

Lubbock Fire Pension Fund

Quarterly Report

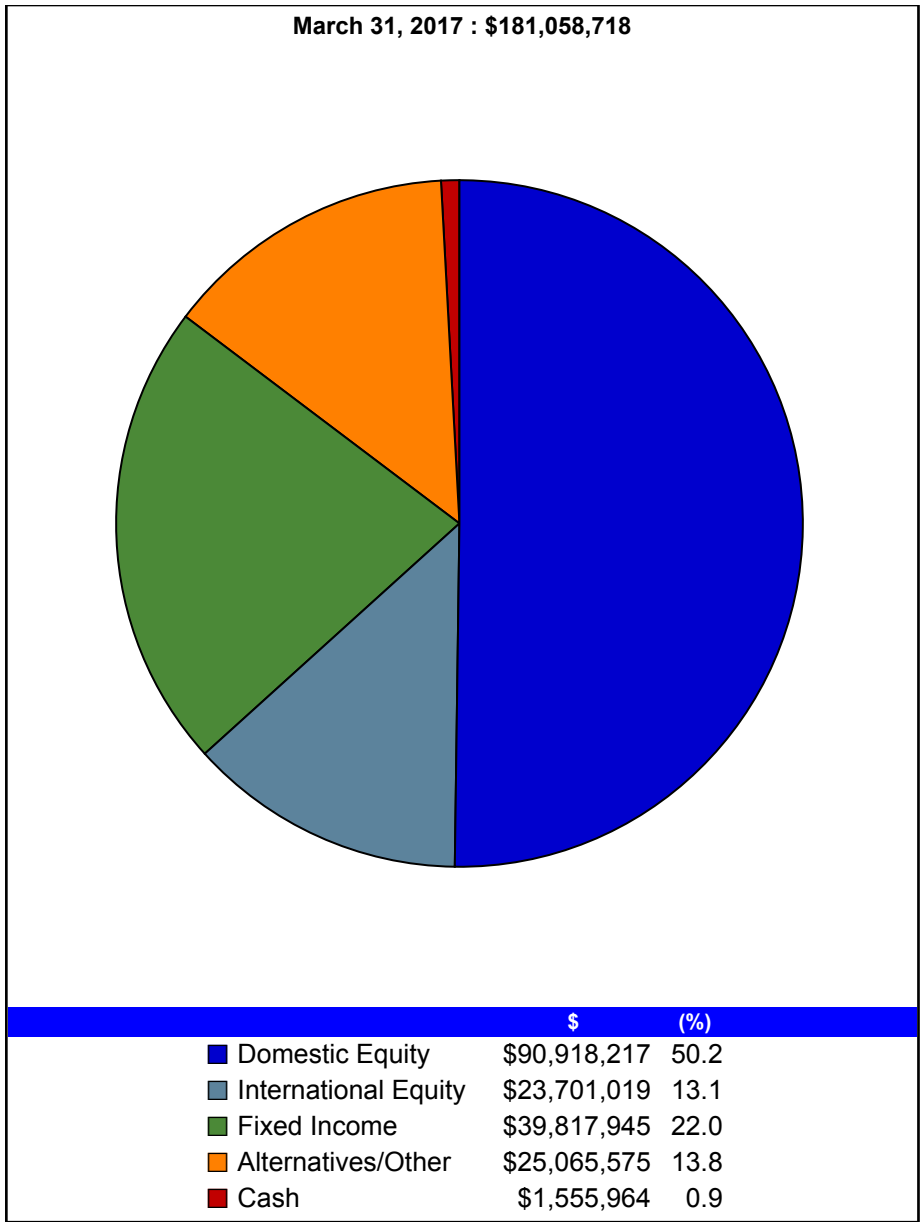
March 31, 2017

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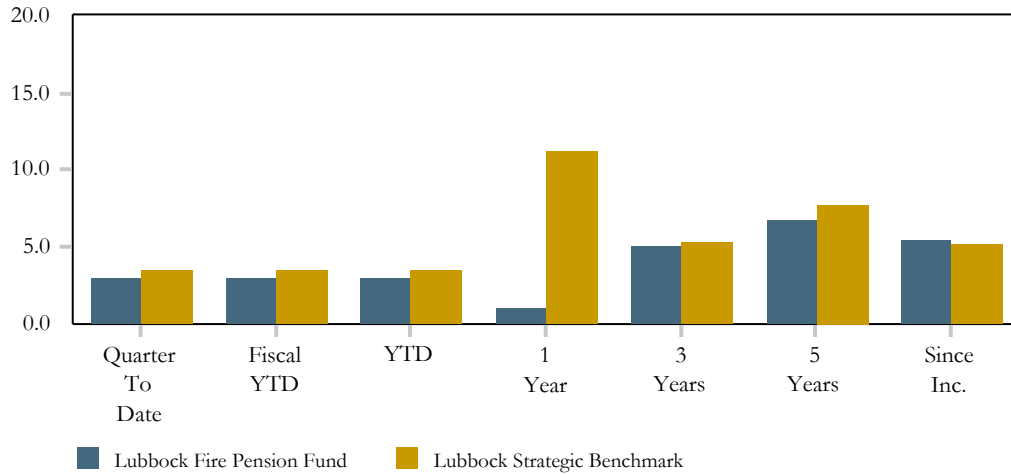
**Lubbock Fire Pension Fund
Balances & Asset Allocation
As of March 31, 2017**

	Total Fund	%
Domestic Equity	\$90,918,217	50.2
Luther King Capital Management - Equity	\$63,067,376	34.8
Westwood Management Corp	\$27,850,841	15.4
International Equity	\$23,701,019	13.1
Lazard - Intl Eq Sel with Emerging Mkts	\$13,253,074	7.3
WCM Investment Management	\$10,447,945	5.8
Fixed Income	\$39,817,945	22.0
Blackstone RE Income Fund IA	\$9,415,516	5.2
Luther King Capital Management - Fixed Income	\$30,402,428	16.8
Alternatives/Other	\$25,065,575	13.8
AcI Alt Fund Limited USD CL A	\$9,210,418	5.1
CDK Realty Advisors	\$3,608,395	2.0
W.R. Huff Asset Mgmt Co	\$6,639,260	3.7
Goldman Sach Private Eq Ptrs x On	\$3,289,000	1.8
Blackstone Tactical Opps	\$2,284,155	1.3
Cbre Capital Partners On	\$34,346	0.0
Cash	\$1,555,964	0.9
Lubbock Fire Pension Fund	\$181,058,718	100.0

