1.04	0.93	0.99
Residual Risk	0.01	0.03	0.04	0.10
R Squared	0.57	0.58	0.28	0.24

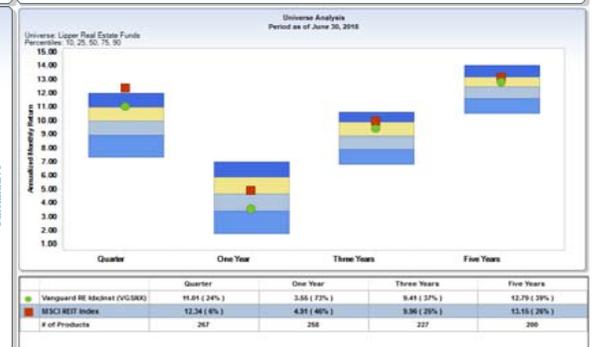
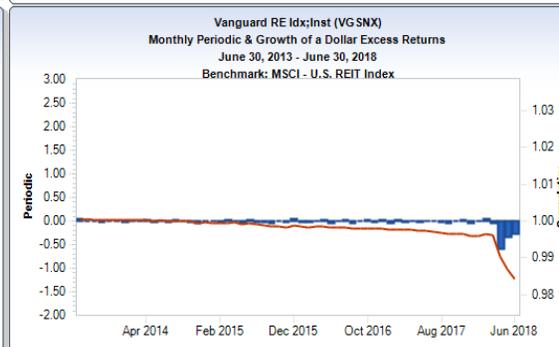
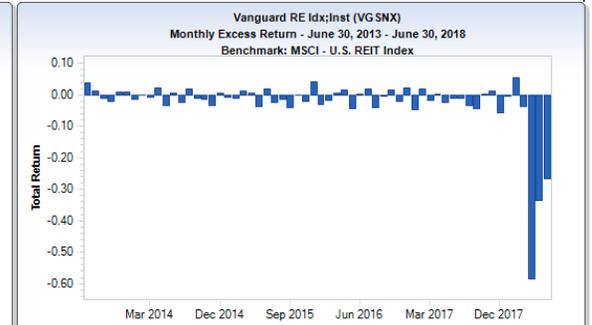
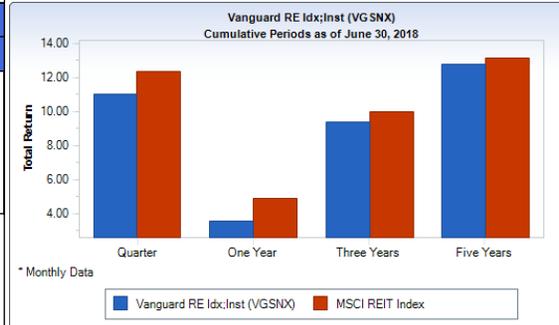


Performance Fact Sheet: Vanguard RE Idx;Inst (VGSNX)

Fund Family:	VANGUARD GROUP INC	Net Assets (\$MM):	\$8,502.20
Asset Class:	Real Estate	Expense Ratio:	0.10
Style Category:	Real Estate Funds	Front Load:	
Objective Category:	REAL ESTATE	12B-1 Fee:	0.00
Ticker:	VGSNX	Turnover:	6.00
Share Class:	I	Mgr Tenure:	15

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard RE Idx;Inst (VGSNX)	3.55	9.41	12.79	10.87	-2.04	4.77	22.86	42.02	9.35	15.04	11.40	21.85	10.19	-21.15
MSCI REIT Index	4.91	9.96	13.15	10.79	-1.83	4.85	22.95	42.14	9.36	15.16	11.38	21.77	9.23	-22.42
Risk - Standard Deviation														
Vanguard RE Idx;Inst (VGSNX)	12.81	14.32	16.56	21.94	9.19	15.96	25.27	13.56	12.58	10.58	14.35	13.42	41.74	40.64
MSCI REIT Index	13.09	14.37	16.60	22.20	9.12	15.96	25.28	13.57	12.64	10.55	14.39	13.42	42.28	41.57
Risk - Semi-Variance														
Vanguard RE Idx;Inst (VGSNX)	9.21	9.74	10.99	16.25	5.66	10.61	17.24	8.37	8.89	6.89	9.84	9.72	30.23	31.43
MSCI REIT Index	9.44	9.81	11.04	16.53	5.62	10.61	17.25	8.37	8.91	6.88	9.86	9.73	30.72	32.24
Excess Returns														
Arithmetic Excess	-1.36	-0.55	-0.36	0.08	-0.21	-0.08	-0.09	-0.12	-0.01	-0.12	0.02	0.08	0.96	1.27
Geometric Excess	-1.30	-0.50	-0.32	0.07	-0.21	-0.08	-0.07	-0.08	-0.01	-0.10	0.02	0.07	0.88	1.64

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.66	0.41	0.33	0.52
Information Ratio	-1.97	-1.23	-0.97	0.12
Downside Deviation	0.58	0.39	0.31	0.26
Skewness	-1.81	-3.55	-4.58	3.08
Kurtosis	2.82	13.70	23.57	20.12
Alpha	-1.24	-0.47	-0.29	0.14
Beta	0.97	1.00	1.00	0.99
Residual Risk	0.60	0.41	0.33	0.34
R Squared	1.00	1.00	1.00	1.00



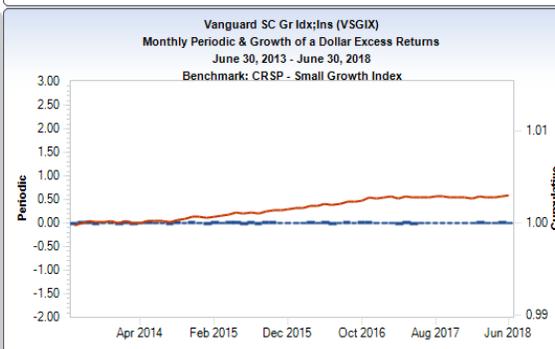
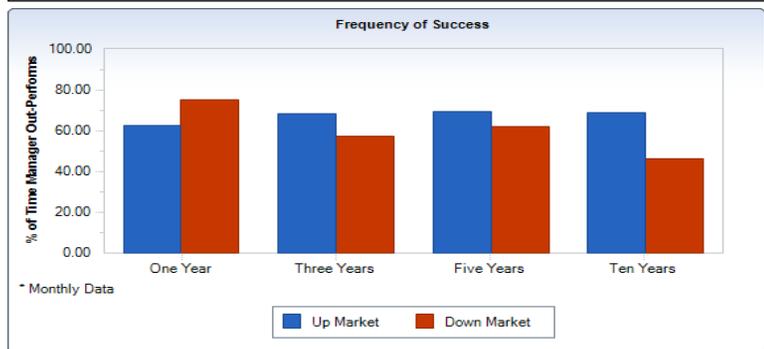
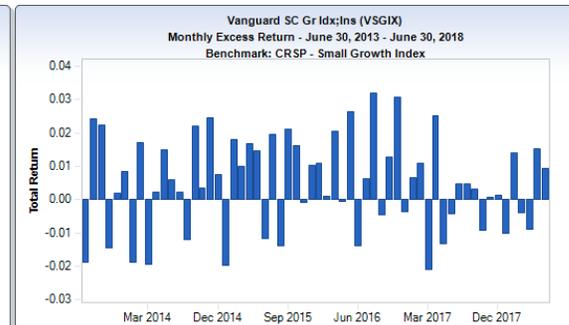
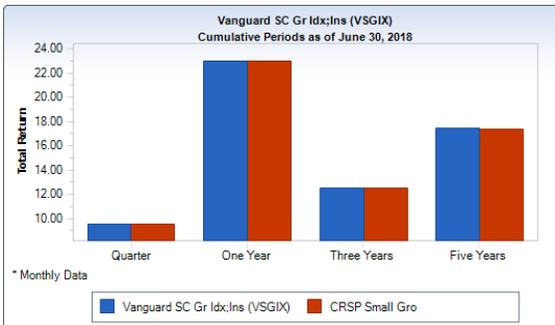
Performance Fact Sheet: Vanguard SC Gr Idx;Ins (VSGIX)

Fund Family: VANGUARD GROUP INC
 Asset Class: U.S. Equity
 Style Category: Small-Cap Growth Funds
 Objective Category: SMALL-CAP
 Ticker: VSGIX
 Share Class: I

Net Assets (\$MM): \$3,568.10
 Expense Ratio: 0.06
 Front Load: 0.00
 12B-1 Fee: 0.00
 Turnover: 19.00
 Mgr Tenure: 14

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard SC Gr Idx;Ins (VSGIX)	23.02	12.56	17.45	14.06	13.90	6.93	16.90	13.42	47.47	15.06	1.05	24.15	20.70	-24.85
CRSP Small Gro	22.99	12.48	17.38	13.46	13.89	6.80	16.81	13.36	47.75	12.83	-0.68	22.67	20.53	-24.33
Risk - Standard Deviation														
Vanguard SC Gr Idx;Ins (VSGIX)	10.00	12.55	12.44	15.70	9.86	15.86	16.35	11.65	8.17	9.48	16.29	15.89	23.47	24.30
CRSP Small Gro	10.00	12.53	12.44	15.15	9.85	15.84	16.36	11.65	7.80	9.36	15.93	14.21	21.70	23.62
Risk - Semi-Variance														
Vanguard SC Gr Idx;Ins (VSGIX)	6.96	9.19	9.39	12.02	6.78	11.27	12.52	8.86	6.15	7.18	10.86	12.37	17.43	17.84
CRSP Small Gro	6.96	9.18	9.39	11.58	6.78	11.26	12.52	8.85	5.57	6.98	10.63	11.05	16.03	17.37
Excess Returns														
Arithmetic Excess	0.03	0.08	0.07	0.60	0.01	0.13	0.09	0.06	-0.28	2.23	1.73	1.48	0.17	-0.52
Geometric Excess	0.02	0.07	0.06	0.53	0.01	0.12	0.08	0.05	-0.19	1.98	1.74	1.21	0.14	-0.69

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.03	0.05	0.05	1.43
Information Ratio	0.72	1.42	1.23	0.37
Downside Deviation	0.02	0.03	0.04	1.02
Skewness	0.07	0.15	-0.13	-0.27
Kurtosis	-0.98	-0.60	-0.85	2.78
Alpha	0.03	0.06	0.06	0.29
Beta	1.00	1.00	1.00	1.03
Residual Risk	0.03	0.05	0.05	1.34
R Squared	1.00	1.00	1.00	1.00



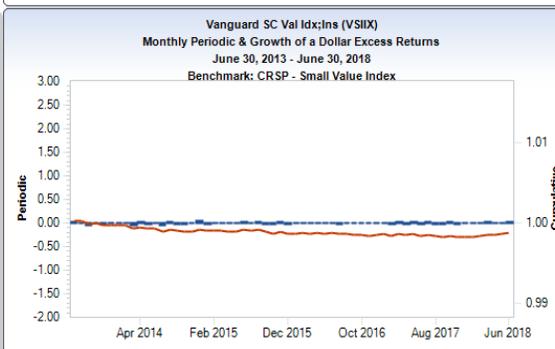
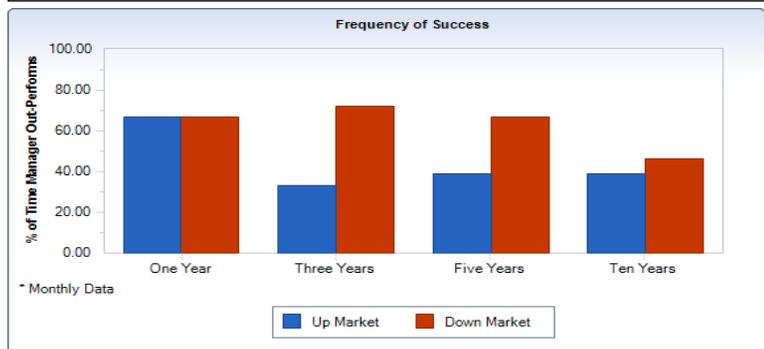
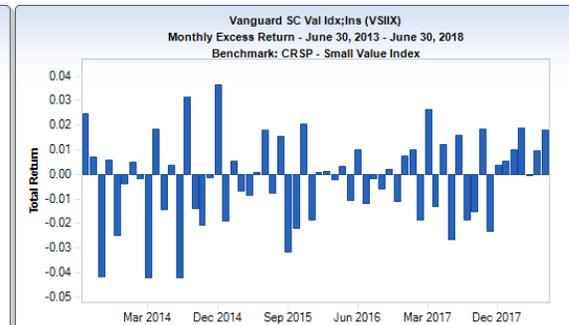
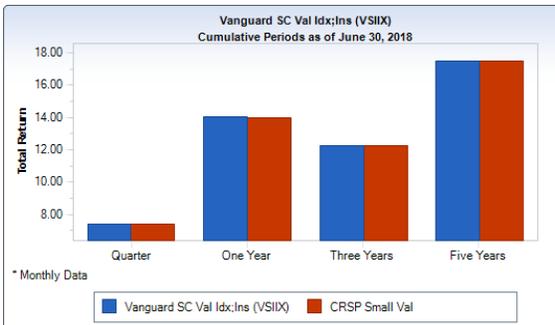
Performance Fact Sheet: Vanguard SC Val Idx;Ins (VSIIX)

Fund Family: VANGUARD GROUP INC
Asset Class: U.S. Equity
Style Category: Small-Cap Value Funds
Objective Category: SMALL-CAP
Ticker: VSIIX
Share Class: I

Net Assets (\$MM): \$3,711.30
Expense Ratio: 0.06
Front Load: 0.00
12B-1 Fee: 0.00
Turnover: 19.00
Mgr Tenure: 19

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard SC Val Idx;Ins (VSIIX)	14.02	12.27	17.48	14.22	4.45	20.49	14.30	20.56	45.73	16.13	-1.60	18.45	11.00	-14.97
CRSP Small Val	13.97	12.28	17.51	15.61	4.48	20.51	14.36	20.61	47.78	17.82	2.48	20.54	17.04	-16.44
Risk - Standard Deviation														
Vanguard SC Val Idx;Ins (VSIIX)	9.56	11.54	11.27	15.06	10.46	14.83	12.61	9.85	9.25	8.33	13.91	15.32	28.41	22.34
CRSP Small Val	9.57	11.55	11.27	14.86	10.48	14.85	12.61	9.82	9.51	7.60	13.88	15.47	27.37	21.63
Risk - Semi-Variance														
Vanguard SC Val Idx;Ins (VSIIX)	6.45	7.55	8.03	11.43	7.04	9.58	9.72	7.36	7.25	5.96	9.38	12.44	22.04	16.37
CRSP Small Val	6.45	7.56	8.03	11.26	7.05	9.59	9.72	7.33	7.38	5.74	9.82	12.52	21.10	15.83
Excess Returns														
Arithmetic Excess	0.05	-0.01	-0.03	-1.39	-0.03	-0.02	-0.06	-0.05	-2.05	-1.69	-4.08	-2.09	-6.04	1.47
Geometric Excess	0.04	-0.01	-0.03	-1.20	-0.03	-0.02	-0.05	-0.04	-1.39	-1.43	-3.98	-1.73	-5.16	1.76

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.05	0.05	0.06	1.33
Information Ratio	0.81	-0.20	-0.38	-0.90
Downside Deviation	0.04	0.04	0.05	1.04
Skewness	-0.78	-0.21	-0.28	-0.80
Kurtosis	-0.76	-0.89	-0.14	6.15
Alpha	0.06	0.00	-0.02	-1.24
Beta	1.00	1.00	1.00	1.00
Residual Risk	0.05	0.05	0.06	1.32
R Squared	1.00	1.00	1.00	1.00



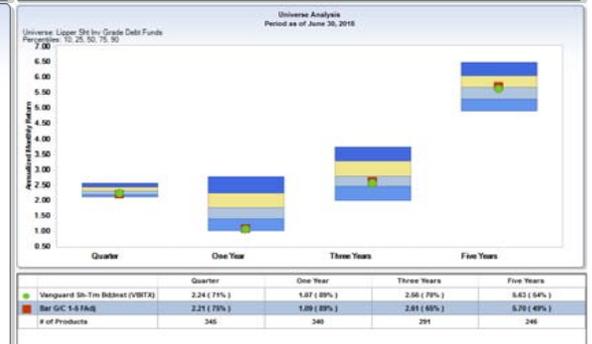
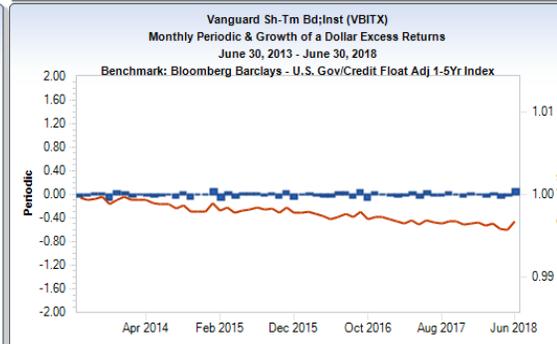
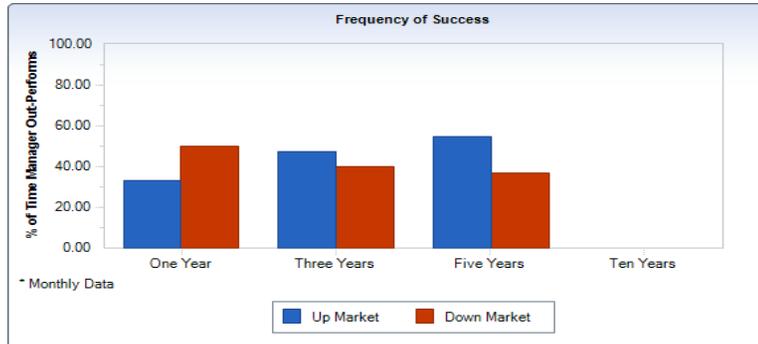
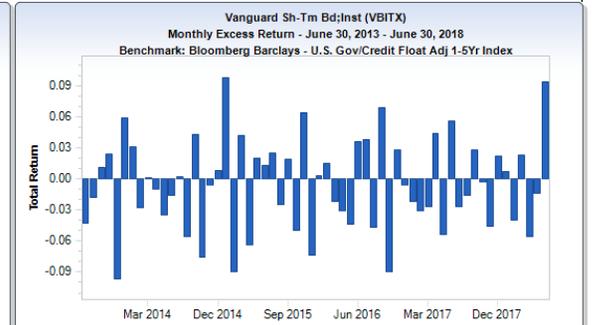
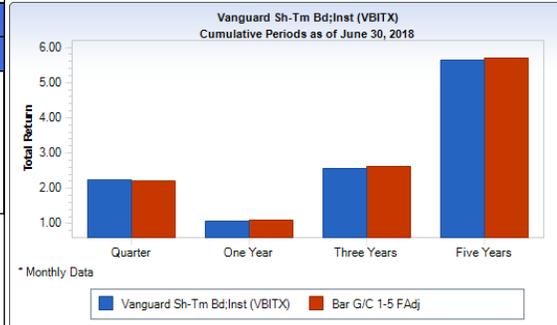
Performance Fact Sheet: Vanguard Sh-Tm Bd;Inst (VBITX)

Fund Family: VANGUARD GROUP INC
Asset Class: Taxable Fixed Income
Style Category: Sht Inv Grade Debt Funds
Objective Category: SHORT INV GRADE DEBT
Ticker: VBITX
Share Class: I

Net Assets (\$MM): \$5,255.10
Expense Ratio: 0.05
Front Load:
12B-1 Fee: 0.00
Turnover: 50.00
Mgr Tenure: 5

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Sh-Tm Bd;Inst (VBITX)	1.07	2.56	5.63	N/A	-5.46	-1.99	21.07	10.42	6.92	-0.16	N/A	N/A	N/A	N/A
Bar G/C 1-5 FAdj	1.09	2.61	5.70	4.94	-5.39	-1.94	21.10	10.57	7.03	-0.03	5.69	-1.35	-11.13	31.48
Risk - Standard Deviation														
Vanguard Sh-Tm Bd;Inst (VBITX)	8.04	8.46	9.23	N/A	8.19	8.42	13.50	6.89	6.23	6.58	N/A	N/A	N/A	N/A
Bar G/C 1-5 FAdj	8.03	8.47	9.19	10.34	8.20	8.45	13.36	6.82	6.27	6.52	9.81	10.18	13.23	15.78
Risk - Semi-Variance														
Vanguard Sh-Tm Bd;Inst (VBITX)	5.63	6.16	6.12	N/A	5.77	6.21	8.82	4.22	4.61	3.41	N/A	N/A	N/A	N/A
Bar G/C 1-5 FAdj	5.62	6.16	6.10	6.72	5.80	6.20	8.71	4.20	4.63	3.37	6.66	7.23	9.62	9.01
Excess Returns														
Arithmetic Excess	-0.02	-0.05	-0.07	N/A	-0.07	-0.05	-0.03	-0.15	-0.11	-0.13	N/A	N/A	N/A	N/A
Geometric Excess	-0.02	-0.05	-0.07	N/A	-0.07	-0.05	-0.02	-0.14	-0.10	-0.13	N/A	N/A	N/A	N/A

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.14	0.15	0.15	N/A
Information Ratio	-0.16	-0.33	-0.43	N/A
Downside Deviation	0.09	0.10	0.11	N/A
Skewness	1.00	0.24	0.10	N/A
Kurtosis	1.58	-0.44	-0.30	N/A
Alpha	-0.02	-0.05	-0.08	N/A
Beta	1.00	1.01	1.01	N/A
Residual Risk	0.14	0.15	0.16	N/A
R Squared	0.98	0.99	0.99	N/A



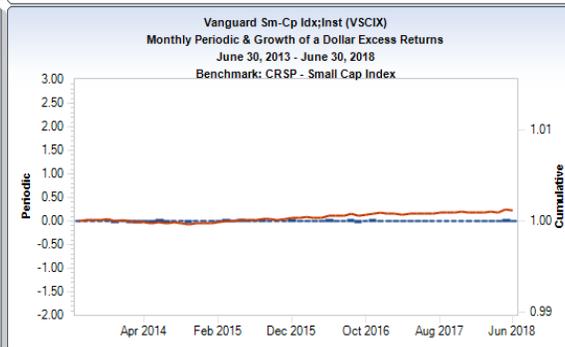
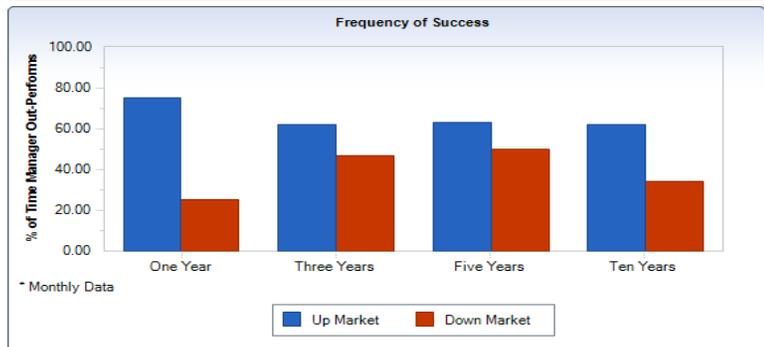
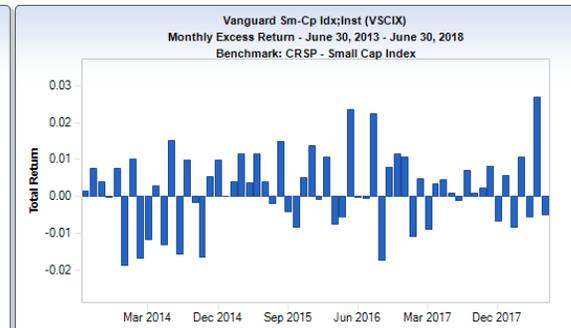
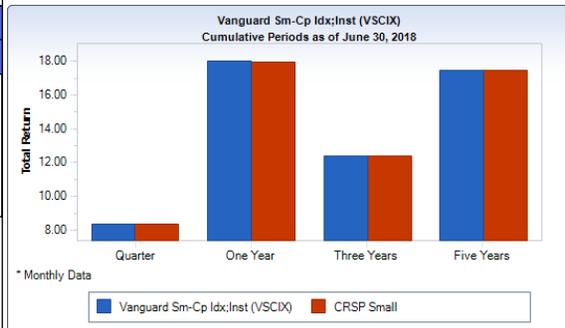
Performance Fact Sheet: Vanguard Sm-Cp Idx;Inst (VSCIX)

Fund Family: VANGUARD GROUP INC
 Asset Class: U.S. Equity
 Style Category: Small-Cap Core Funds
 Objective Category: SMALL-CAP
 Ticker: VSCIX
 Share Class: I

Net Assets (\$MM): \$16,589.30
 Expense Ratio: 0.04
 Front Load: 0.00
 12B-1 Fee: 0.00
 Turnover: 15.00
 Mgr Tenure: 2

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Sm-Cp Idx;Inst (VSCIX)	18.02	12.41	17.49	14.22	8.60	14.24	15.58	17.21	47.08	15.64	-0.23	21.25	15.84	-19.92
CRSP Small	17.98	12.37	17.46	14.53	8.60	14.18	15.51	17.24	47.78	15.96	0.58	21.30	18.99	-20.96
Risk - Standard Deviation														
Vanguard Sm-Cp Idx;Inst (VSCIX)	9.66	11.73	11.55	15.07	10.04	15.10	14.19	10.37	8.37	8.82	15.03	15.50	25.58	22.49
CRSP Small	9.63	11.72	11.54	14.73	10.03	15.08	14.19	10.36	8.58	8.35	14.58	14.75	24.18	21.97
Risk - Semi-Variance														
Vanguard Sm-Cp Idx;Inst (VSCIX)	6.61	8.11	8.46	11.49	6.78	10.28	10.93	7.80	6.42	6.52	10.11	12.40	19.55	16.26
CRSP Small	6.60	8.10	8.46	11.24	6.77	10.27	10.93	7.79	6.49	6.27	10.03	11.82	18.50	15.87
Excess Returns														
Arithmetic Excess	0.04	0.04	0.03	-0.31	0.00	0.06	0.07	-0.03	-0.70	-0.32	-0.81	-0.05	-3.15	1.04
Geometric Excess	0.03	0.04	0.03	-0.27	0.00	0.05	0.06	-0.03	-0.47	-0.28	-0.81	-0.04	-2.65	1.32

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.03	0.03	0.03	0.98
Information Ratio	1.04	0.99	0.68	-0.27
Downside Deviation	0.02	0.02	0.03	0.77
Skewness	1.29	0.50	-0.01	-1.24
Kurtosis	2.29	0.12	-0.03	8.62
Alpha	0.00	0.03	0.02	-0.41
Beta	1.00	1.00	1.00	1.01
Residual Risk	0.03	0.04	0.04	0.93
R Squared	1.00	1.00	1.00	1.00



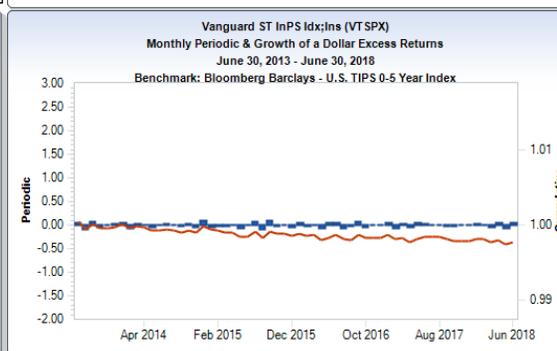
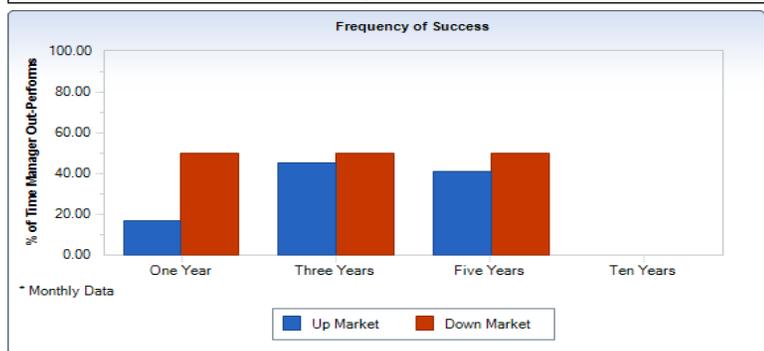
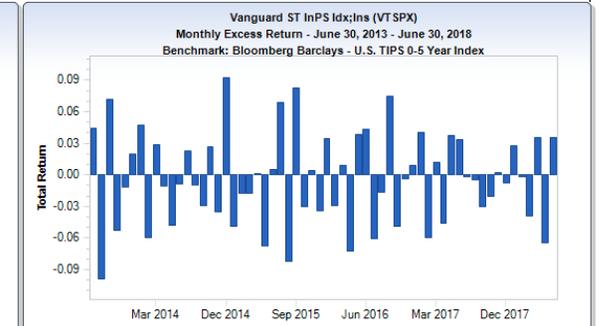
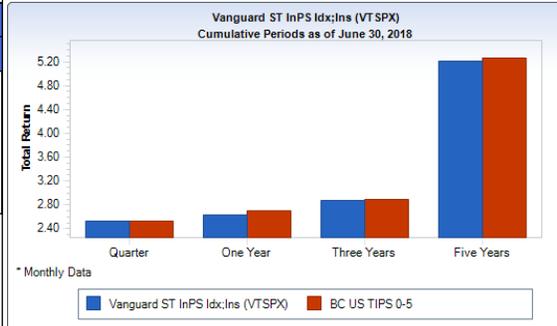
Performance Fact Sheet: Vanguard ST InPS Idx;Ins (VTSPX)

Fund Family: VANGUARD GROUP INC
 Asset Class: Taxable Fixed Income
 Style Category: Inflation Protected Bond
 Objective Category: INFLATION PROTECTED
 Ticker: VTSPX
 Share Class: I

Net Assets (\$MM): \$7,960.30
 Expense Ratio: 0.04
 Front Load:
 12B-1 Fee: 0.01
 Turnover: 27.00
 Mgr Tenure: 6

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard ST InPS Idx;Ins (VTSPX)	2.63	2.88	5.22	N/A	-5.79	-0.76	19.74	7.81	5.08	N/A	N/A	N/A	N/A	N/A
BC US TIPS 0-5	2.70	2.90	5.26	4.14	-5.75	-0.74	19.90	7.79	5.03	0.13	7.09	-2.09	-6.02	22.54
Risk - Standard Deviation														
Vanguard ST InPS Idx;Ins (VTSPX)	8.07	8.28	8.83	N/A	8.16	8.27	12.79	6.32	5.87	N/A	N/A	N/A	N/A	N/A
BC US TIPS 0-5	8.10	8.28	8.86	9.20	8.23	8.21	12.83	6.27	5.92	5.97	8.18	9.13	13.98	11.04
Risk - Semi-Variance														
Vanguard ST InPS Idx;Ins (VTSPX)	5.65	6.06	5.77	N/A	5.85	6.14	7.95	3.46	4.38	N/A	N/A	N/A	N/A	N/A
BC US TIPS 0-5	5.67	6.06	5.78	6.32	5.89	6.09	7.96	3.43	4.44	3.21	5.46	6.62	10.60	7.21
Excess Returns														
Arithmetic Excess	-0.07	-0.02	-0.04	N/A	-0.04	-0.02	-0.16	0.02	0.05	N/A	N/A	N/A	N/A	N/A
Geometric Excess	-0.07	-0.02	-0.04	N/A	-0.04	-0.02	-0.13	0.02	0.05	N/A	N/A	N/A	N/A	N/A

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.10	0.15	0.15	N/A
Information Ratio	-0.67	-0.15	-0.30	N/A
Downside Deviation	0.08	0.10	0.10	N/A
Skewness	-0.30	0.03	0.09	N/A
Kurtosis	-0.12	-0.70	-0.49	N/A
Alpha	-0.07	-0.03	-0.04	N/A
Beta	0.92	1.02	1.00	N/A
Residual Risk	0.09	0.15	0.15	N/A
R Squared	0.99	0.99	0.99	N/A



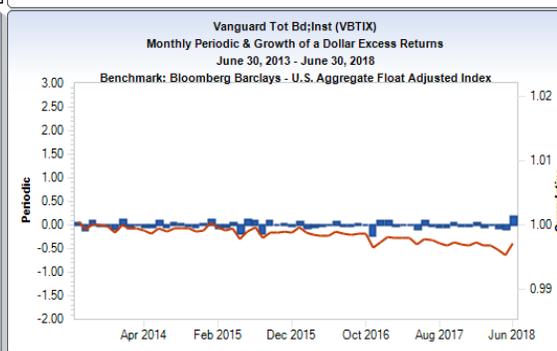
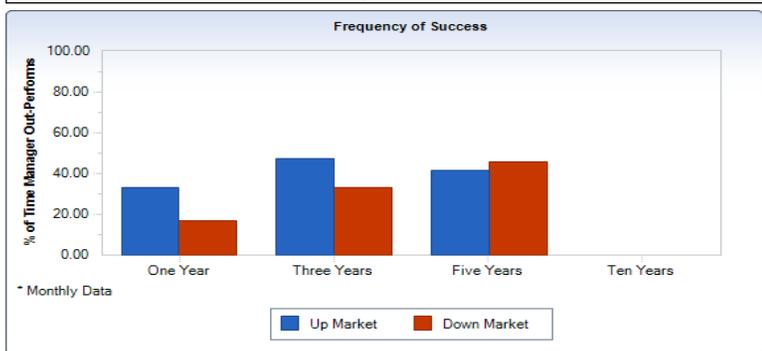
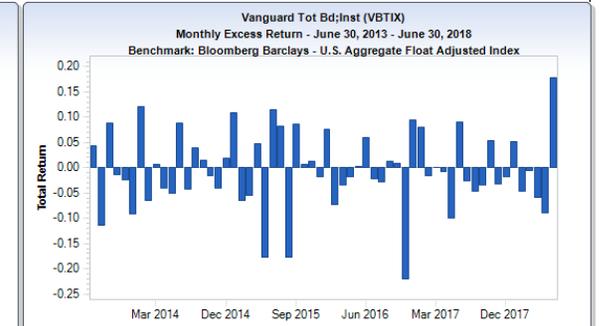
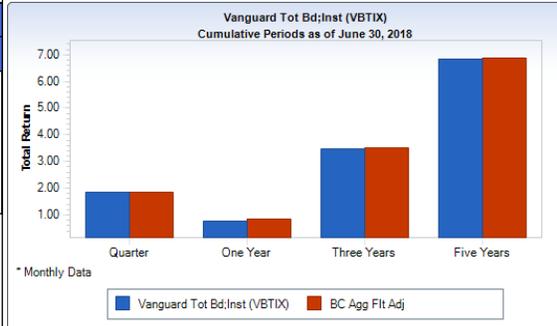
Performance Fact Sheet: Vanguard Tot Bd;Inst (VBTIX)

Fund Family: VANGUARD GROUP INC
 Asset Class: Taxable Fixed Income
 Style Category: Core Bond Funds
 Objective Category: CORE BOND
 Ticker: VBTIX
 Share Class: I

Net Assets (\$MM): \$39,557.50
 Expense Ratio: 0.04
 Front Load:
 12B-1 Fee: 0.00
 Turnover: 55.00
 Mgr Tenure: 5

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Tot Bd;Inst (VBTIX)	0.76	3.46	6.82	6.41	-3.24	-0.94	20.41	15.44	4.43	1.89	10.39	1.01	-9.90	31.58
BC Agg Flt Adj	0.84	3.52	6.88	N/A	-3.18	-0.80	20.46	15.40	4.61	2.01	10.59	1.01	N/A	N/A
Risk - Standard Deviation														
Vanguard Tot Bd;Inst (VBTIX)	7.99	8.58	9.73	10.59	8.44	8.57	15.00	7.23	5.86	7.09	10.97	11.49	13.26	14.21
BC Agg Flt Adj	7.98	8.54	9.70	N/A	8.48	8.43	14.94	7.15	5.91	7.09	10.88	11.26	N/A	N/A
Risk - Semi-Variance														
Vanguard Tot Bd;Inst (VBTIX)	5.80	6.23	6.33	6.92	5.90	6.14	9.41	4.26	4.00	3.47	7.23	8.05	9.51	9.22
BC Agg Flt Adj	5.79	6.21	6.34	N/A	5.97	6.01	9.46	4.28	4.09	3.49	7.26	7.91	N/A	N/A
Excess Returns														
Arithmetic Excess	-0.08	-0.06	-0.06	N/A	-0.06	-0.14	-0.05	0.04	-0.18	-0.12	-0.20	0.00	N/A	N/A
Geometric Excess	-0.08	-0.06	-0.06	N/A	-0.06	-0.14	-0.04	0.03	-0.17	-0.12	-0.18	0.00	N/A	N/A

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.25	0.26	0.26	N/A
Information Ratio	-0.31	-0.23	-0.22	N/A
Downside Deviation	0.13	0.19	0.19	N/A
Skewness	1.76	-0.42	-0.29	N/A
Kurtosis	3.64	1.64	0.76	N/A
Alpha	-0.11	-0.09	-0.11	N/A
Beta	0.98	1.03	1.03	N/A
Residual Risk	0.25	0.25	0.25	N/A
R Squared	0.99	0.99	0.99	N/A



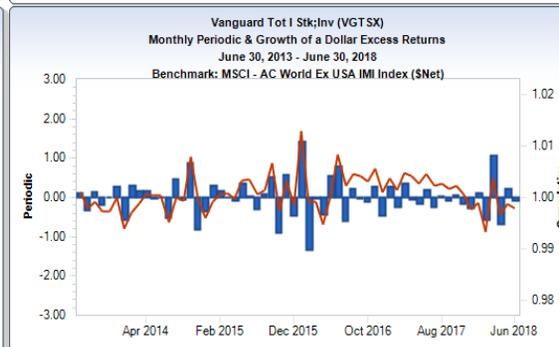
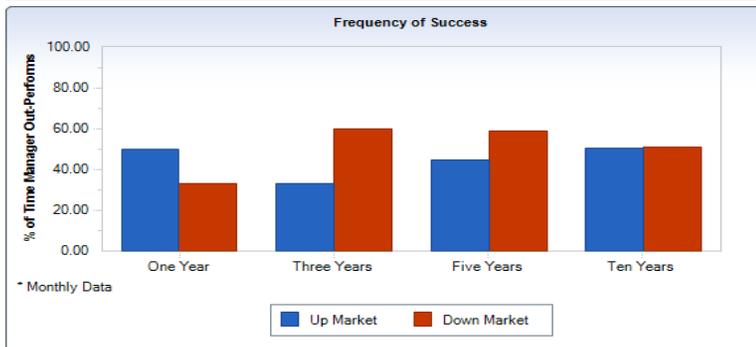
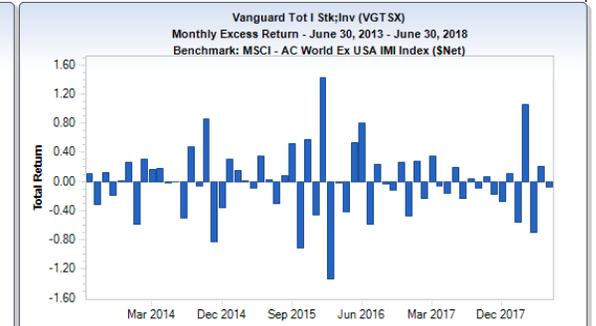
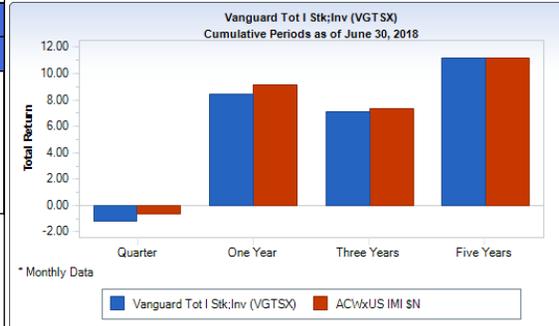
Performance Fact Sheet: Vanguard Tot I Stk;Inv (VGTSX)

Fund Family: VANGUARD GROUP INC
Asset Class: Non U.S. Equity
Style Category: International Multi-Cap Core
Objective Category: INTERNATIONAL
Ticker: VGTSX
Share Class: Investor

Net Assets (\$MM): \$125,611.30
Expense Ratio: 0.17
Front Load: 0.00
12B-1 Fee: 0.02
Turnover: 3.00
Mgr Tenure: 10

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Tot I Stk;Inv (VGTSX)	8.42	7.11	11.15	5.38	19.03	1.04	14.69	4.38	22.77	15.50	-12.44	5.31	16.11	-30.09
ACWxUS IMI \$N	9.14	7.31	11.19	5.64	19.41	0.80	14.41	4.78	23.60	14.44	-12.18	6.85	21.95	-32.44
Risk - Standard Deviation														
Vanguard Tot I Stk;Inv (VGTSX)	6.42	9.65	9.47	13.31	8.34	11.16	13.56	5.91	6.89	12.25	11.45	15.01	20.24	21.14
ACWxUS IMI \$N	6.36	10.09	9.63	13.04	8.31	11.55	13.89	5.69	7.55	11.97	10.96	13.64	17.64	21.36
Risk - Semi-Variance														
Vanguard Tot I Stk;Inv (VGTSX)	3.40	7.27	6.64	10.24	6.02	8.44	9.24	3.78	4.86	9.90	8.20	10.76	16.77	14.88
ACWxUS IMI \$N	3.55	7.58	6.82	10.13	6.07	8.64	9.61	3.61	5.46	9.69	7.65	10.12	14.23	16.44
Excess Returns														
Arithmetic Excess	-0.72	-0.20	-0.04	-0.26	-0.38	0.24	0.28	-0.40	-0.83	1.06	-0.26	-1.54	-5.84	2.35
Geometric Excess	-0.66	-0.19	-0.04	-0.25	-0.32	0.24	0.24	-0.38	-0.67	0.93	-0.30	-1.44	-4.79	3.48

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	1.51	1.84	1.62	2.54
Information Ratio	-0.43	-0.10	-0.02	-0.10
Downside Deviation	0.91	1.25	1.13	1.78
Skewness	1.25	0.28	0.16	-0.22
Kurtosis	3.43	1.31	1.56	7.13
Alpha	-0.59	0.10	0.13	-0.26
Beta	0.99	0.94	0.97	1.00
Residual Risk	1.50	1.65	1.56	2.46
R Squared	0.98	0.98	0.98	0.98



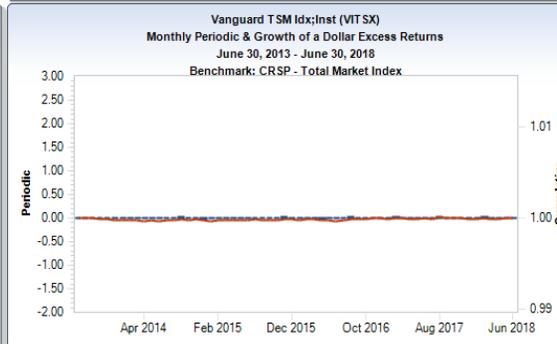
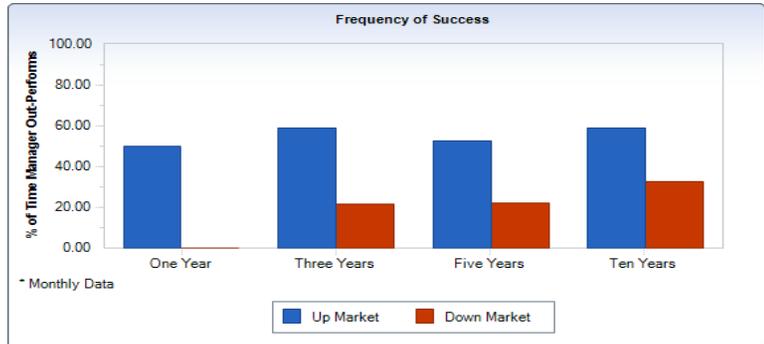
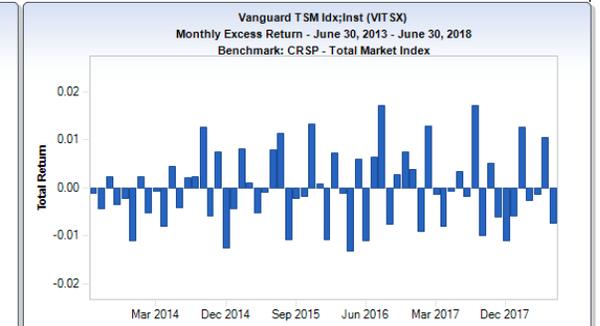
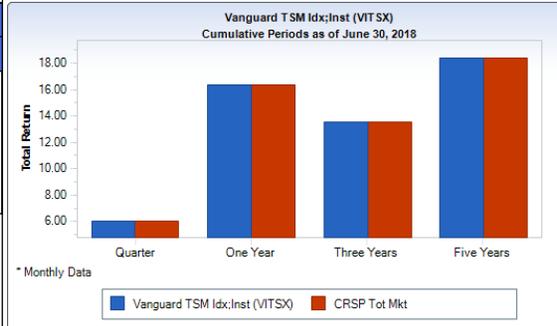
Performance Fact Sheet: Vanguard TSM Idx;Inst (VITSX)

Fund Family: VANGUARD GROUP INC
 Asset Class: U.S. Equity
 Style Category: Multi-Cap Core Funds
 Objective Category: GROWTH & INCOME
 Ticker: VITSX
 Share Class: I

Net Assets (\$MM): \$119,160.00
 Expense Ratio: 0.04
 Front Load: 0.00
 12B-1 Fee: 0.00
 Turnover: 3.00
 Mgr Tenure: 2

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard TSM Idx;Inst (VITSX)	16.32	13.56	18.40	13.25	13.22	8.79	20.43	22.73	42.47	13.84	3.59	11.10	9.42	-21.13
CRSP Tot Mkt	16.32	13.56	18.40	13.25	13.23	8.78	20.41	22.73	42.62	13.64	3.19	11.72	9.45	-21.19
Risk - Standard Deviation														
Vanguard TSM Idx;Inst (VITSX)	8.19	10.37	9.71	11.44	9.74	11.65	13.16	5.58	7.30	6.96	9.71	11.29	18.21	16.55
CRSP Tot Mkt	8.18	10.35	9.71	11.38	9.73	11.63	13.15	5.58	7.33	6.97	9.59	11.19	17.97	16.40
Risk - Semi-Variance														
Vanguard TSM Idx;Inst (VITSX)	5.74	7.34	7.02	8.72	6.55	8.17	9.82	3.63	5.25	4.89	6.59	8.97	14.20	11.57
CRSP Tot Mkt	5.73	7.33	7.01	8.67	6.55	8.15	9.81	3.63	5.27	4.91	6.51	8.90	13.95	11.45
Excess Returns														
Arithmetic Excess	0.00	0.00	0.00	0.00	-0.01	0.01	0.02	0.00	-0.15	0.20	0.40	-0.62	-0.03	0.06
Geometric Excess	0.00	0.00	0.00	0.00	-0.01	0.01	0.02	0.00	-0.11	0.18	0.39	-0.55	-0.03	0.08

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.03	0.03	0.03	0.19
Information Ratio	-0.03	0.15	-0.04	-0.03
Downside Deviation	0.02	0.02	0.02	0.15
Skewness	0.73	0.29	0.35	-1.44
Kurtosis	-0.70	-0.94	-0.59	11.68
Alpha	0.02	0.00	0.00	-0.03
Beta	1.00	1.00	1.00	1.00
Residual Risk	0.03	0.03	0.03	0.18
R Squared	1.00	1.00	1.00	1.00