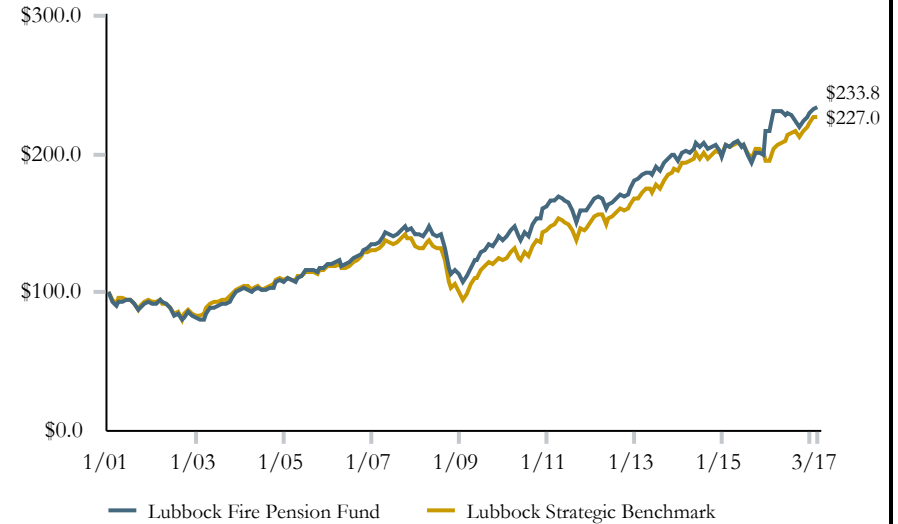


Lubbock Fire Pension Fund As of 03/31/17

Manager Performance



Growth of \$100

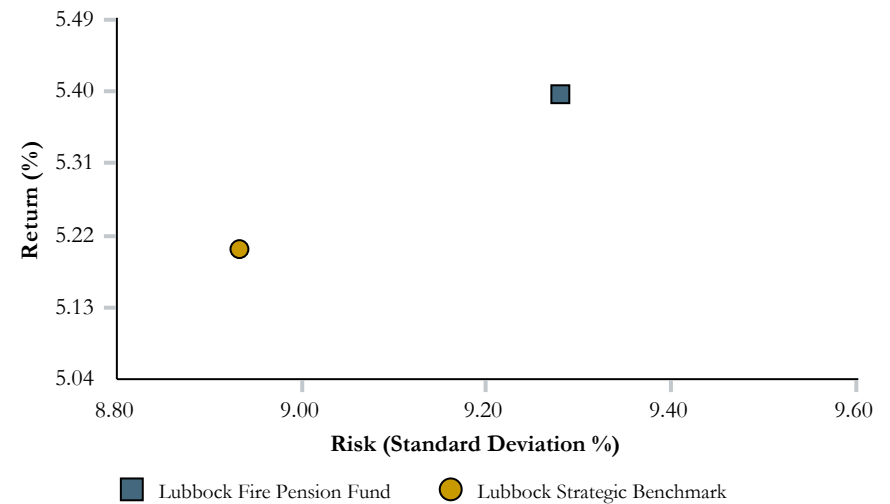


	Quarter To Date	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	Since Inc.	Inception Date
Lubbock Fire Pension (Gross)	3.08	3.08	1.26	5.30	7.09	7.42	5.80	02/28/2001
Lubbock Fire Pension (Net)	3.00	3.00	1.07	5.02	6.72	7.02	5.42	02/28/2001
Lubbock Strategic Benchmark	3.42	3.42	11.27	5.34	7.77	8.31	5.22	02/28/2001

Asset Growth (\$000)

	Quarter To Date	Fiscal YTD	1 Year	3 Years	5 Years	7 Years	Since Inc.	Inception Date
Lubbock Fire Pension Fund								02/28/2001
Beginning Market Value	176,467	176,467	173,975	182,256	158,696	143,182	125,178	
Net Contributions	-831	-831	-3,285	-14,179	-22,187	-30,525	-64,011	
Gain/Loss	5,423	5,423	10,369	12,982	44,550	68,402	119,891	
Ending Market Value	181,059	181,059	181,059	181,059	181,059	181,059	181,059	

Risk/Return Analysis Since Inception



Lubbock Fire Pension Fund

As of March 31, 2017

	Allocation		Performance(%)						
	Market Value (\$000)	%	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Lubbock Fire Pension Fund	181,058.72	100.00	3.00	3.00	1.07	5.02	6.72	5.42	01/31/2001
Lubbock Strategic Benchmark			3.42	3.42	11.27	5.34	7.77	5.20	
Cash	1,555.96	0.86							
90-Day T-Bills			0.12	0.12	0.34	0.15	0.11	1.43	
Domestic Equity	90,918.22	50.21	5.01	5.01	15.74	6.08	11.04	6.85	01/01/2001