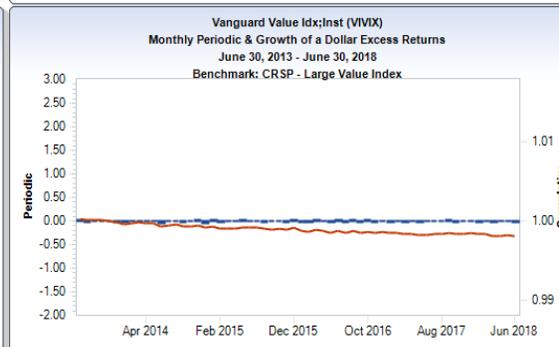
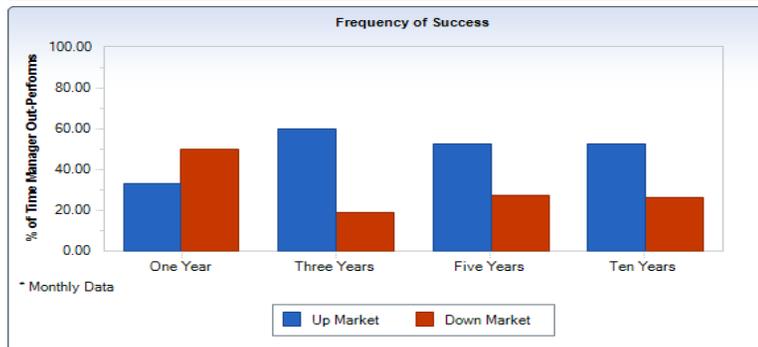
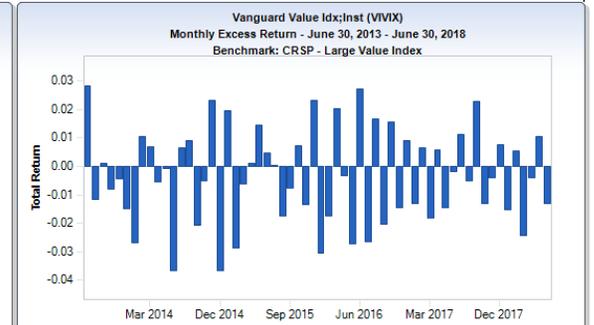
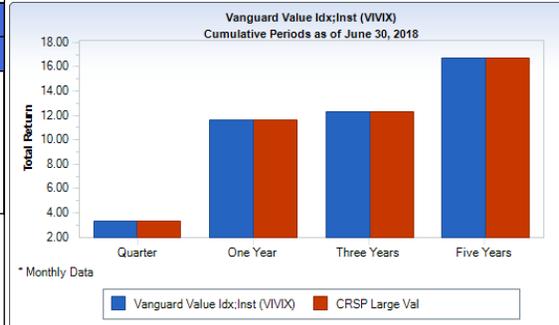
Performance Fact Sheet: Vanguard Value Idx;Inst (VIVIX)

Fund Family: VANGUARD GROUP INC
 Asset Class: U.S. Equity
 Style Category: Large-Cap Value Funds
 Objective Category: GROWTH & INCOME
 Ticker: VIVIX
 Share Class: I

Net Assets (\$MM): \$10,040.80
 Expense Ratio: 0.04
 Front Load:
 12B-1 Fee: 0.00
 Turnover: 9.00
 Mgr Tenure: 20

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Vanguard Value Idx;Inst (VIVIX)	11.62	12.27	16.69	12.15	9.44	12.83	18.90	23.41	42.02	12.65	3.67	8.52	1.74	-19.80
CRSP Large Val	11.65	12.32	16.73	12.50	9.46	12.89	18.90	23.50	42.30	14.12	3.94	10.00	0.57	-19.07
Risk - Standard Deviation														
Vanguard Value Idx;Inst (VIVIX)	7.82	9.82	9.13	11.35	9.79	10.86	11.76	4.33	8.73	7.01	9.96	9.64	21.62	15.50
CRSP Large Val	7.82	9.81	9.12	11.14	9.78	10.86	11.74	4.29	8.71	7.07	9.49	9.84	20.72	15.22
Risk - Semi-Variance														
Vanguard Value Idx;Inst (VIVIX)	5.39	6.82	6.53	8.74	6.33	7.59	8.89	3.06	6.24	5.04	7.27	7.60	17.34	10.80
CRSP Large Val	5.39	6.80	6.52	8.55	6.32	7.56	8.88	3.05	6.24	4.87	7.03	7.74	16.45	10.73
Excess Returns														
Arithmetic Excess	-0.03	-0.05	-0.04	-0.35	-0.02	-0.06	0.00	-0.09	-0.28	-1.47	-0.27	-1.48	1.17	-0.73
Geometric Excess	-0.03	-0.04	-0.03	-0.31	-0.02	-0.05	0.00	-0.07	-0.20	-1.29	-0.26	-1.35	1.16	-0.90

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.05	0.05	0.06	0.88
Information Ratio	-0.44	-0.70	-0.68	-0.35
Downside Deviation	0.03	0.04	0.04	0.68
Skewness	0.14	0.19	-0.04	-0.74
Kurtosis	-0.58	-0.95	-0.68	4.06
Alpha	-0.03	-0.05	-0.05	-0.49
Beta	1.00	1.00	1.00	1.02
Residual Risk	0.05	0.05	0.06	0.83
R Squared	1.00	1.00	1.00	1.00



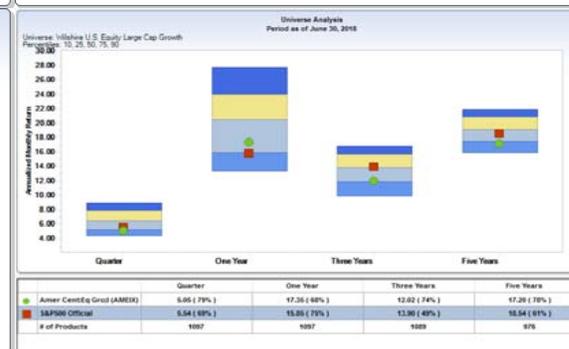
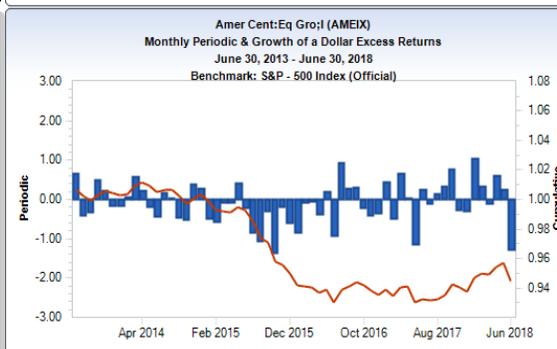
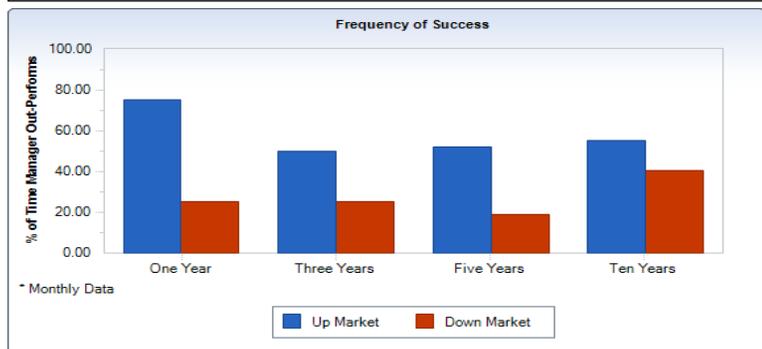
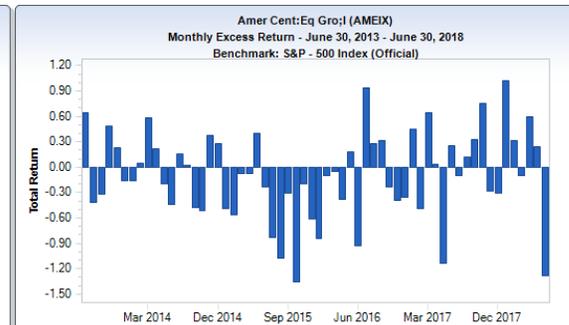
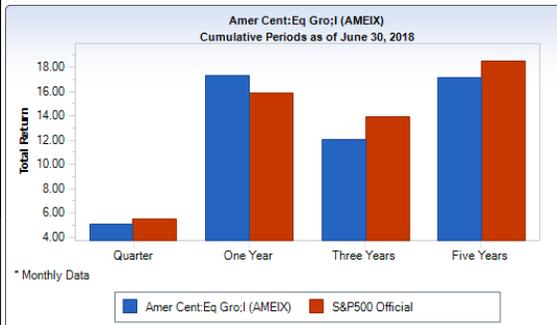
VI. Advisor Plan Fact Sheets

Performance Fact Sheet: Amer Cent:Eq Gro;I (AMEIX)

Fund Family:	AMERICAN CENTURY INVESTMENT MGMT INC	Net Assets (\$MM):	\$446.80
Asset Class:	U.S. Equity	Expense Ratio:	0.47
Style Category:	Multi-Cap Core Funds	Front Load:	
Objective Category:	GROWTH	12B-1 Fee:	
Ticker:	AMEIX	Turnover:	85.00
Share Class:	I	Mgr Tenure:	13

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Amer Cent:Eq Gro;I (AMEIX)	17.35	12.02	17.20	12.28	14.10	6.37	15.14	23.81	42.22	13.94	6.82	9.12	2.14	-18.21
S&P500 Official	15.85	13.90	18.54	13.07	13.83	8.09	21.59	23.94	41.29	13.43	4.64	9.06	7.41	-21.20
Risk - Standard Deviation														
Amer Cent:Eq Gro;I (AMEIX)	9.22	10.77	10.02	11.17	10.16	12.02	12.86	5.09	8.39	7.40	9.13	10.75	17.44	15.00
S&P500 Official	8.30	10.38	9.65	11.11	9.89	11.03	13.19	5.00	7.59	6.80	8.88	10.62	18.02	15.80
Risk - Semi-Variance														
Amer Cent:Eq Gro;I (AMEIX)	6.19	7.69	7.25	8.50	6.85	8.41	9.64	3.17	5.99	5.37	6.10	8.40	13.77	10.39
S&P500 Official	5.79	7.28	6.89	8.39	6.65	7.71	9.71	3.15	5.38	4.64	5.99	8.36	13.97	10.91
Excess Returns														
Arithmetic Excess	1.50	-1.88	-1.34	-0.79	0.27	-1.72	-6.45	-0.13	0.93	0.51	2.18	0.06	-5.27	2.99
Geometric Excess	1.29	-1.65	-1.13	-0.70	0.24	-1.59	-5.30	-0.10	0.66	0.45	2.08	0.06	-4.91	3.79

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	2.07	2.11	1.82	1.87
Information Ratio	0.62	-0.78	-0.62	-0.38
Downside Deviation	1.60	1.54	1.33	1.42
Skewness	-0.83	-0.19	-0.27	-0.62
Kurtosis	1.74	-0.46	-0.02	0.71
Alpha	0.51	-1.91	-1.49	-0.67
Beta	1.07	1.03	1.03	1.00
Residual Risk	2.04	2.14	1.83	1.90
R Squared	0.95	0.96	0.97	0.98

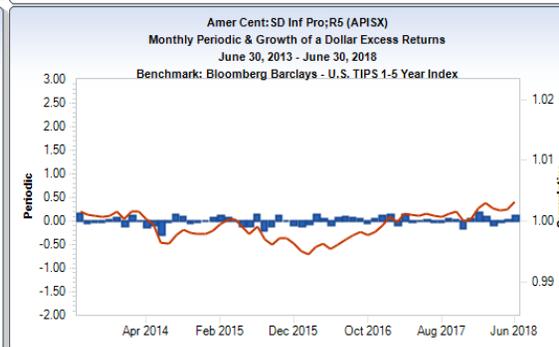
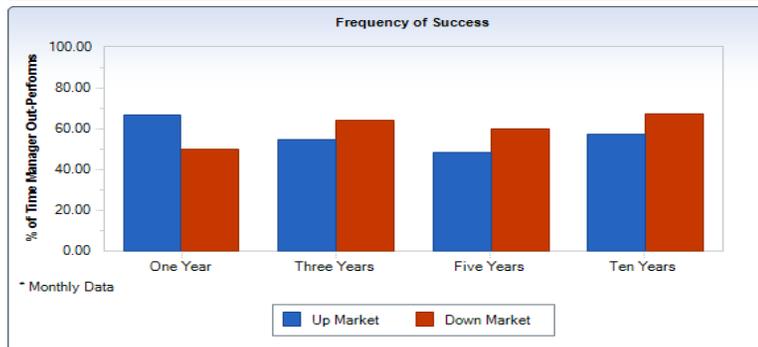
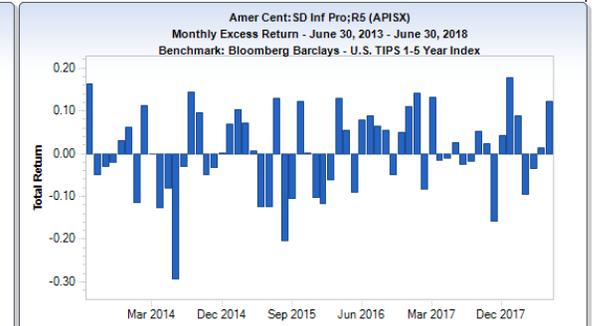
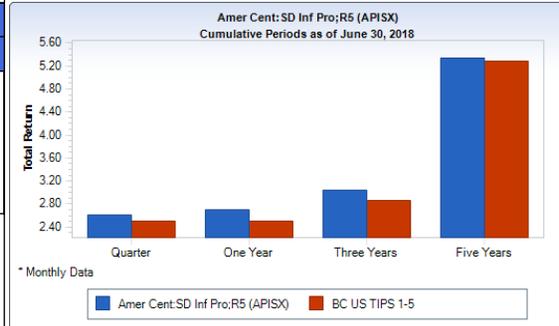


Performance Fact Sheet: Amer Cent:SD Inf Pro;R5 (APISX)

Fund Family:	AMERICAN CENTURY INVESTMENT MGMT INC	Net Assets (\$MM):	\$342.50
Asset Class:	Taxable Fixed Income	Expense Ratio:	0.37
Style Category:	Inflation Protected Bond	Front Load:	
Objective Category:	INFLATION PROTECTED	12B-1 Fee:	
Ticker:	APISX	Turnover:	31.00
Share Class:	I	Mgr Tenure:	

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Amer Cent:SD Inf Pro;R5 (APISX)	2.70	3.05	5.34	5.09	-5.72	-0.12	19.57	7.38	4.49	1.23	11.83	0.23	-5.22	23.71
BC US TIPS 1-5	2.50	2.87	5.28	4.23	-5.82	-0.43	19.75	7.79	4.62	0.37	7.48	-1.56	-5.32	21.94
Risk - Standard Deviation														
Amer Cent:SD Inf Pro;R5 (APISX)	8.13	8.17	8.83	9.57	8.18	8.02	13.00	6.31	5.61	5.78	7.72	11.73	14.97	12.83
BC US TIPS 1-5	8.11	8.25	8.88	9.15	8.22	8.15	13.00	6.30	5.71	5.89	8.01	9.20	14.03	10.88
Risk - Semi-Variance														
Amer Cent:SD Inf Pro;R5 (APISX)	5.64	5.99	5.71	6.70	5.84	6.01	7.87	3.52	4.13	3.13	5.21	8.36	11.35	9.67
BC US TIPS 1-5	5.68	6.05	5.76	6.30	5.88	6.04	7.97	3.42	4.25	3.21	5.35	6.68	10.71	7.27
Excess Returns														
Arithmetic Excess	0.20	0.18	0.06	0.86	0.10	0.31	-0.18	-0.41	-0.13	0.86	4.35	1.79	0.10	1.77
Geometric Excess	0.20	0.17	0.06	0.83	0.11	0.31	-0.15	-0.38	-0.12	0.86	4.05	1.82	0.11	1.45

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.32	0.33	0.34	2.61
Information Ratio	0.60	0.54	0.18	0.31
Downside Deviation	0.23	0.24	0.25	1.64
Skewness	-0.12	-0.36	-0.50	1.39
Kurtosis	0.24	-0.60	0.14	9.82
Alpha	0.17	0.17	0.06	0.49
Beta	0.88	1.03	1.00	1.27
Residual Risk	0.29	0.33	0.34	2.46
R Squared	0.90	0.95	0.96	0.76



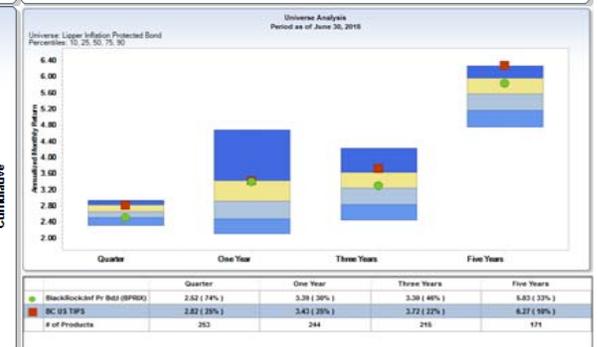
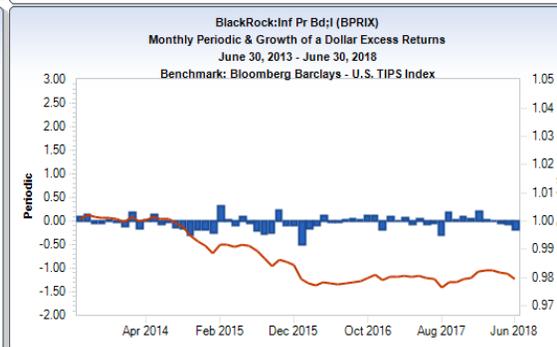
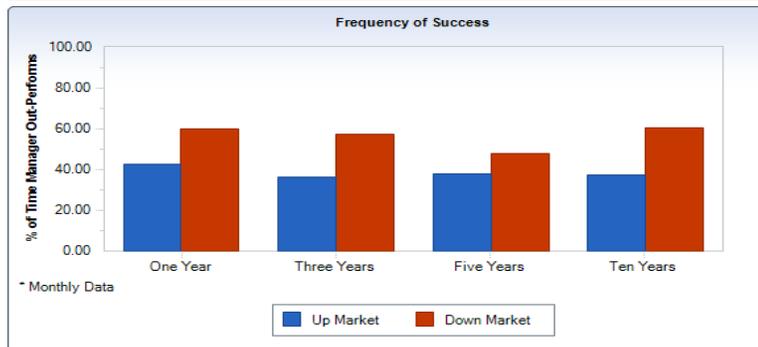
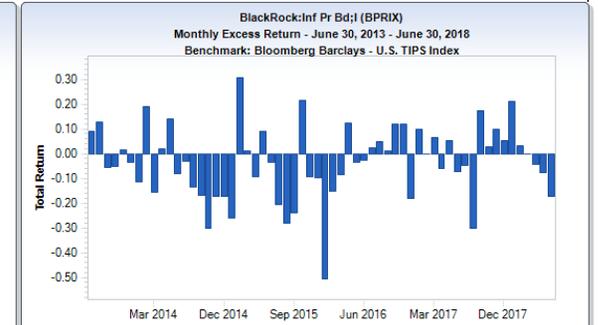
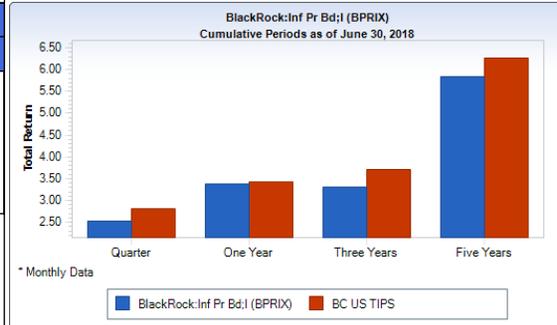
Performance Fact Sheet: BlackRock:Inf Pr Bd;I (BPRIX)

Fund Family: BLACKROCK INC
Asset Class: Taxable Fixed Income
Style Category: Inflation Protected Bond
Objective Category: INFLATION PROTECTED
Ticker: BPRIX
Share Class: I

Net Assets (\$MM): \$1,554.20
Expense Ratio: 0.39
Front Load:
12B-1 Fee:
Turnover: 76.00
Mgr Tenure: 0

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
BlackRock:Inf Pr Bd;I (BPRIX)	3.39	3.30	5.83	5.59	-3.68	0.52	17.40	11.89	-1.94	4.57	14.64	0.67	-6.22	25.62
BC US TIPS	3.43	3.72	6.27	5.75	-3.76	1.07	18.20	12.99	-2.46	4.60	16.37	0.76	-5.38	22.13
Risk - Standard Deviation														
BlackRock:Inf Pr Bd;I (BPRIX)	7.64	7.91	9.35	10.10	8.63	7.50	14.73	7.44	5.34	7.65	8.31	11.70	15.25	13.08
BC US TIPS	7.80	8.09	9.54	10.18	8.68	7.64	15.11	7.50	5.34	8.19	8.55	11.83	15.53	12.10
Risk - Semi-Variance														
BlackRock:Inf Pr Bd;I (BPRIX)	5.59	5.84	5.74	6.83	6.24	5.47	8.17	3.86	3.11	4.13	5.50	8.30	11.39	10.12
BC US TIPS	5.74	5.97	5.86	6.95	6.22	5.53	8.44	3.88	3.17	4.51	5.82	8.43	11.73	9.35
Excess Returns														
Arithmetic Excess	-0.04	-0.42	-0.44	-0.16	0.08	-0.55	-0.80	-1.10	0.52	-0.03	-1.73	-0.09	-0.84	3.49
Geometric Excess	-0.04	-0.40	-0.41	-0.15	0.08	-0.54	-0.68	-0.97	0.53	-0.03	-1.49	-0.09	-0.89	2.86

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.49	0.53	0.51	0.89
Information Ratio	-0.09	-0.76	-0.81	-0.17
Downside Deviation	0.37	0.41	0.38	0.61
Skewness	-0.59	-0.89	-0.42	0.20
Kurtosis	0.72	1.39	0.82	5.94
Alpha	0.05	-0.34	-0.37	0.01
Beta	0.88	0.95	0.96	0.94
Residual Risk	0.38	0.51	0.50	0.83
R Squared	0.97	0.97	0.98	0.98

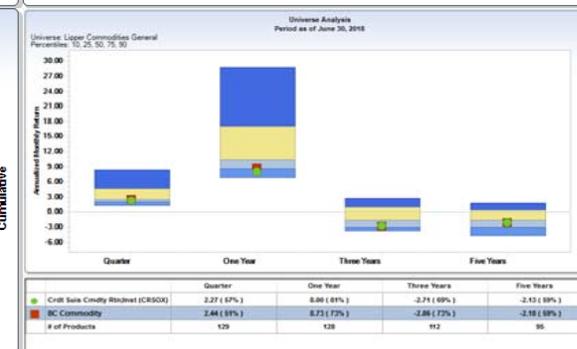
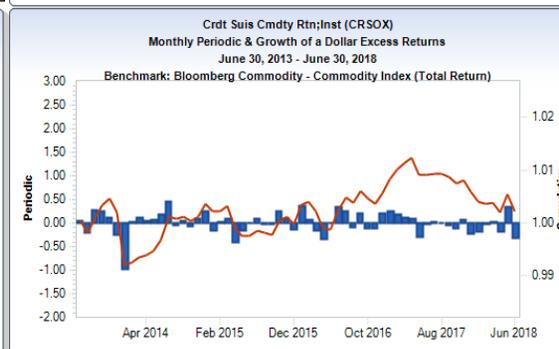
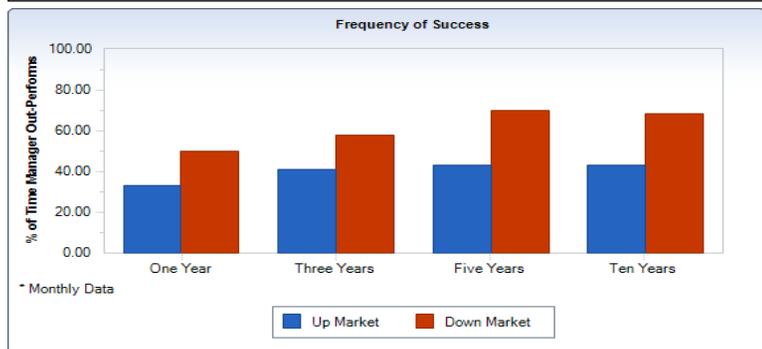
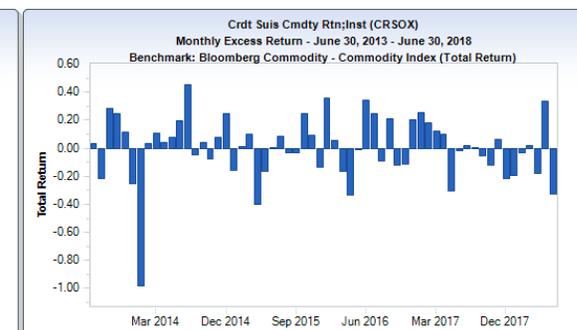