Russell 3000			5.74	5.74	18.07	9.76	13.19	6.11	
Luther King Capital Management - Equity	63,067.38	34.83	6.08	6.08	15.34	6.82	11.46	6.44	12/31/2000
Russell 3000			5.74	5.74	18.07	9.76	13.19	6.11	
Westwood Management Corp - SMID	27,850.84	15.38	2.65	2.65	16.65	4.54	10.14	11.14	01/31/2005
Russell 2500			3.76	3.76	21.53	7.43	12.60	9.05	
International Equity	23,701.02	13.09	9.07	9.07	7.97	-3.45	1.01	-0.91	11/01/2007
MSCI EAFE Net			7.25	7.25	11.67	0.50	5.83	-0.19	
Lazard - Intl Eq Sel with Emerging Mkts	13,253.07	7.32	7.42	7.42	6.35	-0.63	N/A	2.97	12/31/2012
MSCI AC World ex US Net			7.86	7.86	13.13	0.56	4.36	3.93	
WCM Investment Management - Intl Equity	10,447.94	5.77	11.24	11.24	10.10	N/A	N/A	16.35	02/29/2016
MSCI EAFE Gr Net			8.52	8.52	7.45	1.49	6.00	12.98	
Fixed Income	39,817.94	21.99	-1.50	-1.50	-2.81	-0.04	0.29	3.62	01/01/2001
Barclays Aggregate			0.82	0.82	0.44	2.68	2.34	4.79	
Blackstone BREIF II	9,415.52	5.20	1.74	1.74	8.44	N/A	N/A	0.87	04/24/2015
Barclays Aggregate			0.82	0.82	0.44	2.68	2.34	1.18	
Luther King Capital Management - Fixed Income	30,402.43	16.79	-2.47	-2.47	-4.43	-0.60	-0.05	3.51	12/31/2000
BC Gov/Cr Intm			0.78	0.78	0.42	2.01	1.88	4.35	
Alternatives/Other	25,065.57	13.84	-1.46	-1.46	-11.51	-1.15	-0.41	1.43	10/01/2005
Abbey Capital*	9,210.42	5.09	-3.10	-3.10	-10.41	3.31	0.21	-1.02	02/28/2011
Bloomberg Commodity TR			-2.33	-2.33	8.72	-13.91	-9.54	-10.16	