Performance Fact Sheet: Crdt Suis Cmdty Rtn;Inst (CRSOX)

Fund Family:	CREDIT SUISSE ASSET MANAGEMENT LLC	Net Assets (\$MM):	\$3,265.90
Asset Class:	U.S. Equity	Expense Ratio:	0.78
Style Category:	Commodities General	Front Load:	
Objective Category:	COMMODITIES	12B-1 Fee:	
Ticker:	CRSOX	Turnover:	86.00
Share Class:	I	Mgr Tenure:	13

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Crdt Suis Cmdty Rtn;Inst (CRSOX)	8.00	-2.71	-2.13	-6.55	-4.95	8.53	-9.99	-9.38	-3.90	-4.01	-10.12	10.82	2.03	-19.29
BC Commodity	8.73	-2.86	-2.18	-6.65	-4.98	7.90	-9.64	-9.52	-3.44	-3.25	-11.17	10.73	0.99	-19.51
Risk - Standard Deviation														
Crdt Suis Cmdty Rtn;Inst (CRSOX)	7.34	10.30	10.59	12.28	8.52	11.33	12.15	11.61	10.10	8.78	12.84	13.30	11.48	26.54
BC Commodity	7.18	10.35	10.87	12.49	8.55	11.46	12.49	12.34	10.32	9.53	12.88	13.52	11.82	26.56
Risk - Semi-Variance														
Crdt Suis Cmdty Rtn;Inst (CRSOX)	4.54	7.56	7.55	9.32	5.40	8.78	8.90	7.44	6.76	5.95	10.40	10.44	8.73	17.75
BC Commodity	4.38	7.63	7.73	9.44	5.39	8.87	9.17	7.80	6.89	6.38	10.43	10.58	8.97	17.65
Excess Returns														
Arithmetic Excess	-0.73	0.15	0.05	0.10	0.03	0.63	-0.35	0.14	-0.46	-0.76	1.05	0.09	1.04	0.22
Geometric Excess	-0.67	0.15	0.05	0.11	0.03	0.58	-0.39	0.15	-0.48	-0.79	1.18	0.08	1.03	0.27

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.59	0.65	0.79	0.91
Information Ratio	-1.13	0.24	0.06	0.11
Downside Deviation	0.39	0.45	0.62	0.69
Skewness	0.77	0.07	-1.30	-0.61
Kurtosis	1.65	-0.65	4.91	2.01
Alpha	-0.71	0.10	-0.08	-0.05
Beta	1.01	0.99	0.98	0.99
Residual Risk	0.60	0.65	0.77	0.89
R Squared	0.99	1.00	1.00	1.00



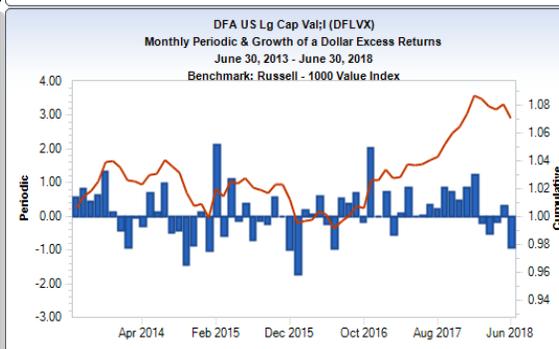
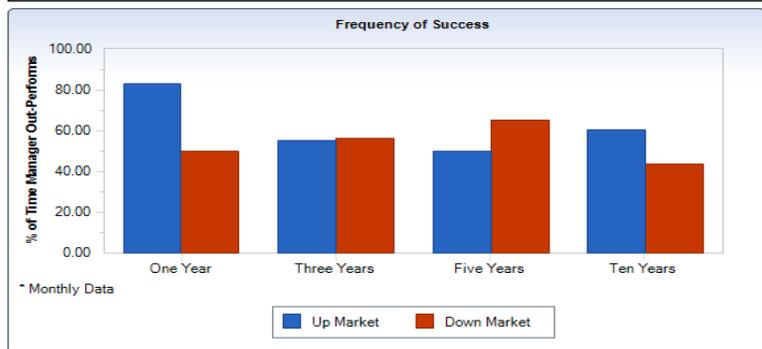
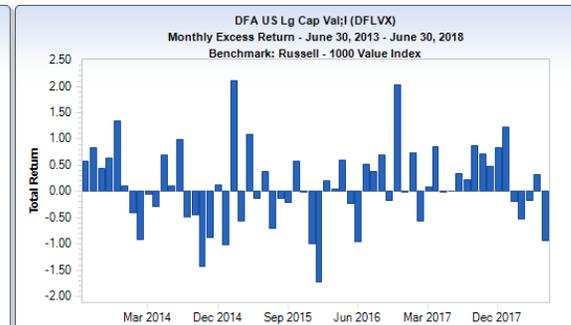
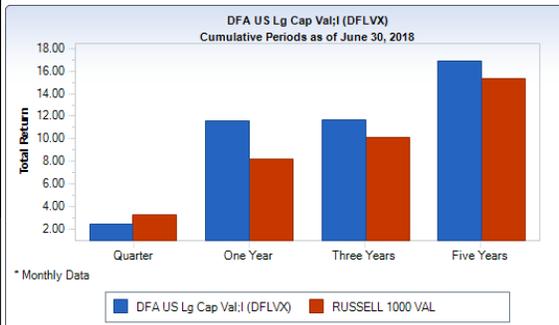
Performance Fact Sheet: DFA US Lg Cap Val;I (DFLVX)

Fund Family: DIMENSIONAL FUND ADVISORS LP
 Asset Class: U.S. Equity
 Style Category: Large-Cap Value Funds
 Objective Category: GROWTH & INCOME
 Ticker: DFLVX
 Share Class: I

Net Assets (\$MM): \$25,057.10
 Expense Ratio: 0.27
 Front Load:
 12B-1 Fee:
 Turnover: 15.00
 Mgr Tenure: 6

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
DFA US Lg Cap Val;I (DFLVX)	11.60	11.66	16.91	12.62	11.14	14.80	15.74	20.00	49.74	19.33	-0.74	13.91	10.58	-25.96
RUSSELL 1000 VAL	8.15	10.16	15.33	11.35	6.20	13.29	15.34	23.68	41.45	14.89	2.87	9.48	1.65	-21.02
Risk - Standard Deviation														
DFA US Lg Cap Val;I (DFLVX)	7.91	10.54	9.62	14.00	9.42	13.11	11.72	3.11	9.73	8.89	14.42	14.45	24.92	20.77
RUSSELL 1000 VAL	6.96	9.64	9.08	11.59	9.35	11.13	11.78	4.40	8.77	7.08	10.43	10.67	21.70	15.85
Risk - Semi-Variance														
DFA US Lg Cap Val;I (DFLVX)	5.27	7.28	6.77	10.89	6.21	9.23	8.53	2.24	6.93	7.24	10.09	11.39	19.76	15.29
RUSSELL 1000 VAL	4.87	6.70	6.54	9.00	6.02	7.84	8.88	2.99	6.34	5.17	7.39	8.56	17.52	11.01
Excess Returns														
Arithmetic Excess	3.45	1.50	1.58	1.27	4.94	1.51	0.40	-3.68	8.29	4.44	-3.61	4.43	8.93	-4.94
Geometric Excess	3.19	1.36	1.37	1.14	4.65	1.33	0.35	-2.98	5.86	3.86	-3.51	4.05	8.79	-6.25

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	2.18	2.45	2.62	4.31
Information Ratio	1.46	0.56	0.52	0.26
Downside Deviation	1.65	1.76	1.83	3.27
Skewness	-0.46	-0.08	0.13	-0.88
Kurtosis	-0.27	1.15	0.48	6.66
Alpha	2.30	0.48	0.45	-0.33
Beta	1.17	1.13	1.10	1.20
Residual Risk	1.68	2.13	2.47	2.96
R Squared	0.97	0.97	0.95	0.98



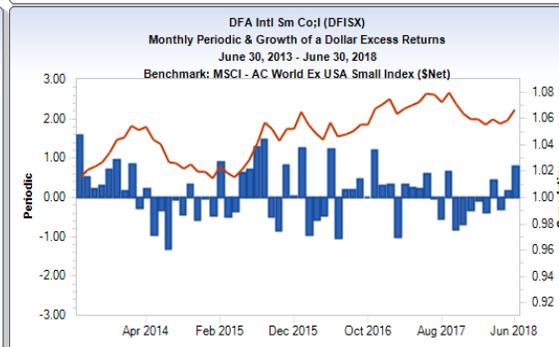
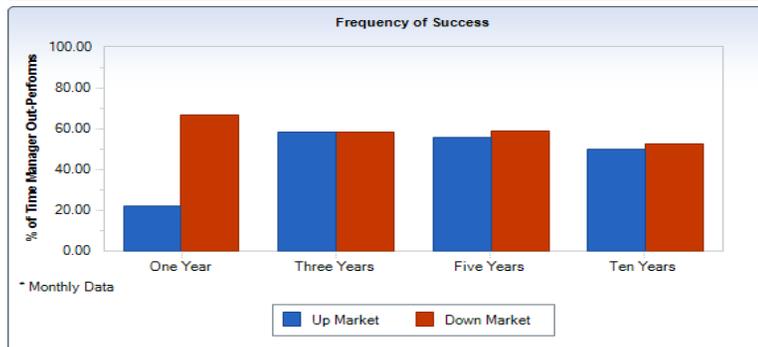
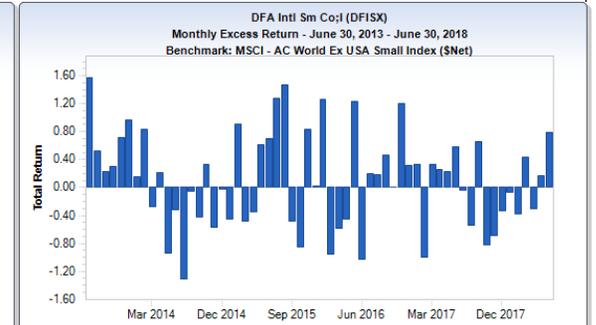
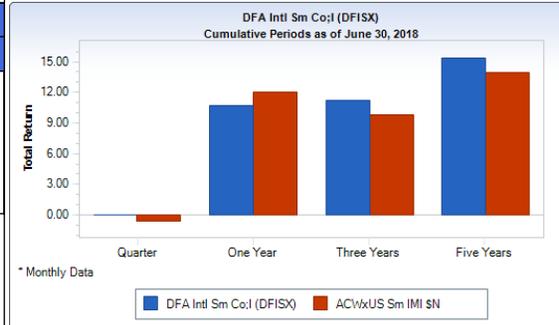
Performance Fact Sheet: DFA Intl Sm Co;I (DFISX)

Fund Family: DIMENSIONAL FUND ADVISORS LP
Asset Class: Non U.S. Equity
Style Category: International Small/Mid-Cap Core
Objective Category: INTERNATL SMALL-CAP
Ticker: DFISX
Share Class: I

Net Assets (\$MM): \$13,890.30
Expense Ratio: 0.53
Front Load: 0.00
12B-1 Fee:
Turnover:
Mgr Tenure:

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
DFA Intl Sm Co;I (DFISX)	10.72	11.17	15.38	9.07	21.69	2.13	27.02	2.14	36.02	16.22	-13.27	17.45	20.58	-29.82
ACWxUS Sm IMI \$N	12.00	9.84	13.90	8.55	22.99	0.32	23.05	4.62	27.78	15.88	-16.48	18.67	38.36	-37.76
Risk - Standard Deviation														
DFA Intl Sm Co;I (DFISX)	5.07	9.83	9.88	13.66	7.99	13.19	11.43	7.60	6.63	13.16	9.68	15.07	18.48	22.38
ACWxUS Sm IMI \$N	5.86	10.02	9.70	14.46	8.56	12.75	11.98	6.60	7.92	12.82	10.61	14.62	18.47	25.51
Risk - Semi-Variance														
DFA Intl Sm Co;I (DFISX)	2.72	7.22	6.89	10.48	5.69	9.37	7.88	4.26	4.72	10.50	7.27	11.51	14.03	16.86
ACWxUS Sm IMI \$N	3.44	7.43	6.84	11.22	6.17	9.19	8.19	4.12	5.98	9.64	7.93	11.45	13.78	20.10
Excess Returns														
Arithmetic Excess	-1.28	1.33	1.48	0.52	-1.30	1.81	3.97	-2.48	8.24	0.34	3.21	-1.22	-17.78	7.94
Geometric Excess	-1.14	1.21	1.30	0.48	-1.06	1.80	3.23	-2.37	6.45	0.29	3.84	-1.03	-12.85	12.76

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	1.80	2.43	2.37	3.40
Information Ratio	-0.63	0.50	0.55	0.14
Downside Deviation	1.18	1.68	1.66	2.23
Skewness	0.41	0.20	0.11	0.61
Kurtosis	-0.87	-0.76	-0.59	2.37
Alpha	-0.70	1.84	1.52	0.83
Beta	0.95	0.91	0.97	0.93
Residual Risk	1.75	2.19	2.37	3.02
R Squared	0.96	0.96	0.96	0.98

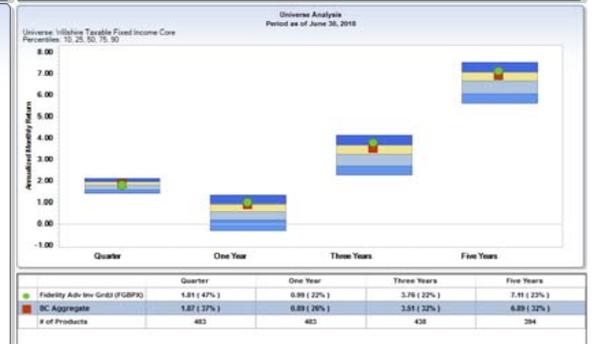
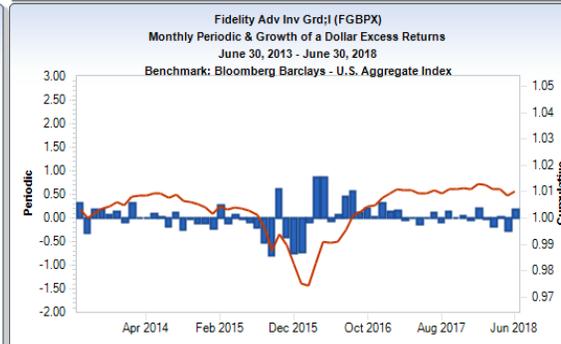
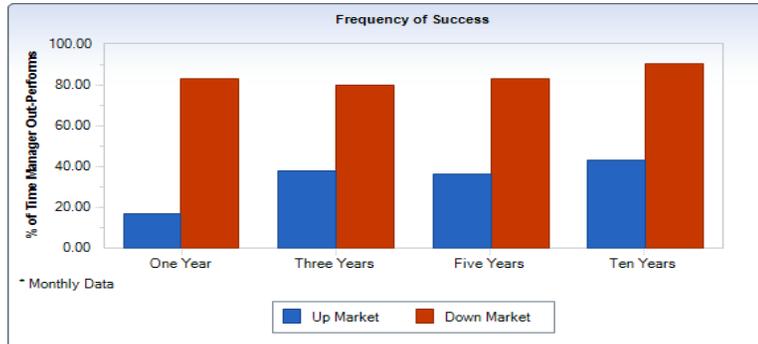
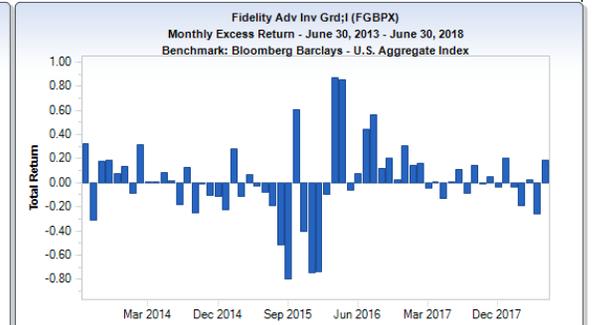
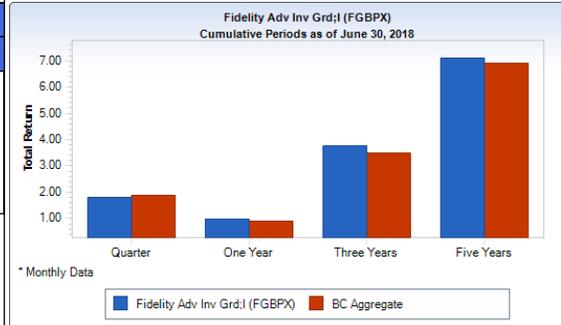


Performance Fact Sheet: Fidelity Adv Inv Grd;I (FGBPX)

Fund Family:	FIDELITY MANAGEMENT & RESEARCH	Net Assets (\$MM):	\$1,023.90
Asset Class:	Taxable Fixed Income	Expense Ratio:	0.50
Style Category:	Core Bond Funds	Front Load:	
Objective Category:	CORE BOND	12B-1 Fee:	
Ticker:	FGBPX	Turnover:	57.00
Share Class:	I	Mgr Tenure:	14

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Fidelity Adv Inv Grd;I (FGBPX)	0.99	3.76	7.11	6.77	-2.96	1.66	18.00	15.29	4.81	3.82	10.68	2.72	-1.70	16.14
BC Aggregate	0.89	3.51	6.89	6.45	-3.26	-0.90	20.59	15.52	4.56	1.90	10.51	0.98	-10.03	31.63
Risk - Standard Deviation														
Fidelity Adv Inv Grd;I (FGBPX)	7.75	7.98	9.22	9.57	8.44	7.76	14.22	6.94	5.58	7.14	10.36	10.79	12.15	11.61
BC Aggregate	7.99	8.57	9.68	10.54	8.49	8.47	14.81	7.18	5.89	7.06	10.87	11.27	13.23	14.34
Risk - Semi-Variance														
Fidelity Adv Inv Grd;I (FGBPX)	5.62	5.81	5.99	6.28	5.93	5.63	8.66	4.09	3.74	3.56	6.98	7.60	8.35	7.86
BC Aggregate	5.80	6.24	6.35	6.91	5.99	6.05	9.41	4.29	4.07	3.48	7.25	7.94	9.42	9.31
Excess Returns														
Arithmetic Excess	0.10	0.25	0.22	0.32	0.30	2.56	-2.59	-0.23	0.25	1.92	0.17	1.74	8.33	-15.49
Geometric Excess	0.10	0.24	0.21	0.30	0.31	2.58	-2.15	-0.20	0.24	1.88	0.15	1.72	9.26	-11.77

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.50	1.31	1.08	2.18
Information Ratio	0.20	0.18	0.19	0.14
Downside Deviation	0.37	0.94	0.76	1.83
Skewness	-0.44	-0.02	0.00	-3.03
Kurtosis	-0.35	0.86	1.94	19.59
Alpha	-0.13	0.28	0.25	0.36
Beta	0.87	0.96	0.97	0.98
Residual Risk	0.39	1.31	1.08	2.25
R Squared	0.96	0.79	0.86	0.68



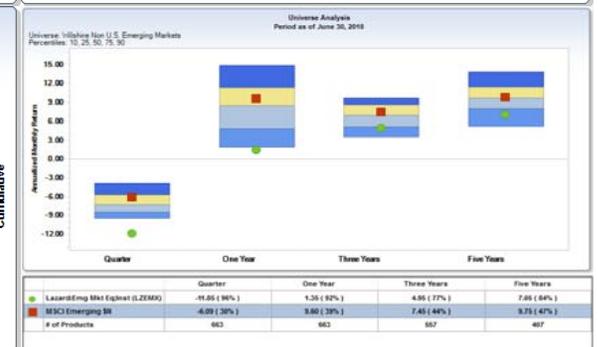
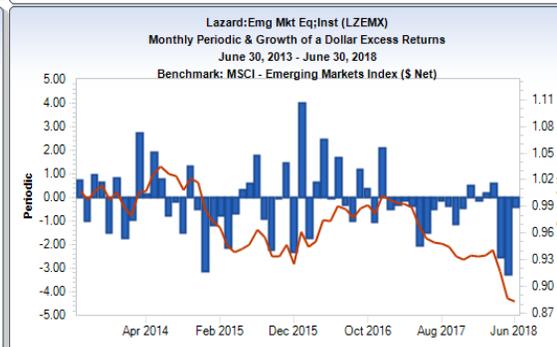
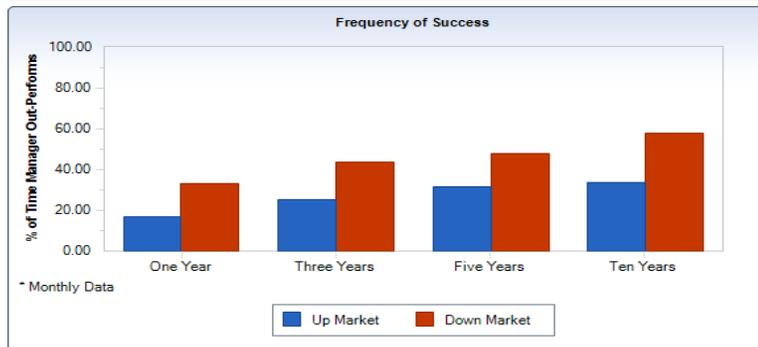
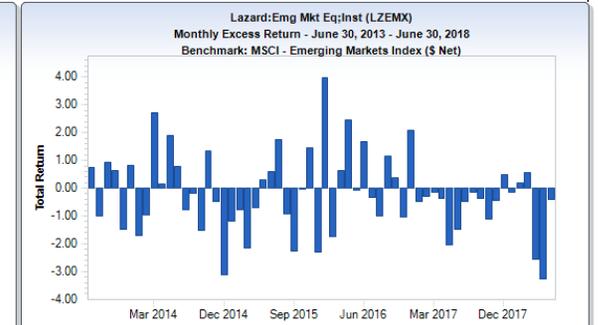
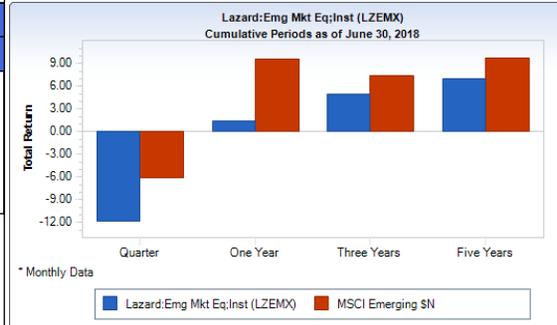
Performance Fact Sheet: Lazard:Emg Mkt Eq;Inst (LZEMX)

Fund Family: LAZARD ASSET MANAGEMENT LLC
Asset Class: Non U.S. Equity
Style Category: Emerging Markets Funds
Objective Category: EMERGING MARKETS
Ticker: LZEMX
Share Class: I

Net Assets (\$MM): \$9,434.50
Expense Ratio: 1.08
Front Load:
12B-1 Fee:
Turnover: 14.00
Mgr Tenure:

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Lazard:Emg Mkt Eq;Inst (LZEMX)	1.35	4.95	7.05	4.75	19.59	16.33	-4.26	4.46	5.89	19.65	-15.70	16.38	44.24	-34.81
MSCI Emerging \$N	9.60	7.45	9.75	4.95	28.26	7.34	2.04	6.63	3.95	15.60	-16.40	12.67	51.60	-41.63
Risk - Standard Deviation														
Lazard:Emg Mkt Eq;Inst (LZEMX)	11.92	13.22	12.99	16.78	9.54	14.43	14.63	13.42	10.99	16.53	14.61	14.09	20.29	27.83
MSCI Emerging \$N	10.52	12.43	11.81	16.12	9.03	14.26	15.26	9.13	9.98	15.33	16.23	12.53	18.92	28.33
Risk - Semi-Variance														
Lazard:Emg Mkt Eq;Inst (LZEMX)	8.15	9.59	9.26	12.55	7.25	10.61	9.50	10.55	6.77	11.38	9.94	9.87	15.19	21.79
MSCI Emerging \$N	6.16	8.77	8.11	11.91	6.51	10.03	9.65	7.17	6.57	10.59	10.46	9.31	13.33	20.93
Excess Returns														
Arithmetic Excess	-8.25	-2.50	-2.70	-0.20	-8.67	8.99	-6.30	-2.17	1.94	4.05	0.70	3.71	-7.36	6.82
Geometric Excess	-7.53	-2.33	-2.46	-0.19	-6.76	8.38	-6.17	-2.04	1.87	3.50	0.84	3.29	-4.85	11.68

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	4.05	5.18	4.95	5.36
Information Ratio	-1.86	-0.45	-0.50	-0.04
Downside Deviation	3.44	3.46	3.36	3.53
Skewness	-1.47	0.44	0.31	0.53
Kurtosis	1.60	0.81	0.47	0.98
Alpha	-7.87	-2.29	-2.67	-0.19
Beta	1.06	0.99	1.05	1.00
Residual Risk	3.90	5.09	4.85	5.26
R Squared	0.94	0.91	0.91	0.95



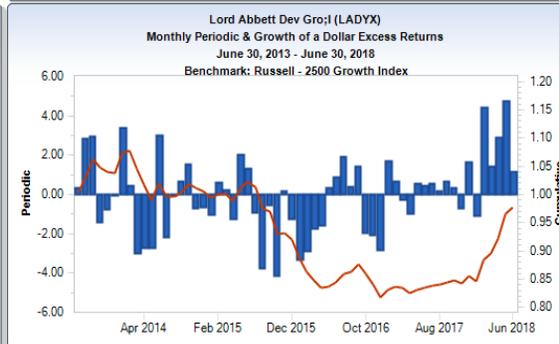
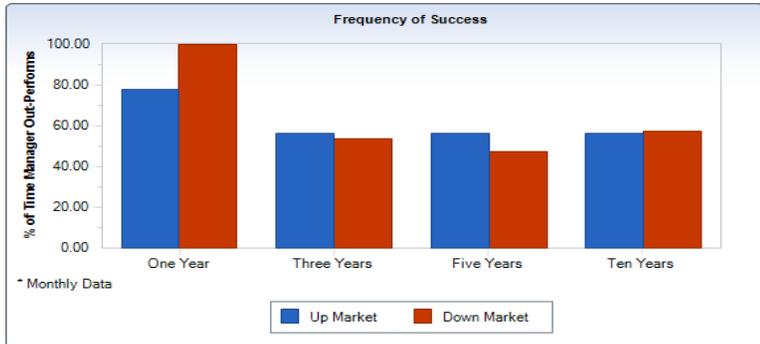
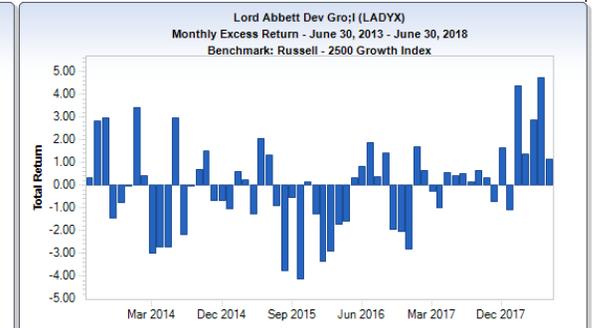
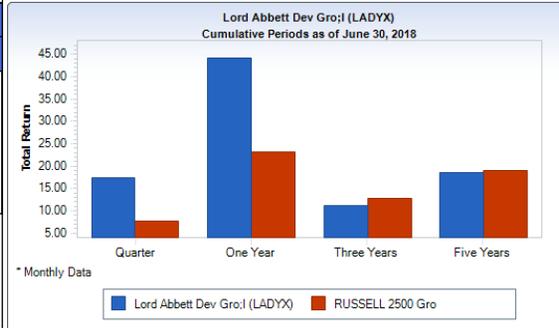
Performance Fact Sheet: Lord Abbett Dev Gro;I (LADYX)

Fund Family: Lord Abbett & Co LLC
Asset Class: U.S. Equity
Style Category: Small-Cap Growth Funds
Objective Category: SMALL-CAP
Ticker: LADYX
Share Class: I

Net Assets (\$MM): \$833.80
Expense Ratio: 0.71
Front Load:
12B-1 Fee:
Turnover: 134.00
Mgr Tenure: 17

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Lord Abbett Dev Gro;I (LADYX)	44.20	11.09	18.46	15.52	21.73	-5.84	9.57	12.91	68.39	8.28	1.15	29.85	25.31	-34.10
RUSSELL 2500 Gro	23.11	12.81	19.01	14.31	16.28	5.94	19.70	16.71	50.11	13.56	0.85	22.14	20.29	-26.83
Risk - Standard Deviation														
Lord Abbett Dev Gro;I (LADYX)	12.45	16.53	16.40	17.01	9.39	20.49	19.67	17.45	10.16	9.92	14.53	14.63	21.18	24.88
RUSSELL 2500 Gro	10.15	13.13	12.86	15.24	10.37	16.86	16.56	11.52	8.28	9.26	15.31	14.82	20.53	23.34
Risk - Semi-Variance														
Lord Abbett Dev Gro;I (LADYX)	7.63	12.38	12.64	12.92	6.20	14.95	15.00	13.15	7.18	7.35	10.52	10.44	15.31	17.99
RUSSELL 2500 Gro	7.18	9.61	9.73	11.69	7.16	11.93	12.83	8.81	6.00	6.85	10.28	11.36	15.08	17.27
Excess Returns														
Arithmetic Excess	21.09	-1.72	-0.55	1.21	5.45	-11.78	-10.13	-3.80	18.28	-5.28	0.30	7.71	5.02	-7.27
Geometric Excess	17.13	-1.52	-0.46	1.06	4.69	-11.12	-8.46	-3.26	12.18	-4.65	0.30	6.31	4.17	-9.94

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	6.37	7.05	6.79	6.44
Information Ratio	2.69	-0.22	-0.07	0.16
Downside Deviation	3.87	4.96	4.75	4.59
Skewness	0.80	0.17	0.14	0.02
Kurtosis	-0.11	0.31	-0.10	-0.28
Alpha	22.24	-2.33	-1.90	1.08
Beta	0.75	1.09	1.12	1.00
Residual Risk	6.20	7.00	6.66	6.46
R Squared	0.53	0.81	0.83	0.90

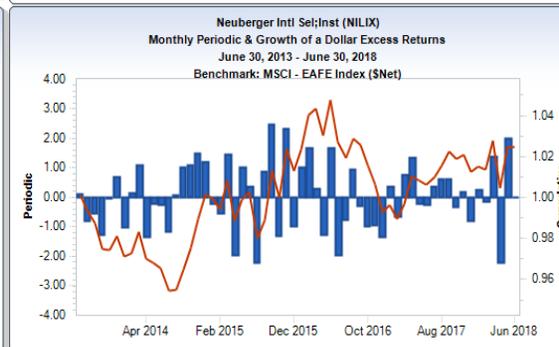
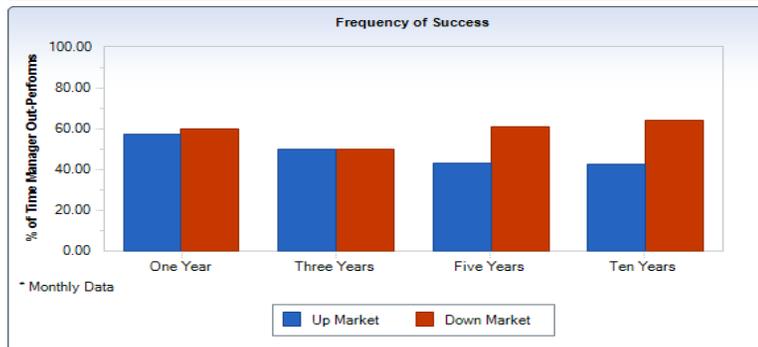
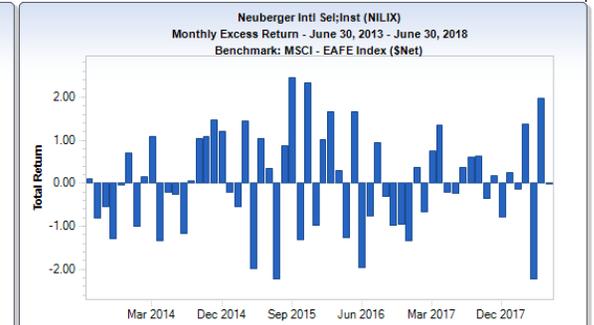
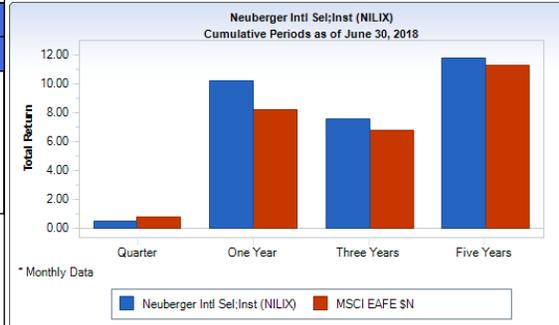


Performance Fact Sheet: Neuberger Intl Sel;Inst (NILIX)

Fund Family:	NEUBERGER BERMAN MANAGEMENT LLC	Net Assets (\$MM):	\$145.60
Asset Class:	Non U.S. Equity	Expense Ratio:	0.80
Style Category:	International Multi-Cap Growth	Front Load:	
Objective Category:	INTERNATIONAL	12B-1 Fee:	
Ticker:	NILIX	Turnover:	27.00
Share Class:	I	Mgr Tenure:	12

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Neuberger Intl Sel;Inst (NILIX)	10.21	7.52	11.79	5.99	19.16	-4.46	20.31	5.86	25.14	13.74	-9.15	9.13	13.92	-28.77
MSCI EAFE \$N	8.22	6.74	11.24	5.55	16.81	-2.49	18.95	3.68	31.03	14.71	-9.96	2.13	11.92	-29.18
Risk - Standard Deviation														
Neuberger Intl Sel;Inst (NILIX)	6.21	10.63	10.26	12.42	10.18	12.62	13.60	6.76	5.70	9.39	11.50	12.80	13.30	21.92
MSCI EAFE \$N	6.43	11.21	10.68	13.31	9.22	12.50	15.76	6.33	7.68	11.98	11.25	14.76	18.36	19.76
Risk - Semi-Variance														
Neuberger Intl Sel;Inst (NILIX)	3.92	7.94	7.24	9.78	7.48	9.02	9.50	3.20	4.42	7.98	8.55	9.13	10.77	17.16
MSCI EAFE \$N	3.91	8.33	7.51	10.21	6.86	9.38	10.89	3.51	5.48	10.03	7.60	10.89	14.79	14.90
Excess Returns														
Arithmetic Excess	1.99	0.78	0.55	0.44	2.35	-1.97	1.36	2.18	-5.89	-0.97	0.81	7.00	2.00	0.41
Geometric Excess	1.84	0.73	0.49	0.42	2.01	-2.02	1.14	2.10	-4.50	-0.85	0.90	6.85	1.79	0.58

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	3.65	4.24	3.89	4.96
Information Ratio	0.50	0.17	0.12	0.08
Downside Deviation	2.75	2.98	2.75	3.47
Skewness	-0.61	0.04	0.00	0.13
Kurtosis	1.92	-0.56	-0.55	-0.04
Alpha	2.51	1.24	1.16	0.60
Beta	0.87	0.88	0.88	0.92
Residual Risk	3.47	3.98	3.67	4.71
R Squared	0.84	0.88	0.89	0.93

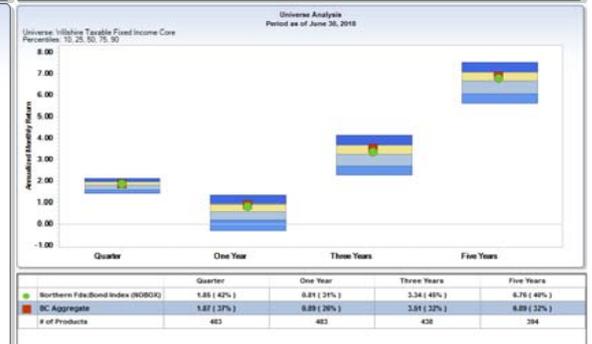
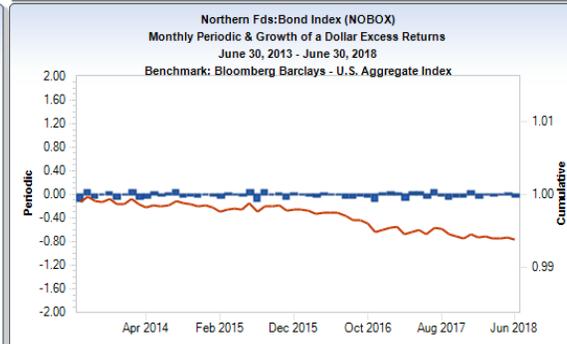
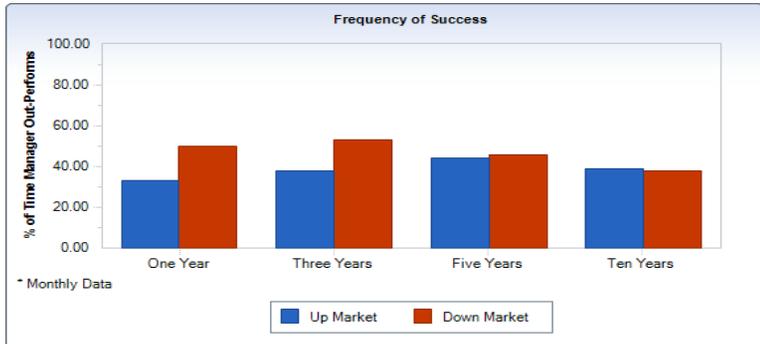
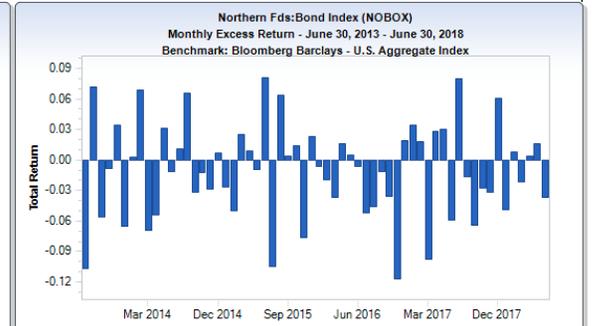
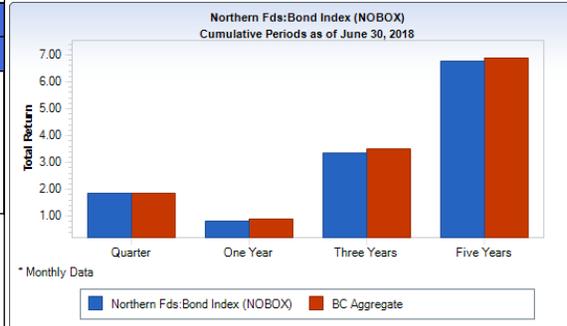


Performance Fact Sheet: Northern Fds:Bond Index (NOBOX)

Fund Family:	Northern Trust Investments Inc	Net Assets (\$MM):	\$2,776.70
Asset Class:	Taxable Fixed Income	Expense Ratio:	0.15
Style Category:	Core Bond Funds	Front Load:	
Objective Category:	CORE BOND	12B-1 Fee:	
Ticker:	NOBOX	Turnover:	45.00
Share Class:	Standard	Mgr Tenure:	11

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Northern Fds:Bond Index (NOBOX)	0.81	3.34	6.76	6.23	-3.31	-1.19	20.53	15.49	4.29	1.73	10.30	0.66	-11.15	32.37
BC Aggregate	0.89	3.51	6.89	6.45	-3.26	-0.90	20.59	15.52	4.56	1.90	10.51	0.98	-10.03	31.63
Risk - Standard Deviation														
Northern Fds:Bond Index (NOBOX)	7.95	8.57	9.69	10.65	8.46	8.50	14.76	7.19	6.00	7.02	11.00	11.39	13.25	14.84
BC Aggregate	7.99	8.57	9.68	10.54	8.49	8.47	14.81	7.18	5.89	7.06	10.87	11.27	13.23	14.34
Risk - Semi-Variance														
Northern Fds:Bond Index (NOBOX)	5.76	6.23	6.35	6.97	5.95	6.06	9.38	4.30	4.16	3.46	7.33	8.02	9.52	9.52
BC Aggregate	5.80	6.24	6.35	6.91	5.99	6.05	9.41	4.29	4.07	3.48	7.25	7.94	9.42	9.31
Excess Returns														
Arithmetic Excess	-0.08	-0.17	-0.13	-0.22	-0.05	-0.29	-0.06	-0.03	-0.27	-0.17	-0.21	-0.32	-1.12	0.74
Geometric Excess	-0.08	-0.16	-0.12	-0.21	-0.05	-0.29	-0.05	-0.03	-0.26	-0.17	-0.19	-0.32	-1.24	0.56

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.15	0.16	0.16	0.32
Information Ratio	-0.54	-1.04	-0.76	-0.64
Downside Deviation	0.09	0.12	0.12	0.21
Skewness	0.88	-0.29	-0.13	1.26
Kurtosis	0.23	-0.06	-0.24	8.73
Alpha	-0.04	-0.18	-0.14	-0.18
Beta	1.02	1.02	1.01	0.99
Residual Risk	0.13	0.15	0.16	0.33
R Squared	1.00	1.00	1.00	0.99

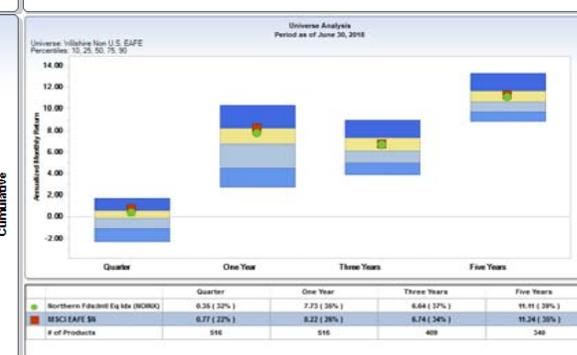
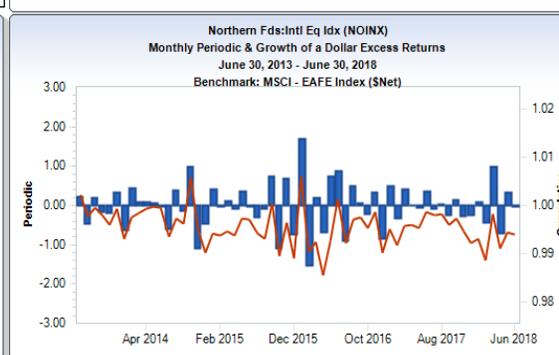
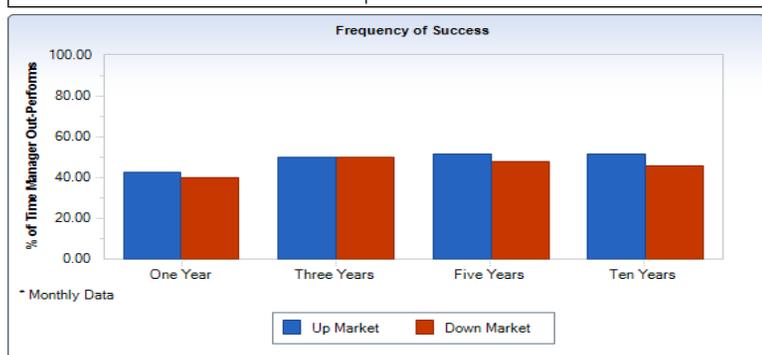
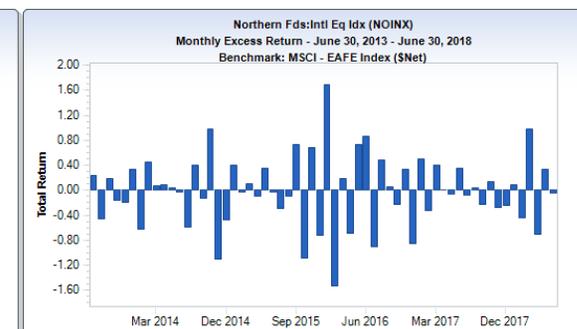
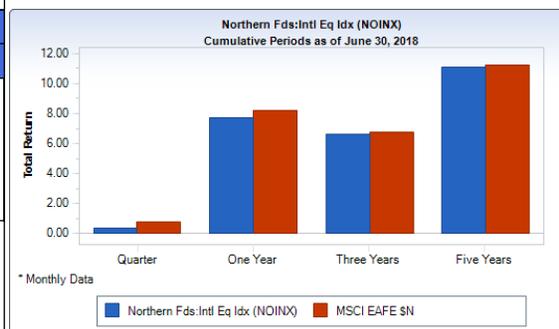


Performance Fact Sheet: Northern Fds: Intl Eq Idx (NOINX)

Fund Family:	Northern Trust Investments Inc	Net Assets (\$MM):	\$5,908.30
Asset Class:	Non U.S. Equity	Expense Ratio:	0.25
Style Category:	International Multi-Cap Core	Front Load:	
Objective Category:	INTERNATIONAL	12B-1 Fee:	
Ticker:	NOINX	Turnover:	32.00
Share Class:	Standard	Mgr Tenure:	11

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Northern Fds: Intl Eq Idx (NOINX)	7.73	6.64	11.11	5.38	17.05	-2.40	18.84	2.72	29.91	16.05	-10.46	1.98	9.53	-28.00
MSCI EAFE \$N	8.22	6.74	11.24	5.55	16.81	-2.49	18.95	3.68	31.03	14.71	-9.96	2.13	11.92	-29.18
Risk - Standard Deviation														
Northern Fds: Intl Eq Idx (NOINX)	6.28	10.63	10.46	13.42	9.14	12.00	15.38	6.54	7.07	12.25	11.85	15.57	19.75	19.60
MSCI EAFE \$N	6.43	11.21	10.68	13.31	9.22	12.50	15.76	6.33	7.68	11.98	11.25	14.76	18.36	19.76
Risk - Semi-Variance														
Northern Fds: Intl Eq Idx (NOINX)	3.59	7.98	7.28	10.25	6.68	9.13	10.47	3.60	5.02	10.23	8.15	11.06	16.38	13.59
MSCI EAFE \$N	3.91	8.33	7.51	10.21	6.86	9.38	10.89	3.51	5.48	10.03	7.60	10.89	14.79	14.90
Excess Returns														
Arithmetic Excess	-0.49	-0.10	-0.13	-0.17	0.24	0.09	-0.11	-0.96	-1.12	1.34	-0.50	-0.15	-2.39	1.18
Geometric Excess	-0.45	-0.09	-0.12	-0.16	0.21	0.09	-0.09	-0.93	-0.85	1.17	-0.56	-0.15	-2.14	1.67

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	1.46	2.22	1.95	2.45
Information Ratio	-0.31	-0.05	-0.06	-0.06
Downside Deviation	0.91	1.56	1.39	1.68
Skewness	0.99	0.08	0.01	0.29
Kurtosis	2.37	0.68	1.06	2.14
Alpha	-0.29	0.23	0.11	-0.17
Beta	0.97	0.92	0.96	1.00
Residual Risk	1.43	1.96	1.88	2.40
R Squared	0.98	0.97	0.97	0.98