All returns presented net of fees

*Returns calculated using dollar-weighted methodology

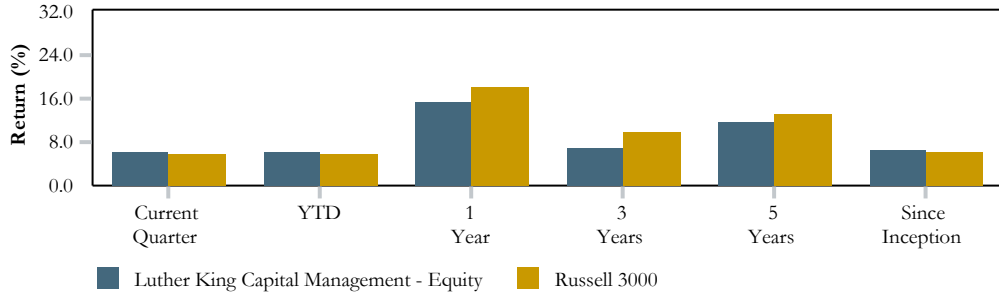
Lubbock Fire Pension Fund

As of March 31, 2017

	Allocation		Performance(%)						
	Market Value (\$000)	%	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
CDK Realty Advisors*	3,608.40	1.99	-0.82	-0.82	-36.88	-5.29	-4.28	-1.21	10/31/2005
Russell NCREIF Property I			1.55	1.55	7.27	10.58	10.69	8.13	
W.R. Huff Asset Mgmt Co*	6,639.26	3.67	-0.01	-0.01	-2.14	-3.12	-2.16	4.80	12/31/2006
Absolute Return 13%			3.10	3.10	13.00	13.00	13.00	12.99	
Goldman Sach Private Eq*	3,289.00	1.82	-1.91	-1.91	11.97	9.46	12.06	9.08	09/30/2008
Absolute Return 13%			3.10	3.10	13.00	13.00	13.00	12.99	
Blackstone Tactical Opps*	2,284.16	1.26	0.08	0.08	10.28	N/A	N/A	7.43	03/31/2015
Absolute Return 13%			3.10	3.10	13.00	13.00	13.00	12.98	
Cbre Capital Partners*	34.35	0.02	83.94	83.94	24.81	29.80	19.14	14.49	03/31/2011
Russell NCREIF Property I			1.55	1.55	7.27	10.58	10.69	11.13	

*Returns calculated using dollar-weighted methodology

Portfolio Performance (%)