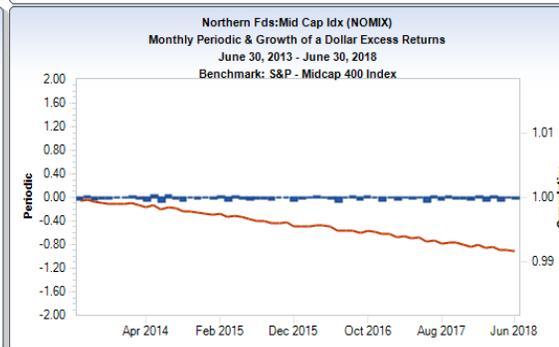
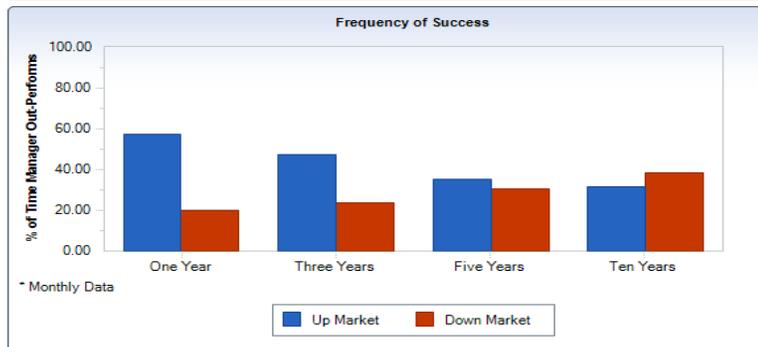
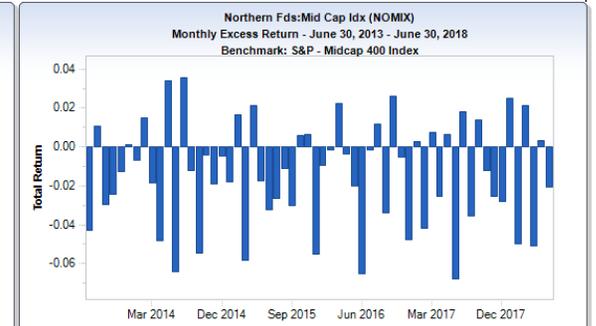
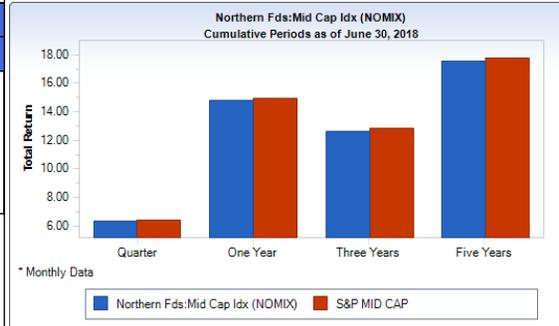


Performance Fact Sheet: Northern Fds:Mid Cap Idx (NOMIX)

Fund Family:	Northern Trust Investments Inc	Net Assets (\$MM):	\$2,422.60
Asset Class:	U.S. Equity	Expense Ratio:	0.16
Style Category:	Mid-Cap Core Funds	Front Load:	
Objective Category:	MID-CAP	12B-1 Fee:	
Ticker:	NOMIX	Turnover:	16.00
Share Class:	Standard	Mgr Tenure:	12

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Northern Fds:Mid Cap Idx (NOMIX)	14.81	12.65	17.58	13.45	8.40	16.42	17.09	19.49	42.18	15.14	0.39	19.68	16.48	-20.66
S&P MID CAP	14.97	12.84	17.77	13.70	8.61	16.57	17.32	19.67	42.47	15.27	0.70	20.03	16.68	-20.23
Risk - Standard Deviation														
Northern Fds:Mid Cap Idx (NOMIX)	9.94	10.96	10.89	13.48	10.67	13.43	13.98	8.77	8.61	7.38	13.38	13.05	20.53	21.03
S&P MID CAP	9.92	10.95	10.88	13.51	10.67	13.43	13.99	8.76	8.69	7.36	13.39	13.09	20.63	21.16
Risk - Semi-Variance														
Northern Fds:Mid Cap Idx (NOMIX)	6.86	7.32	7.77	10.23	7.12	8.70	10.43	6.63	6.36	5.36	9.17	10.36	15.66	15.16
S&P MID CAP	6.84	7.32	7.77	10.25	7.11	8.70	10.45	6.62	6.44	5.37	9.16	10.39	15.74	15.23
Excess Returns														
Arithmetic Excess	-0.16	-0.19	-0.19	-0.25	-0.21	-0.15	-0.23	-0.18	-0.29	-0.13	-0.31	-0.35	-0.20	-0.43
Geometric Excess	-0.14	-0.17	-0.16	-0.22	-0.19	-0.13	-0.20	-0.15	-0.20	-0.11	-0.31	-0.29	-0.17	-0.54

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.10	0.09	0.09	0.15
Information Ratio	-1.48	-1.81	-1.79	-1.46
Downside Deviation	0.07	0.07	0.07	0.12
Skewness	-0.02	-0.36	-0.21	-1.22
Kurtosis	-1.50	-0.82	-0.76	5.31
Alpha	-0.21	-0.19	-0.18	-0.21
Beta	1.01	1.00	1.00	1.00
Residual Risk	0.07	0.09	0.09	0.15
R Squared	1.00	1.00	1.00	1.00

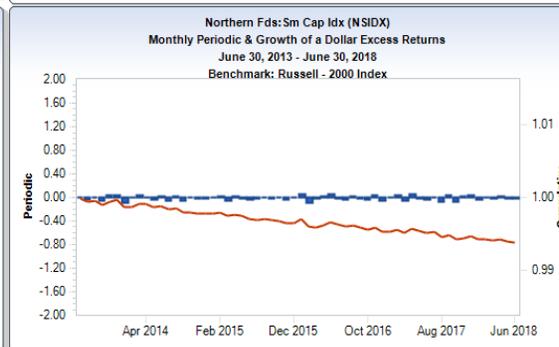
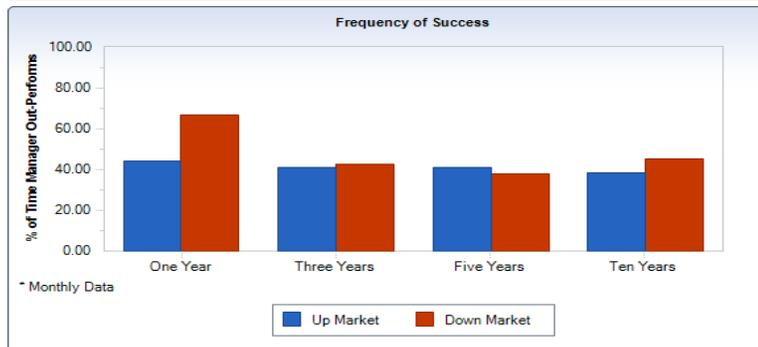
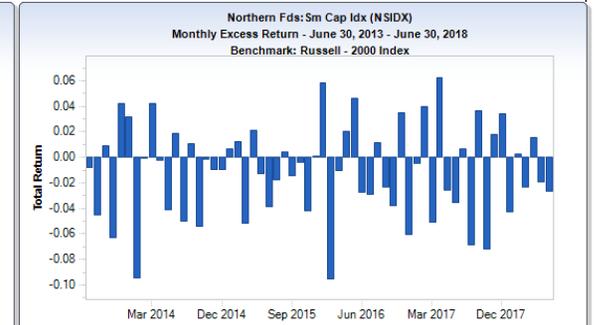
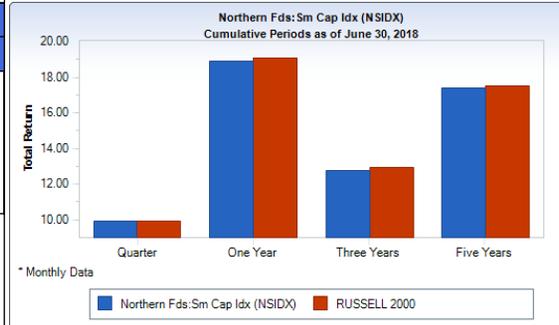


Performance Fact Sheet: Northern Fds:Sm Cap Idx (NSIDX)

Fund Family:	Northern Trust Investments Inc	Net Assets (\$MM):	\$1,321.80
Asset Class:	U.S. Equity	Expense Ratio:	0.15
Style Category:	Small-Cap Core Funds	Front Load:	
Objective Category:	SMALL-CAP	12B-1 Fee:	
Ticker:	NSIDX	Turnover:	13.00
Share Class:	Standard	Mgr Tenure:	12

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Northern Fds:Sm Cap Idx (NSIDX)	18.92	12.79	17.39	13.32	7.05	16.98	14.48	14.13	47.98	13.63	-2.13	19.84	8.03	-17.51
RUSSELL 2000	19.09	12.91	17.54	13.51	7.11	17.12	14.64	14.35	48.15	13.77	-1.80	20.23	8.01	-17.18
Risk - Standard Deviation														
Northern Fds:Sm Cap Idx (NSIDX)	11.14	13.72	13.32	15.76	11.36	18.16	14.83	13.24	8.87	9.90	15.14	16.14	24.76	22.60
RUSSELL 2000	11.15	13.71	13.31	15.78	11.32	18.13	14.85	13.21	8.88	9.93	15.24	16.11	24.91	22.57
Risk - Semi-Variance														
Northern Fds:Sm Cap Idx (NSIDX)	7.51	9.42	9.73	12.00	7.76	12.44	11.77	9.61	6.82	7.14	10.24	12.84	19.26	16.09
RUSSELL 2000	7.54	9.42	9.73	12.02	7.75	12.45	11.80	9.60	6.82	7.15	10.30	12.79	19.36	16.07
Excess Returns														
Arithmetic Excess	-0.17	-0.12	-0.15	-0.19	-0.06	-0.14	-0.16	-0.22	-0.17	-0.14	-0.33	-0.39	0.02	-0.33
Geometric Excess	-0.14	-0.11	-0.13	-0.17	-0.06	-0.12	-0.14	-0.19	-0.11	-0.12	-0.34	-0.32	0.02	-0.40

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.13	0.13	0.13	0.19
Information Ratio	-1.09	-0.87	-0.99	-0.91
Downside Deviation	0.09	0.09	0.09	0.14
Skewness	-0.40	-0.06	-0.20	-0.14
Kurtosis	-0.89	-0.30	-0.34	0.56
Alpha	-0.17	-0.11	-0.14	-0.16
Beta	1.00	1.00	1.00	1.00
Residual Risk	0.13	0.13	0.13	0.18
R Squared	1.00	1.00	1.00	1.00

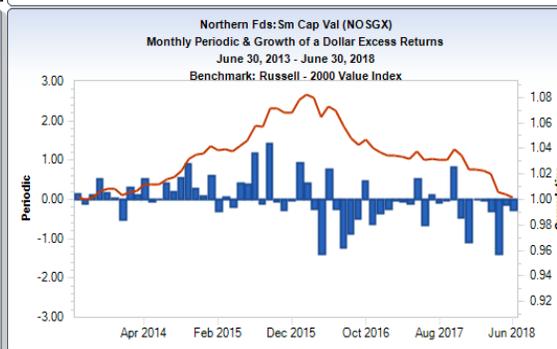
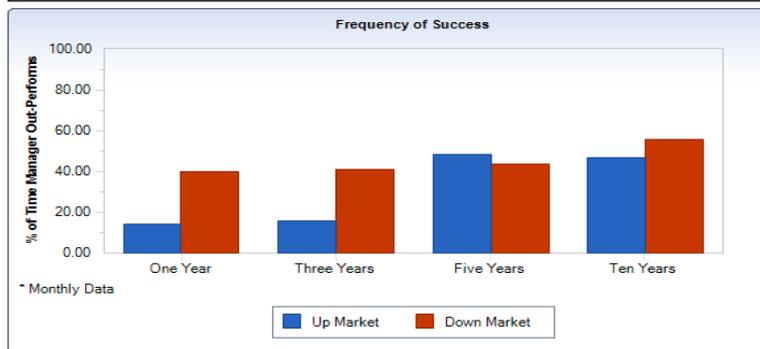
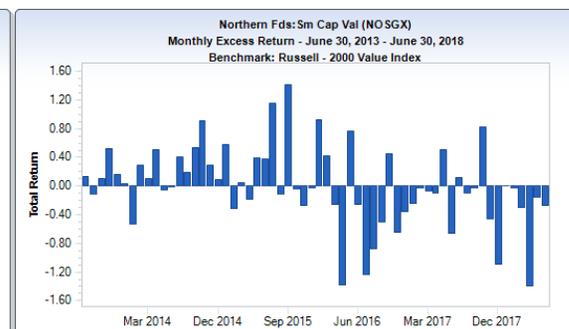
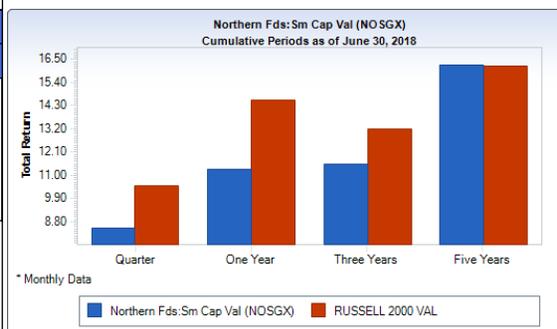


Performance Fact Sheet: Northern Fds:Sm Cap Val (NOSGX)

Fund Family:	Northern Trust Investments Inc	Net Assets (\$MM):	\$3,673.20
Asset Class:	U.S. Equity	Expense Ratio:	1.01
Style Category:	Small-Cap Value Funds	Front Load:	
Objective Category:	SMALL-CAP	12B-1 Fee:	
Ticker:	NOSGX	Turnover:	19.00
Share Class:	Standard	Mgr Tenure:	17

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Northern Fds:Sm Cap Val (NOSGX)	11.30	11.55	16.23	13.16	-0.57	23.46	14.39	16.73	45.61	11.25	1.83	18.11	0.02	-4.19
RUSSELL 2000 VAL	14.56	13.17	16.20	12.77	0.75	27.19	10.97	13.62	43.54	15.43	-3.16	18.02	2.38	-11.11
Risk - Standard Deviation														
Northern Fds:Sm Cap Val (NOSGX)	12.72	13.34	12.96	15.19	12.84	16.82	12.34	12.84	9.45	9.13	13.71	15.25	26.85	20.11
RUSSELL 2000 VAL	12.17	13.69	13.00	15.89	12.41	17.65	12.30	12.63	8.93	9.78	14.54	16.69	27.65	22.69
Risk - Semi-Variance														
Northern Fds:Sm Cap Val (NOSGX)	8.50	8.42	8.89	11.40	8.52	10.36	9.86	8.60	7.51	6.57	8.78	12.31	21.47	14.25
RUSSELL 2000 VAL	8.21	8.74	9.01	12.05	8.29	11.27	9.67	8.89	7.04	6.90	9.90	13.52	22.06	16.10
Excess Returns														
Arithmetic Excess	-3.26	-1.62	0.03	0.39	-1.32	-3.73	3.42	3.11	2.07	-4.18	4.99	0.09	-2.36	6.92
Geometric Excess	-2.85	-1.43	0.03	0.35	-1.31	-2.93	3.08	2.74	1.44	-3.62	5.15	0.08	-2.31	7.78

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	1.97	2.26	1.94	2.17
Information Ratio	-1.45	-0.64	0.01	0.16
Downside Deviation	1.52	1.55	1.41	1.43
Skewness	-0.55	0.19	-0.24	0.65
Kurtosis	1.43	0.37	0.85	2.39
Alpha	-2.77	-0.76	0.44	0.84
Beta	0.99	0.93	0.96	0.94
Residual Risk	1.97	2.02	1.87	1.80
R Squared	0.97	0.98	0.98	0.99

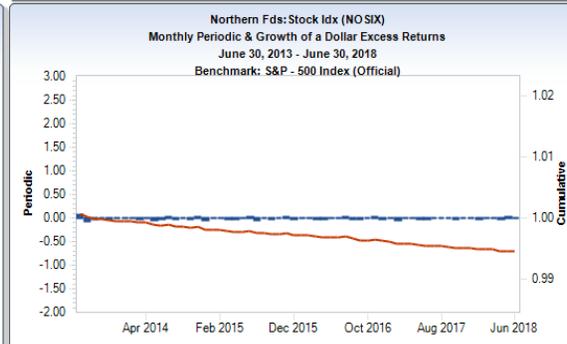
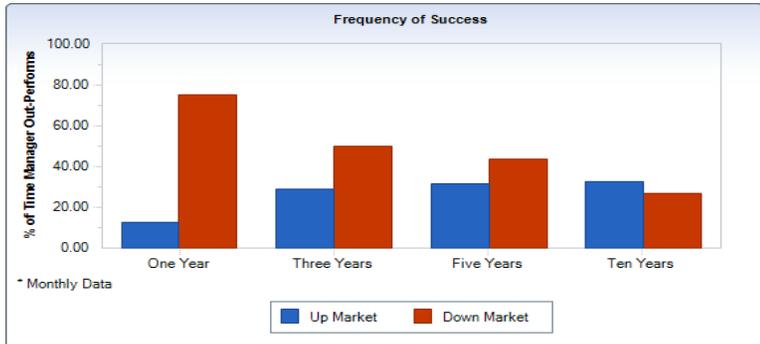
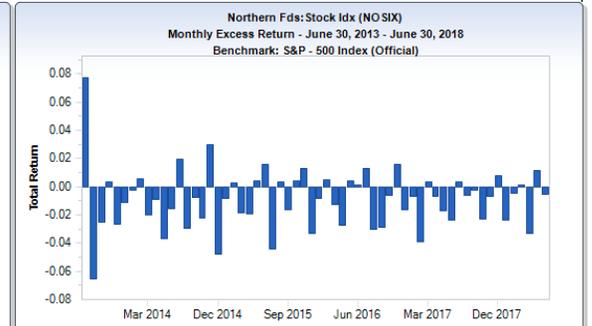
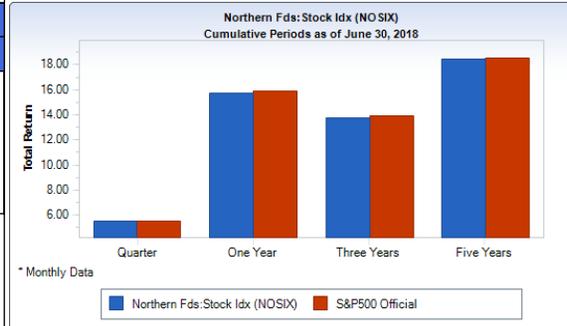


Performance Fact Sheet: Northern Fds:Stock Idx (NOSIX)

Fund Family:	Northern Trust Investments Inc	Net Assets (\$MM):	\$8,040.90
Asset Class:	U.S. Equity	Expense Ratio:	0.10
Style Category:	S&P 500 Index Funds	Front Load:	
Objective Category:	S&P 500 INDEX FUNDS	12B-1 Fee:	
Ticker:	NOSIX	Turnover:	7.00
Share Class:	Standard	Mgr Tenure:	12

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Northern Fds:Stock Idx (NOSIX)	15.76	13.77	18.41	12.90	13.69	7.99	21.47	23.77	41.12	13.29	4.43	8.82	7.17	-21.41
S&P500 Official	15.85	13.90	18.54	13.07	13.83	8.09	21.59	23.94	41.29	13.43	4.64	9.06	7.41	-21.20
Risk - Standard Deviation														
Northern Fds:Stock Idx (NOSIX)	8.28	10.37	9.65	11.13	9.87	11.05	13.18	5.02	7.64	6.80	8.90	10.61	18.06	15.79
S&P500 Official	8.30	10.38	9.65	11.11	9.89	11.03	13.19	5.00	7.59	6.80	8.88	10.62	18.02	15.80
Risk - Semi-Variance														
Northern Fds:Stock Idx (NOSIX)	5.77	7.27	6.89	8.40	6.64	7.71	9.71	3.15	5.43	4.65	6.00	8.36	13.99	10.89
S&P500 Official	5.79	7.28	6.89	8.39	6.65	7.71	9.71	3.15	5.38	4.64	5.99	8.36	13.97	10.91
Excess Returns														
Arithmetic Excess	-0.09	-0.13	-0.13	-0.17	-0.14	-0.10	-0.12	-0.17	-0.17	-0.14	-0.21	-0.24	-0.24	-0.21
Geometric Excess	-0.08	-0.11	-0.11	-0.15	-0.12	-0.09	-0.10	-0.14	-0.12	-0.12	-0.20	-0.22	-0.22	-0.27

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.05	0.06	0.07	0.08
Information Ratio	-1.73	-2.02	-1.47	-1.83
Downside Deviation	0.04	0.04	0.05	0.06
Skewness	-0.76	-0.45	0.72	0.18
Kurtosis	-0.11	-0.74	3.81	1.02
Alpha	-0.07	-0.11	-0.12	-0.16
Beta	1.00	1.00	1.00	1.00
Residual Risk	0.05	0.06	0.08	0.08
R Squared	1.00	1.00	1.00	1.00

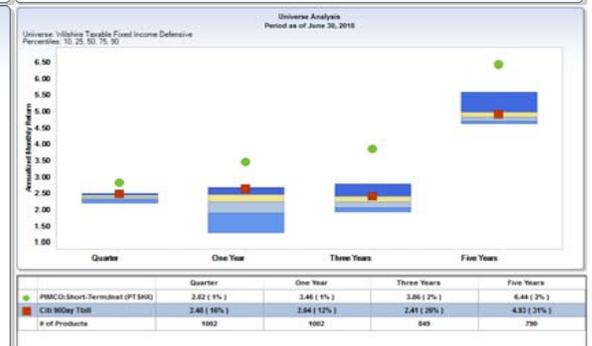
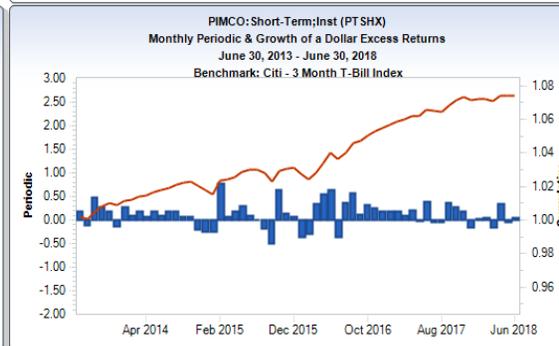
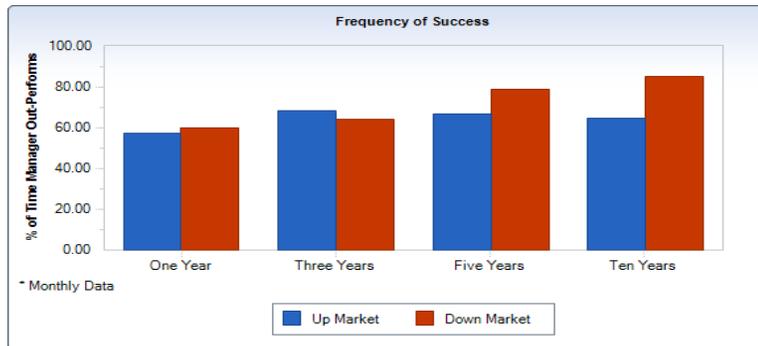
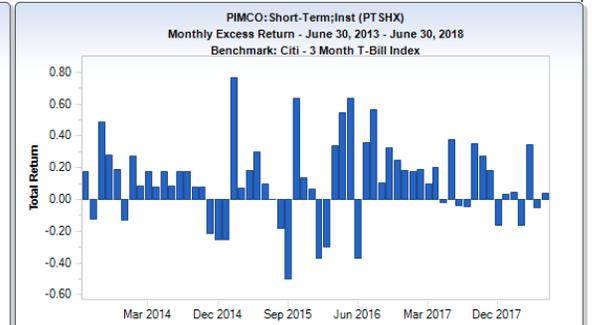
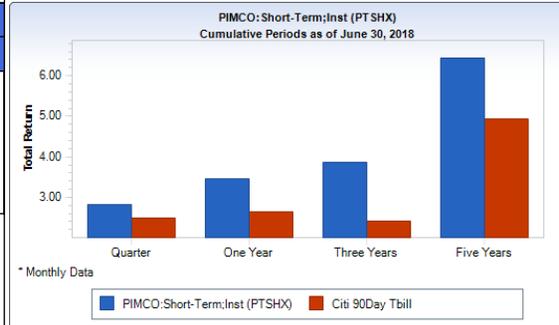