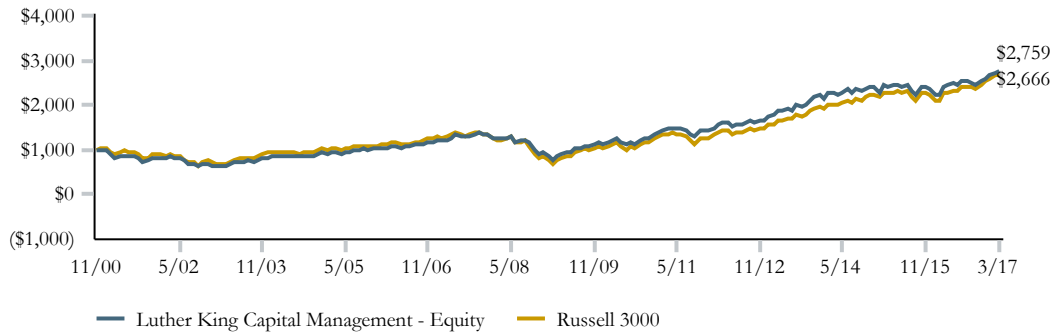


	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Luther King Capital Management - Equity	6.08	6.08	15.34	6.82	11.46	6.44	12/29/2000
Russell 3000	5.74	5.74	18.07	9.76	13.19	6.18	12/01/2000

Asset Growth (\$000)

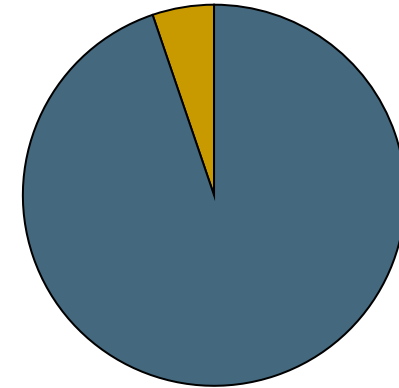
	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Luther King Capital Management - Equity							12/29/2000
Beginning Market Value	59,476	59,476	53,814	54,250	49,604	67,640	
Net Contributions	-24	-24	914	-2,498	-15,381	-64,599	
Fees/Expenses	-45	-45	-148	-572	-1,040	-3,431	
Income	238	238	1,475	3,266	4,930	9,749	
Gain/Loss	3,422	3,422	7,012	8,622	24,954	53,709	
Ending Market Value	63,067	63,067	63,067	63,067	63,067	63,067	

Growth of a Dollar (\$000)



Asset Allocation (\$000)

March 31, 2017 : \$63,067

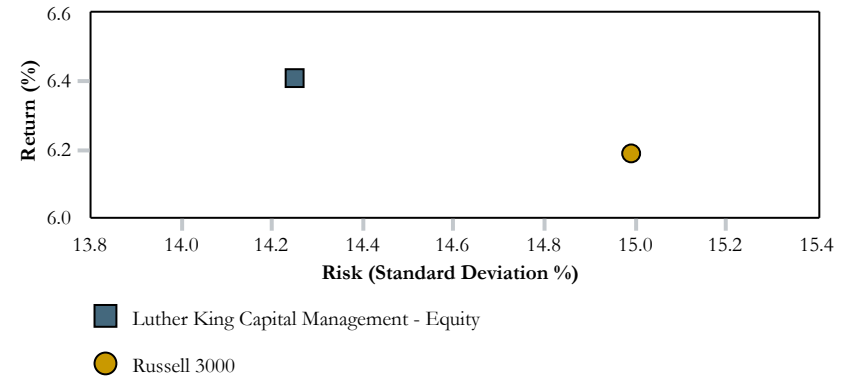


Segments	Market Value (\$000)	Allocation (%)
Domestic Equity	59,774.56	94.78
Cash Equivalent	3,292.81	5.22

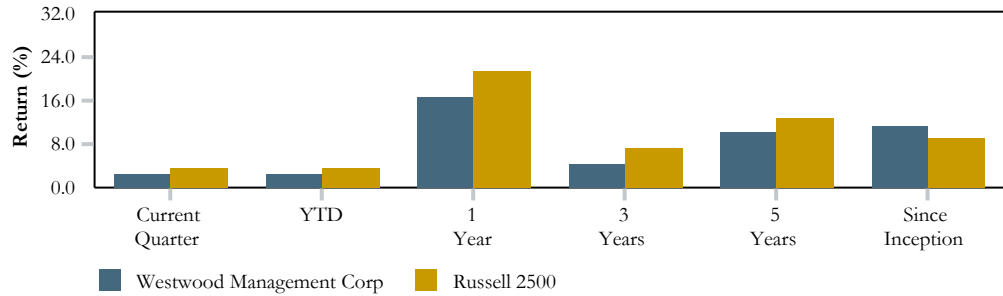
Portfolio Characteristics vs. Russell 3000 Since Inception