Performance Fact Sheet: PIMCO:Short-Term;Inst (PTSHX)

Fund Family:	PIMCO	Net Assets (\$MM):	\$12,396.80
Asset Class:	Taxable Fixed Income	Expense Ratio:	0.53
Style Category:	Ultra Sht Obligation Fds	Front Load:	
Objective Category:	ULTRA-SHORT OBLIG	12B-1 Fee:	
Ticker:	PTSHX	Turnover:	156.00
Share Class:	I	Mgr Tenure:	7

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
PIMCO:Short-Term;Inst (PTSHX)	3.46	3.86	6.44	4.83	-4.30	-0.99	21.54	10.07	7.59	1.12	2.84	-3.37	-7.03	23.47
Citi 90Day Tbill	2.64	2.41	4.93	2.96	-5.78	-3.19	19.96	9.05	6.77	-2.15	2.55	-5.10	-14.93	27.32
Risk - Standard Deviation														
PIMCO:Short-Term;Inst (PTSHX)	8.20	8.58	8.91	9.93	8.31	9.14	11.92	6.85	6.50	6.51	9.36	9.26	13.30	15.15
Citi 90Day Tbill	8.04	8.54	9.01	10.38	8.13	8.75	12.50	6.79	6.89	6.83	10.18	9.37	13.81	15.58
Risk - Semi-Variance														
PIMCO:Short-Term;Inst (PTSHX)	5.79	6.18	6.01	6.44	5.94	6.63	7.90	4.12	4.84	3.38	6.31	6.56	9.44	7.88
Citi 90Day Tbill	5.61	6.22	6.11	6.82	5.84	6.51	8.36	4.22	5.21	3.58	6.77	6.60	10.14	8.02
Excess Returns														
Arithmetic Excess	0.82	1.45	1.51	1.87	1.48	2.20	1.58	1.02	0.82	3.27	0.29	1.73	7.90	-3.85
Geometric Excess	0.80	1.42	1.44	1.82	1.57	2.27	1.32	0.94	0.77	3.34	0.28	1.82	9.29	-3.02

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.62	0.97	0.89	1.69
Information Ratio	1.28	1.46	1.62	1.08
Downside Deviation	0.40	0.70	0.63	1.25
Skewness	0.50	-0.14	0.05	-1.13
Kurtosis	-0.99	-0.18	0.31	13.49
Alpha	1.08	1.57	1.57	2.27
Beta	9.15	4.97	5.58	11.65
Residual Risk	0.59	0.95	0.88	1.57
R Squared	0.14	0.03	0.03	0.15



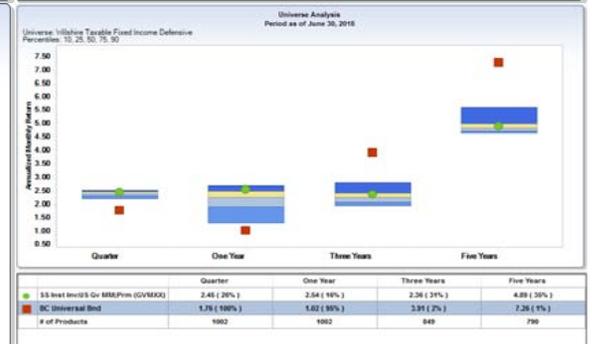
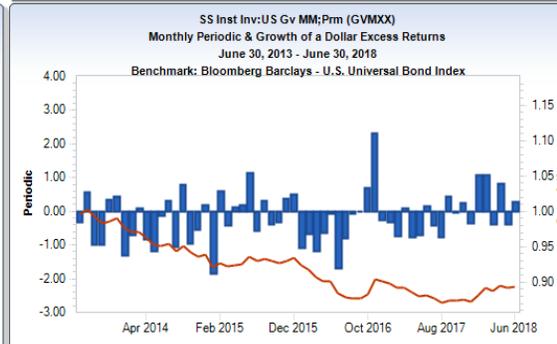
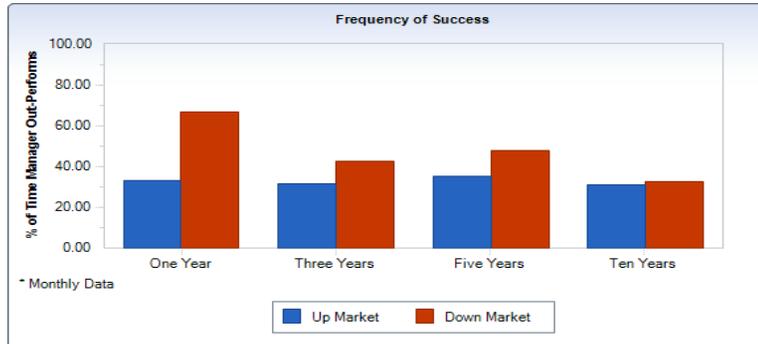
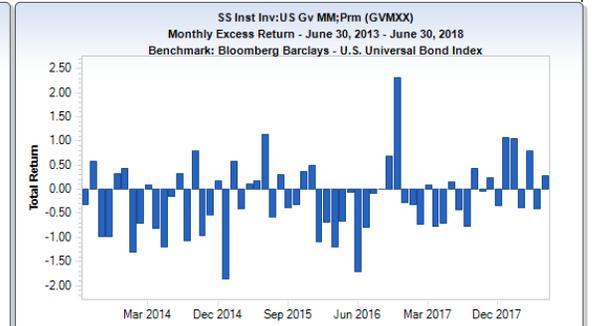
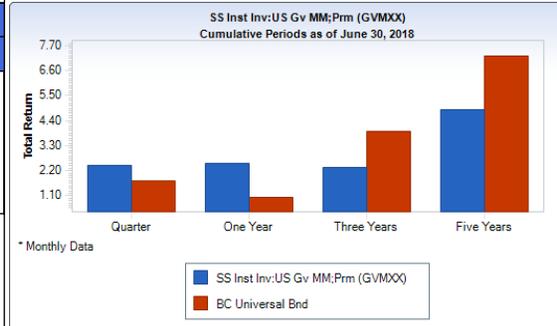
Performance Fact Sheet: SS Inst Inv:US Gv MM;Prm (GVMXX)

Fund Family: State Street Bank and Trust Company
Asset Class: Taxable Fixed Income
Style Category: Instl US Govt MM Funds
Objective Category: INSTL US GOVT MMKT
Ticker: GVMXX
Share Class: Standard

Net Assets (\$MM): \$44,109.80
Expense Ratio: 0.12
Front Load:
12B-1 Fee:
Turnover:
Mgr Tenure:

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
SS Inst Inv:US Gv MM;Prm (GVMXX)	2.54	2.36	4.89	2.93	-5.82	-3.22	19.93	9.02	6.72	-2.22	2.50	-5.14	-14.85	27.79
BC Universal Bnd	1.02	3.91	7.26	6.81	-2.75	0.32	20.44	15.08	5.29	3.19	10.05	1.57	-7.78	28.07
Risk - Standard Deviation														
SS Inst Inv:US Gv MM;Prm (GVMXX)	8.03	8.54	9.01	10.38	8.13	8.74	12.50	6.79	6.89	6.83	10.19	9.37	13.82	15.54
BC Universal Bnd	7.81	8.31	9.39	10.02	8.49	8.20	14.31	6.89	5.78	6.65	10.11	10.78	12.89	13.25
Risk - Semi-Variance														
SS Inst Inv:US Gv MM;Prm (GVMXX)	5.61	6.21	6.11	6.82	5.84	6.51	8.36	4.22	5.21	3.58	6.77	6.60	10.15	8.00
BC Universal Bnd	5.64	6.04	6.12	6.60	5.97	5.88	8.92	4.03	3.95	3.29	6.76	7.59	9.10	8.89
Excess Returns														
Arithmetic Excess	1.52	-1.55	-2.37	-3.88	-3.07	-3.54	-0.51	-6.06	1.43	-5.41	-7.55	-6.71	-7.07	-0.28
Geometric Excess	1.50	-1.49	-2.21	-3.63	-3.16	-3.53	-0.42	-5.27	1.36	-5.24	-6.86	-6.61	-7.67	-0.22

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	2.15	2.60	2.62	3.36
Information Ratio	0.70	-0.58	-0.85	-1.08
Downside Deviation	1.44	1.64	1.77	2.21
Skewness	0.32	0.87	0.43	0.62
Kurtosis	-1.17	2.15	0.97	3.16
Alpha	-0.14	-0.08	-0.07	-0.07
Beta	0.00	0.00	0.00	0.00
Residual Risk	0.03	0.05	0.04	0.06
R Squared	-0.01	0.00	0.00	0.03

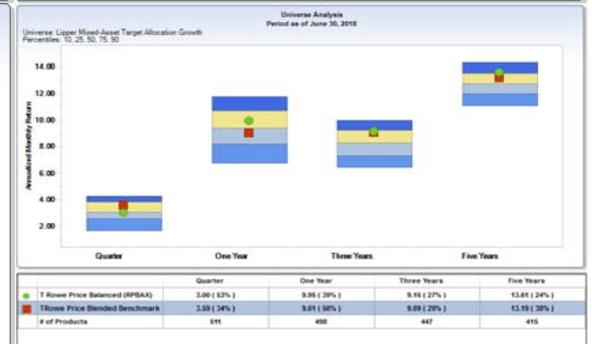
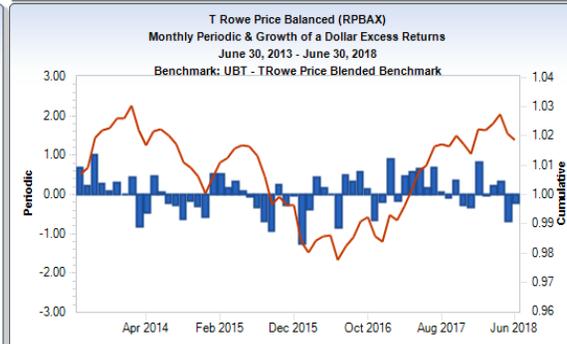
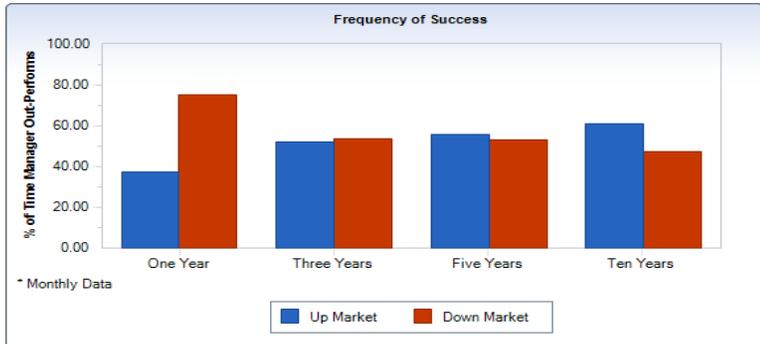
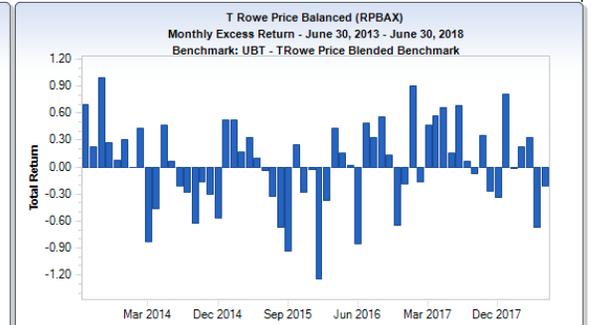
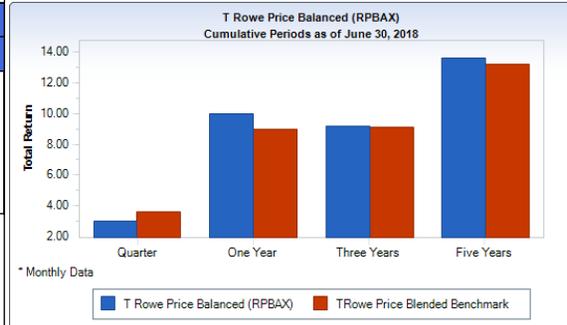


Performance Fact Sheet: T Rowe Price Balanced (RPBAX)

Fund Family:	T. Rowe Price Associates Inc	Net Assets (\$MM):	\$3,687.30
Asset Class:	Balanced	Expense Ratio:	0.61
Style Category:	Mixed-Asset Target Allocation Growth	Front Load:	
Objective Category:	BALANCED	12B-1 Fee:	
Ticker:	RPBAX	Turnover:	49.00
Share Class:	Standard	Mgr Tenure:	7

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
T Rowe Price Balanced (RPBAX)	9.95	9.16	13.61	10.16	10.24	2.25	20.71	15.53	27.25	11.41	3.38	6.62	8.95	-10.48
TRowe Price Blended Benchmark	9.01	9.09	13.19	9.96	6.99	3.52	21.22	18.48	24.54	9.02	5.73	5.63	1.02	-3.45
Risk - Standard Deviation														
T Rowe Price Balanced (RPBAX)	6.25	8.32	8.41	8.39	8.90	8.95	12.58	4.72	4.99	4.55	5.45	5.29	12.32	12.55
TRowe Price Blended Benchmark	6.43	8.03	8.11	7.84	8.95	8.18	11.98	4.28	5.23	3.65	4.82	3.51	12.65	11.05
Risk - Semi-Variance														
T Rowe Price Balanced (RPBAX)	4.32	5.85	5.71	6.01	6.26	6.17	8.29	3.38	3.25	3.29	3.70	4.06	8.47	9.14
TRowe Price Blended Benchmark	4.55	5.53	5.48	5.54	6.31	5.52	7.89	3.12	3.39	2.61	3.52	2.65	8.64	8.11
Excess Returns														
Arithmetic Excess	0.94	0.07	0.42	0.20	3.25	-1.27	-0.51	-2.95	2.71	2.39	-2.35	0.99	7.93	-7.03
Geometric Excess	0.86	0.06	0.37	0.18	3.04	-1.23	-0.42	-2.49	2.18	2.19	-2.22	0.94	7.85	-7.28

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	1.49	1.78	1.68	2.48
Information Ratio	0.58	0.04	0.22	0.07
Downside Deviation	1.02	1.34	1.25	1.95
Skewness	0.16	-0.44	-0.37	-1.04
Kurtosis	-0.33	-0.23	-0.19	3.07
Alpha	0.51	-0.70	-0.53	-1.00
Beta	1.06	1.13	1.12	1.19
Residual Risk	1.47	1.60	1.52	1.73
R Squared	0.93	0.95	0.95	0.98



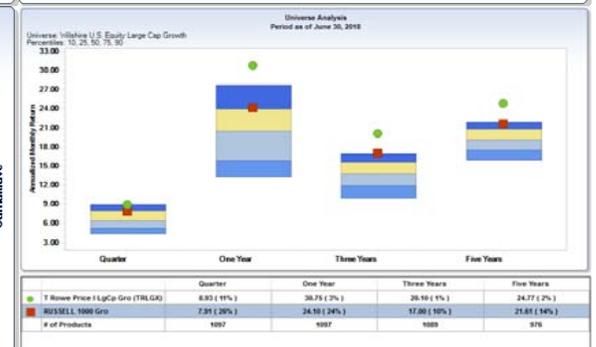
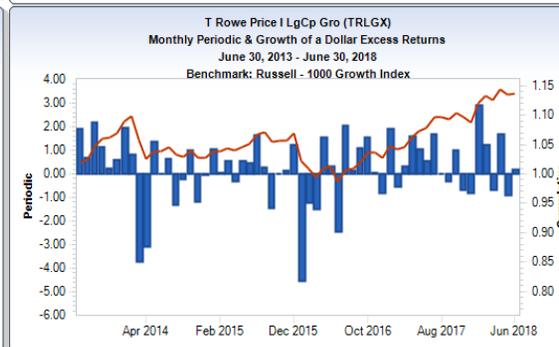
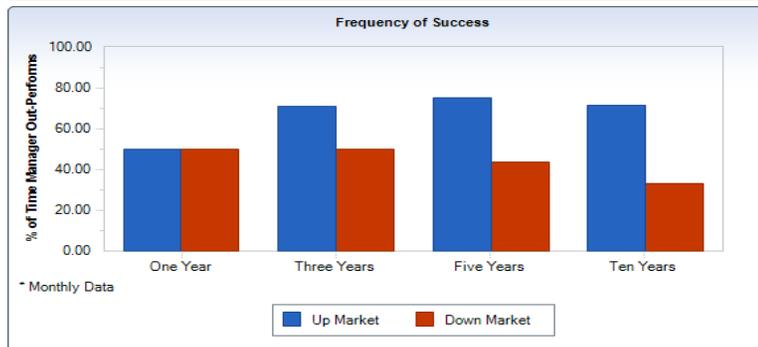
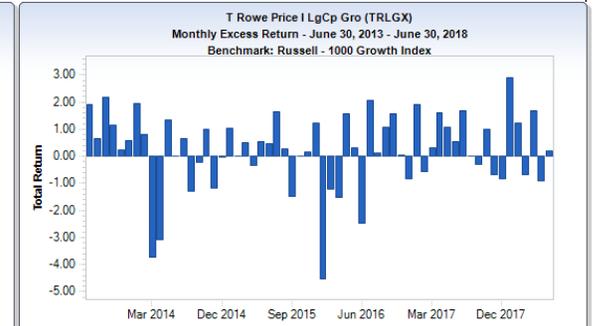
Performance Fact Sheet: T Rowe Price I LgCp Gro (TRLGX)

Fund Family: T. Rowe Price Associates Inc
 Asset Class: U.S. Equity
 Style Category: Large-Cap Growth Funds
 Objective Category: GROWTH
 Ticker: TRLGX
 Share Class: Standard

Net Assets (\$MM): \$18,330.60
 Expense Ratio: 0.56
 Front Load:
 12B-1 Fee:
 Turnover: 36.00
 Mgr Tenure: 1

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
T Rowe Price I LgCp Gro (TRLGX)	30.75	20.10	24.77	16.99	28.77	-0.71	31.98	18.51	54.15	14.93	1.05	10.22	30.27	-26.02
RUSSELL 1000 Gro	24.10	17.00	21.61	14.77	21.66	3.38	26.73	23.25	42.46	12.70	5.17	10.63	16.53	-23.00
Risk - Standard Deviation														
T Rowe Price I LgCp Gro (TRLGX)	11.89	14.34	13.39	14.30	11.73	15.84	16.54	10.90	8.09	11.60	10.81	14.34	14.28	22.51
RUSSELL 1000 Gro	10.26	11.81	10.90	11.73	11.19	11.87	14.75	6.89	6.23	7.52	8.54	11.79	14.89	17.72
Risk - Semi-Variance														
T Rowe Price I LgCp Gro (TRLGX)	7.99	10.45	9.99	10.84	8.26	11.47	11.89	8.77	5.77	8.44	6.13	10.66	10.22	16.86
RUSSELL 1000 Gro	6.98	8.32	7.81	8.73	7.90	8.13	10.65	4.78	4.47	4.93	5.40	8.90	10.83	12.72
Excess Returns														
Arithmetic Excess	6.65	3.10	3.16	2.22	7.11	-4.09	5.25	-4.74	11.69	2.23	-4.12	-0.41	13.74	-3.02
Geometric Excess	5.36	2.65	2.60	1.93	5.84	-3.96	4.14	-3.85	8.21	1.98	-3.92	-0.37	11.79	-3.92

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	4.29	5.02	4.92	4.97
Information Ratio	1.25	0.53	0.53	0.39
Downside Deviation	2.71	3.89	3.91	3.77
Skewness	0.69	-0.96	-1.09	-0.62
Kurtosis	-0.54	2.08	1.91	1.06
Alpha	2.86	0.93	0.98	0.77
Beta	1.14	1.14	1.12	1.11
Residual Risk	4.19	4.78	4.78	4.63
R Squared	0.87	0.87	0.86	0.93



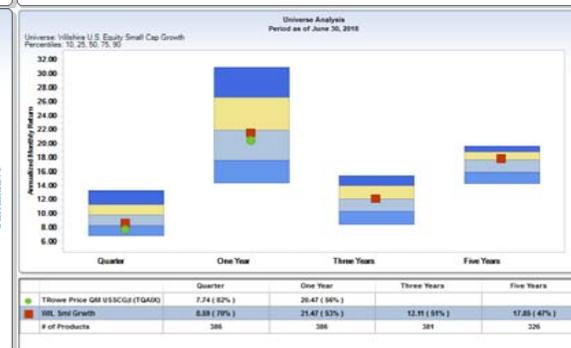
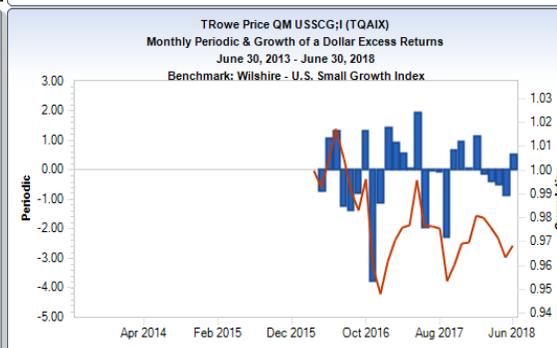
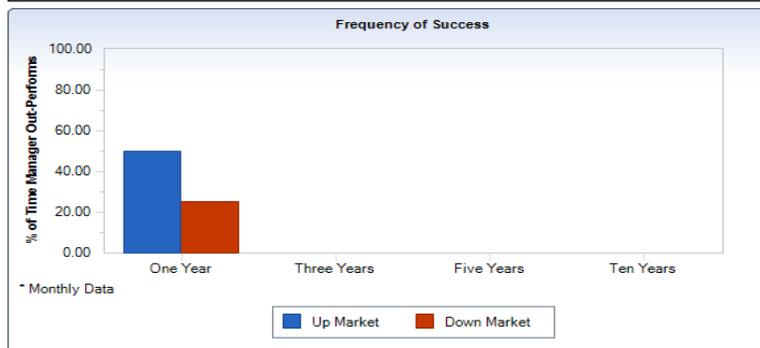
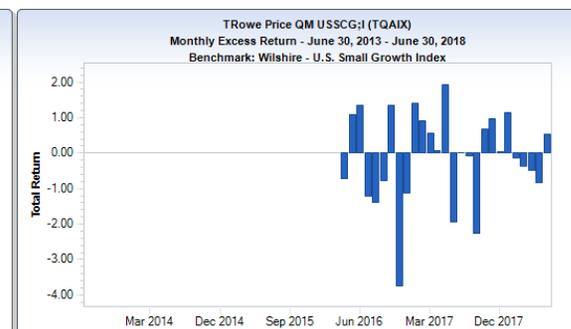
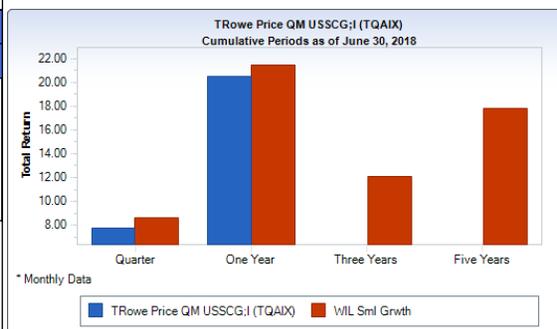
Performance Fact Sheet: TRowe Price QM USSCG;I (TQAIX)