	Beta	Alpha	R-Squared	Sharpe Ratio	Inception Date
Luther King Capital Management - Equity	0.92	0.64	0.95	0.41	12/29/2000

Risk/Return Analysis Since 12/01/00



Portfolio Performance (%)

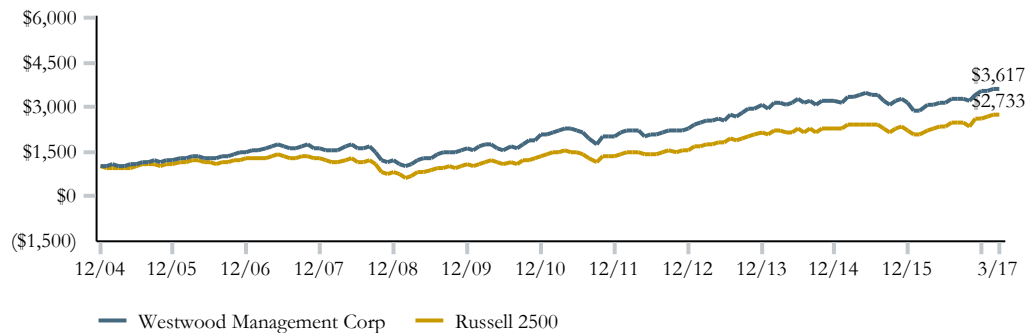


	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Westwood Management Corp	2.65	2.65	16.65	4.54	10.14	11.14	01/31/2005
Russell 2500	3.76	3.76	21.53	7.43	12.60	9.05	01/31/2005

Asset Growth (\$000)

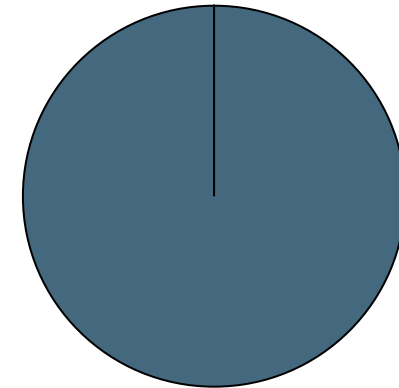
	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Westwood Management Corp							01/31/2005
Beginning Market Value	27,128	27,128	23,874	26,057	20,893	12,668	
Net Contributions	3	3	1	-1,705	-4,705	-9,887	
Fees/Expenses	-1	-1	-76	-323	-610	-1,468	
Income	-	-	-	399	1,161	3,317	
Gain/Loss	720	720	4,052	3,422	11,111	23,221	
Ending Market Value	27,851	27,851	27,851	27,851	27,851	27,851	

Growth of a Dollar (\$000)



Asset Allocation (\$000)

March 31, 2017 : \$27,851

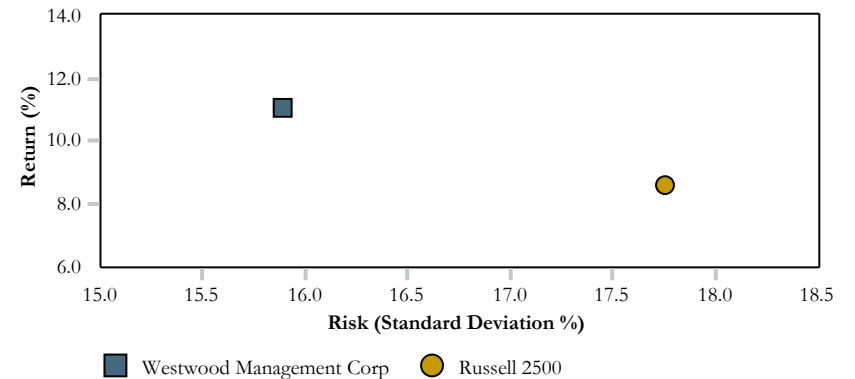


Segments	Market Value (\$000)	Allocation (%)
Domestic Equity	27,848.06	99.99
Cash Equivalent	2.78	0.01