Fund Family: T. Rowe Price Associates Inc
 Asset Class: U.S. Equity
 Style Category: Small-Cap Growth Funds
 Objective Category: SMALL-CAP
 Ticker: TQAIX
 Share Class: Standard

Net Assets (\$MM): \$2,514.70
 Expense Ratio: 0.66
 Front Load:
 12B-1 Fee:
 Turnover: 12.00
 Mgr Tenure: 2

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
TRowe Price QM USSCG;I (TQAIX)	20.47	N/A	N/A	N/A	14.25	N/A								
WIL Sml Grwth	21.47	12.11	17.85	14.55	11.70	12.92	13.60	13.63	54.75	13.12	0.80	24.24	24.34	-26.53
Risk - Standard Deviation														
TRowe Price QM USSCG;I (TQAIX)	9.99	N/A	N/A	N/A	10.18	N/A								
WIL Sml Grwth	10.54	14.16	13.46	16.12	10.55	19.61	15.18	12.46	9.47	9.43	14.95	14.24	23.94	24.32
Risk - Semi-Variance														
TRowe Price QM USSCG;I (TQAIX)	7.21	N/A	N/A	N/A	7.22	N/A								
WIL Sml Grwth	7.17	9.87	9.93	12.17	7.21	13.45	11.73	9.49	6.81	7.23	10.09	10.97	17.38	18.00
Excess Returns														
Arithmetic Excess	-1.00	N/A	N/A	N/A	2.55	N/A								
Geometric Excess	-0.82	N/A	N/A	N/A	2.28	N/A								

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	3.16	N/A	N/A	N/A
Information Ratio	-0.26	N/A	N/A	N/A
Downside Deviation	2.49	N/A	N/A	N/A
Skewness	-1.09	N/A	N/A	N/A
Kurtosis	2.18	N/A	N/A	N/A
Alpha	1.04	N/A	N/A	N/A
Beta	0.88	N/A	N/A	N/A
Residual Risk	3.11	N/A	N/A	N/A
R Squared	0.88	N/A	N/A	N/A

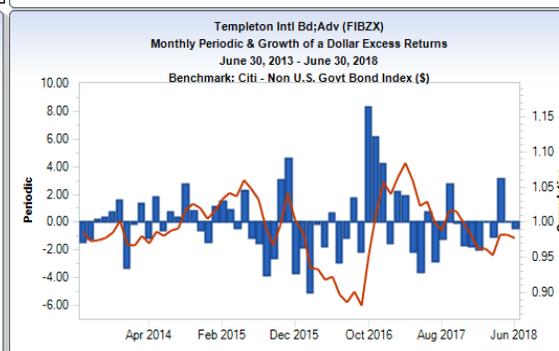
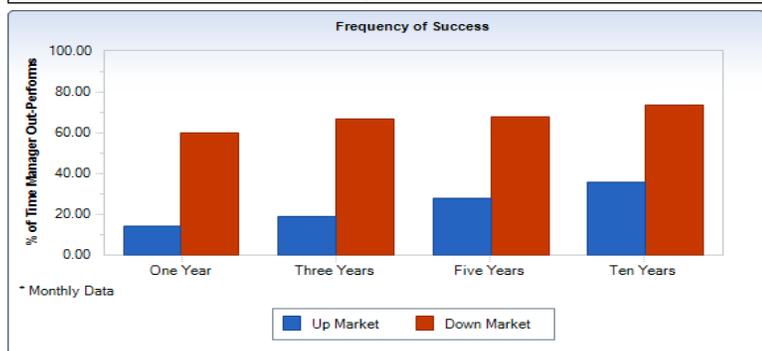
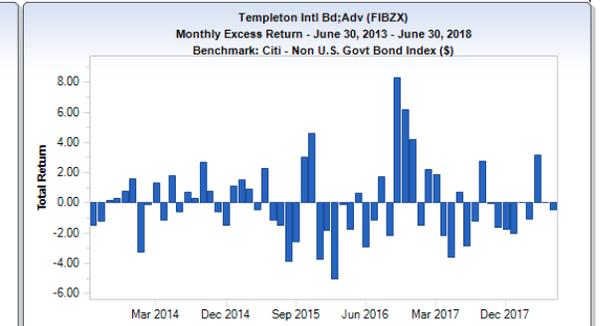
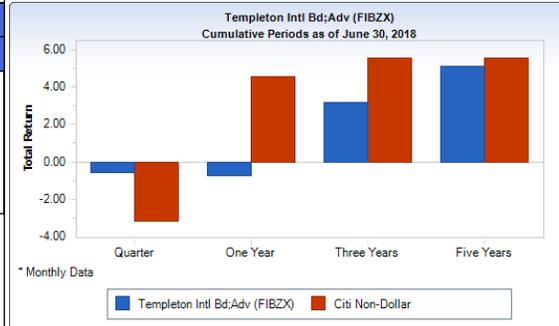


Performance Fact Sheet: Templeton Intl Bd;Adv (FIBZX)

Fund Family:	FRANKLIN TEMPLETON INVESTMENTS	Net Assets (\$MM):	\$297.70
Asset Class:	Global Fixed Income	Expense Ratio:	0.83
Style Category:	International Income Fds	Front Load:	
Objective Category:	INTERNATIONAL INCOME	12B-1 Fee:	
Ticker:	FIBZX	Turnover:	89.00
Share Class:	Advisor	Mgr Tenure:	11

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Templeton Intl Bd;Adv (FIBZX)	-0.72	3.17	5.11	7.21	-4.22	3.52	13.05	6.49	6.68	10.92	1.45	7.23	-0.13	31.98
Citi Non-Dollar	4.56	5.56	5.57	4.46	3.08	-1.71	13.28	6.10	1.85	-0.75	7.78	-0.28	-11.34	37.72
Risk - Standard Deviation														
Templeton Intl Bd;Adv (FIBZX)	8.06	8.71	8.35	8.50	10.14	9.47	10.85	4.16	5.41	4.56	3.41	4.52	12.58	14.18
Citi Non-Dollar	7.66	8.80	8.47	9.80	8.29	8.45	11.96	6.91	4.92	5.36	7.27	11.16	13.62	17.61
Risk - Semi-Variance														
Templeton Intl Bd;Adv (FIBZX)	6.22	6.39	5.71	5.45	7.32	6.83	6.20	2.96	3.46	3.24	2.23	2.93	8.35	9.10
Citi Non-Dollar	5.66	6.36	5.52	6.49	6.17	6.37	7.30	3.19	3.16	3.56	5.42	8.58	9.29	12.07
Excess Returns														
Arithmetic Excess	-5.28	-2.39	-0.46	2.75	-7.30	5.23	-0.23	0.39	4.83	11.67	-6.33	7.51	11.21	-5.74
Geometric Excess	-5.05	-2.26	-0.44	2.63	-7.08	5.32	-0.20	0.37	4.74	11.76	-5.87	7.53	12.64	-4.17

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	6.27	10.27	8.49	8.59
Information Ratio	-0.81	-0.22	-0.05	0.31
Downside Deviation	3.71	6.17	5.39	5.52
Skewness	1.01	0.94	0.82	0.68
Kurtosis	0.54	0.77	1.53	0.69
Alpha	-3.74	0.89	0.08	3.45
Beta	0.25	-0.06	0.10	0.44
Residual Risk	3.59	6.00	5.51	7.16
R Squared	0.17	0.01	0.02	0.20

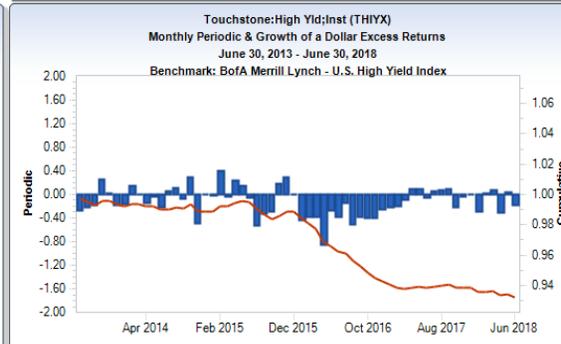
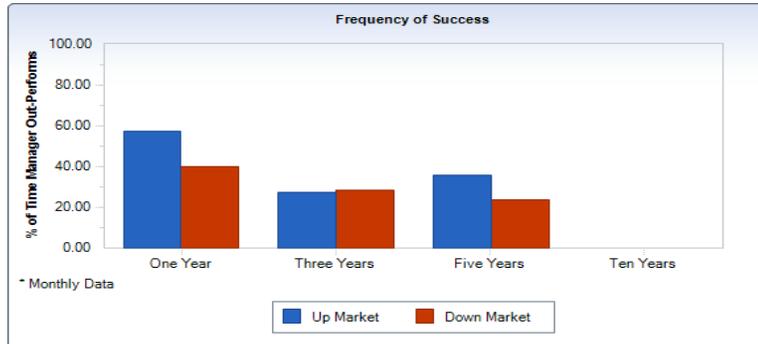
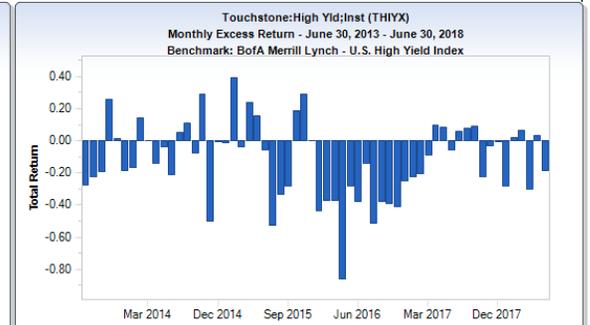
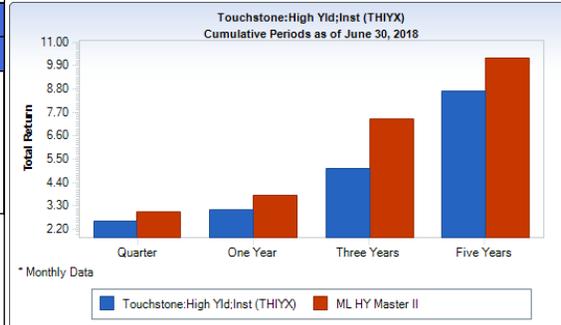


Performance Fact Sheet: Touchstone:High Yld;Inst (THIYX)

Fund Family:	TOUCHSTONE ADVISORS INC	Net Assets (\$MM):	\$110.50
Asset Class:	Taxable Fixed Income	Expense Ratio:	0.72
Style Category:	High Yield Funds	Front Load:	
Objective Category:	HIGH YIELD	12B-1 Fee:	
Ticker:	THIYX	Turnover:	69.00
Share Class:	I	Mgr Tenure:	6

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Touchstone:High Yld;Inst (THIYX)	3.10	5.07	8.72	N/A	-0.05	8.12	14.37	11.14	12.96	N/A	N/A	N/A	N/A	N/A
ML HY Master II	3.82	7.39	10.26	10.88	0.39	13.43	14.36	11.75	14.64	13.02	6.97	9.18	33.77	-7.93
Risk - Standard Deviation														
Touchstone:High Yld;Inst (THIYX)	6.77	7.19	8.18	N/A	8.38	7.55	11.92	6.02	6.29	N/A	N/A	N/A	N/A	N/A
ML HY Master II	6.82	7.27	8.13	8.88	8.46	7.41	12.03	5.90	5.88	4.01	6.01	6.22	11.54	15.60
Risk - Semi-Variance														
Touchstone:High Yld;Inst (THIYX)	4.68	5.03	5.10	N/A	5.78	5.23	6.56	3.17	4.41	N/A	N/A	N/A	N/A	N/A
ML HY Master II	4.69	5.08	5.07	6.02	5.78	5.21	6.61	2.92	4.19	2.45	4.06	4.05	7.71	11.23
Excess Returns														
Arithmetic Excess	-0.72	-2.32	-1.54	N/A	-0.44	-5.31	0.01	-0.61	-1.68	N/A	N/A	N/A	N/A	N/A
Geometric Excess	-0.69	-2.16	-1.40	N/A	-0.44	-4.68	0.01	-0.55	-1.47	N/A	N/A	N/A	N/A	N/A

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	0.51	0.84	0.83	N/A
Information Ratio	-1.35	-2.58	-1.68	N/A
Downside Deviation	0.41	0.61	0.61	N/A
Skewness	-0.76	-0.36	-0.36	N/A
Kurtosis	-1.24	0.29	0.39	N/A
Alpha	-0.61	-1.96	-1.34	N/A
Beta	0.93	0.96	0.99	N/A
Residual Risk	0.49	0.81	0.84	N/A
R Squared	0.94	0.98	0.97	N/A



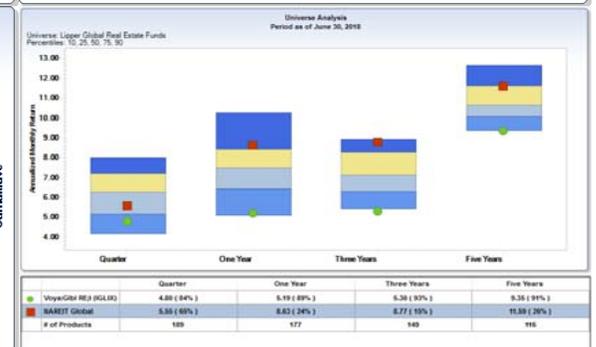
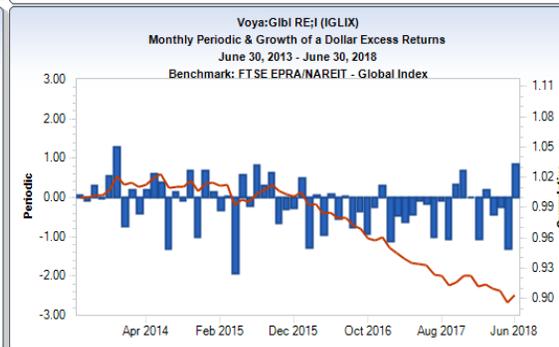
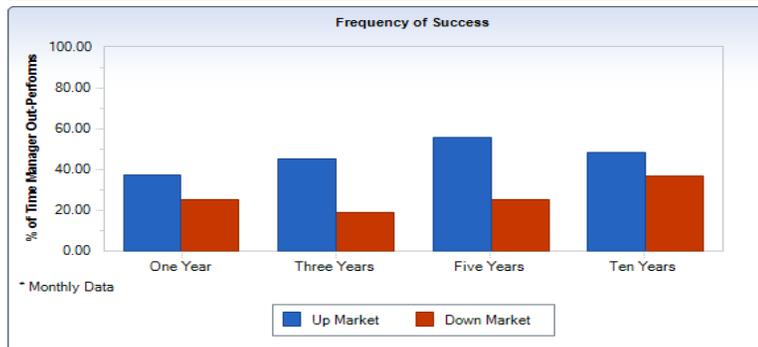
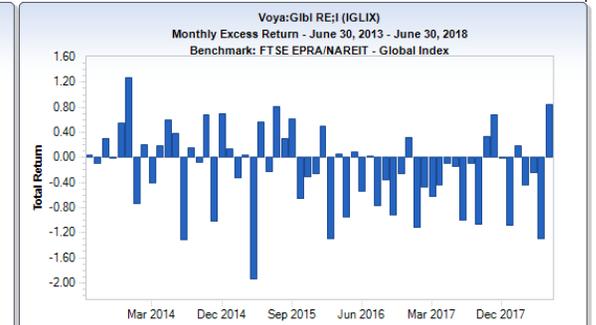
Performance Fact Sheet: Voya:Gbl RE;I (IGLIX)

Fund Family: Voya Investments LLC
Asset Class: Real Estate
Style Category: Global Real Estate Funds
Objective Category: GLB REAL ESTATE
Ticker: IGLIX
Share Class: I

Net Assets (\$MM): \$953.20
Expense Ratio: 1.05
Front Load:
12B-1 Fee:
Turnover: 83.00
Mgr Tenure: 13

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Voya:Gbl RE;I (IGLIX)	5.19	5.30	9.35	7.12	3.18	-3.08	17.92	24.22	10.85	22.82	-2.97	9.22	13.69	-26.58
NAREIT Global	8.63	8.77	11.59	8.16	7.46	1.00	19.44	25.08	9.11	26.96	-5.87	13.76	19.97	-38.34
Risk - Standard Deviation														
Voya:Gbl RE;I (IGLIX)	7.23	11.24	12.56	15.53	8.91	13.38	19.78	9.44	11.60	8.55	12.21	12.85	27.74	24.66
NAREIT Global	6.25	10.47	11.83	16.28	8.14	12.36	18.70	9.18	11.42	8.41	12.98	12.78	27.97	27.69
Risk - Semi-Variance														
Voya:Gbl RE;I (IGLIX)	5.15	7.72	8.20	11.76	5.85	8.80	12.30	6.50	8.77	5.72	8.35	10.20	22.80	17.65
NAREIT Global	4.68	7.26	7.59	12.44	5.22	8.11	11.22	6.58	7.91	5.84	9.03	10.05	22.33	20.25
Excess Returns														
Arithmetic Excess	-3.44	-3.47	-2.24	-1.04	-4.28	-4.08	-1.52	-0.86	1.74	-4.14	2.90	-4.54	-6.28	11.76
Geometric Excess	-3.17	-3.19	-2.01	-0.96	-3.98	-4.04	-1.27	-0.69	1.59	-3.26	3.08	-3.99	-5.23	19.07

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	2.50	2.08	2.25	3.61
Information Ratio	-1.27	-1.54	-0.89	-0.27
Downside Deviation	1.79	1.46	1.68	2.10
Skewness	0.00	0.06	-0.35	2.12
Kurtosis	-1.26	-0.80	-0.10	9.96
Alpha	-2.83	-3.15	-2.05	-0.63
Beta	0.94	0.99	1.01	0.93
Residual Risk	2.45	2.08	2.25	3.07
R Squared	0.92	0.97	0.96	0.98

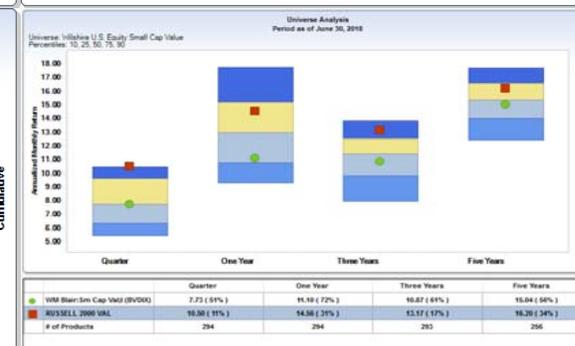
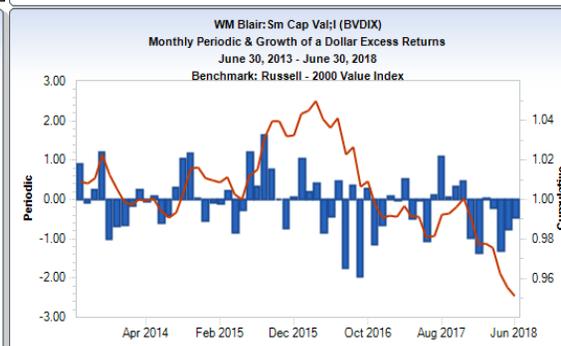
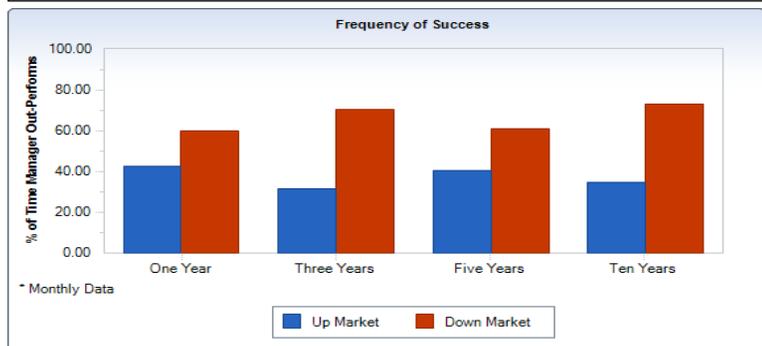
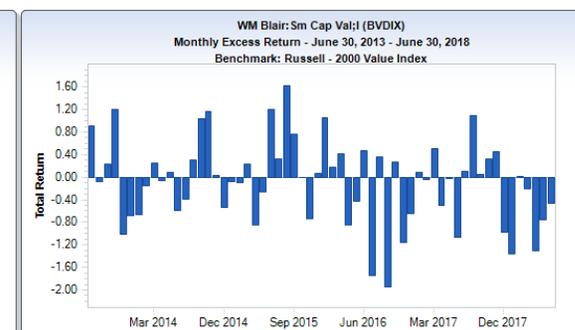
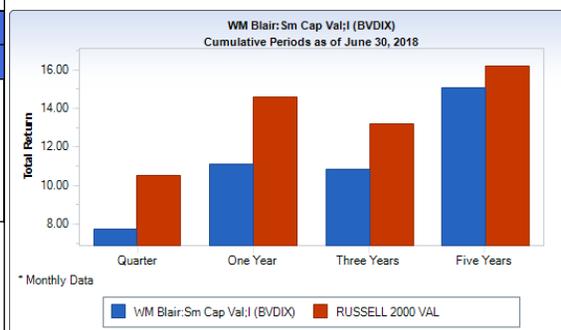


Performance Fact Sheet: WM Blair:Sm Cap Val;I (BVDIX)

Fund Family:	WILLIAM BLAIR & COMPANY LLC	Net Assets (\$MM):	\$621.70
Asset Class:	U.S. Equity	Expense Ratio:	1.25
Style Category:	Small-Cap Core Funds	Front Load:	
Objective Category:	SMALL-CAP	12B-1 Fee:	
Ticker:	BVDIX	Turnover:	38.00
Share Class:	I	Mgr Tenure:	19

Historical Returns	Annualized Ended 6/30/2018				Annual Returns									
	1 Year	3 Years	5 Years	10 Years	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
WM Blair:Sm Cap Val;I (BVDIX)	11.10	10.87	15.04	12.98	0.76	22.09	13.36	14.18	48.67	10.21	-4.37	24.32	7.50	-7.17
RUSSELL 2000 VAL	14.56	13.17	16.20	12.77	0.75	27.19	10.97	13.62	43.54	15.43	-3.16	18.02	2.38	-11.11
Risk - Standard Deviation														
WM Blair:Sm Cap Val;I (BVDIX)	12.43	12.78	12.71	14.37	12.78	16.06	11.88	13.11	9.76	8.14	14.05	14.62	21.11	21.93
RUSSELL 2000 VAL	12.17	13.69	13.00	15.89	12.41	17.65	12.30	12.63	8.93	9.78	14.54	16.69	27.65	22.69
Risk - Semi-Variance														
WM Blair:Sm Cap Val;I (BVDIX)	8.40	8.18	8.84	10.67	8.65	10.14	9.83	8.73	7.55	5.69	9.50	11.75	16.82	15.71
RUSSELL 2000 VAL	8.21	8.74	9.01	12.05	8.29	11.27	9.67	8.89	7.04	6.90	9.90	13.52	22.06	16.10
Excess Returns														
Arithmetic Excess	-3.46	-2.30	-1.16	0.21	0.01	-5.10	2.39	0.56	5.13	-5.22	-1.21	6.30	5.12	3.94
Geometric Excess	-3.02	-2.03	-1.00	0.19	0.01	-4.01	2.15	0.49	3.57	-4.52	-1.25	5.34	5.00	4.43

Excess Statistics Manager vs. Benchmark	Annualized Ended 6/30/2018			
	1 Year	3 Years	5 Years	10 Years
Tracking Error	2.57	2.79	2.60	3.72
Information Ratio	-1.17	-0.73	-0.38	0.05
Downside Deviation	1.85	2.07	1.88	2.33
Skewness	0.00	-0.23	-0.13	1.04
Kurtosis	-0.59	-0.08	0.01	3.70
Alpha	-2.53	-1.12	-0.53	0.94
Beta	0.95	0.90	0.95	0.91
Residual Risk	2.51	2.44	2.55	3.19
R Squared	0.95	0.97	0.97	0.97



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