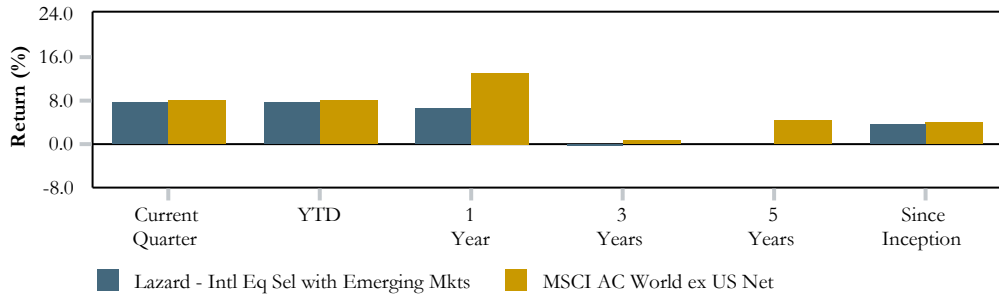
Portfolio Characteristics vs. Russell 2500 Since Inception

	Beta	Alpha	R-Squared	Sharpe Ratio	Inception Date
Westwood Management Corp	0.86	3.40	0.93	0.67	01/31/2005

Risk/Return Analysis Since 01/01/05



Portfolio Performance (%)

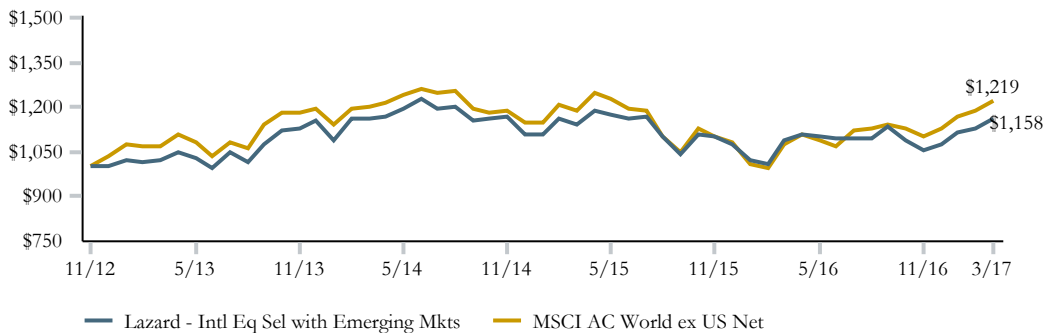


	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Lazard - Intl Eq Sel with Emerging Mkts	7.55	7.55	6.65	-0.15	N/A	3.52	12/31/2012
MSCI AC World ex US Net	7.86	7.86	13.13	0.56	4.36	3.93	12/31/2012

Asset Growth (\$000)

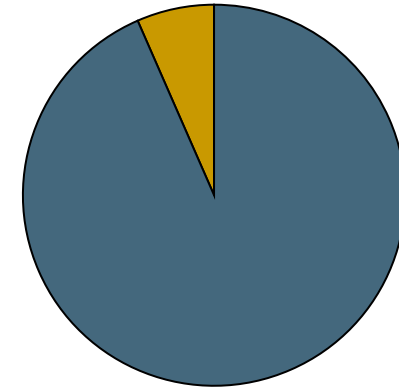
	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Lazard - Intl Eq Sel with Emerging Mkts							12/31/2012
Beginning Market Value	12,343	12,343	12,546	12,449	-	9,281	
Net Contributions	-5	-5	-85	1,096	-	2,506	
Fees/Expenses	-16	-16	-36	-189	-	-276	
Income	32	32	290	869	-	1,123	
Gain/Loss	899	899	538	-973	-	619	
Ending Market Value	13,253	13,253	13,253	13,253	-	13,253	

Growth of a Dollar (\$000)



Asset Allocation (\$000)

March 31, 2017 : \$13,253

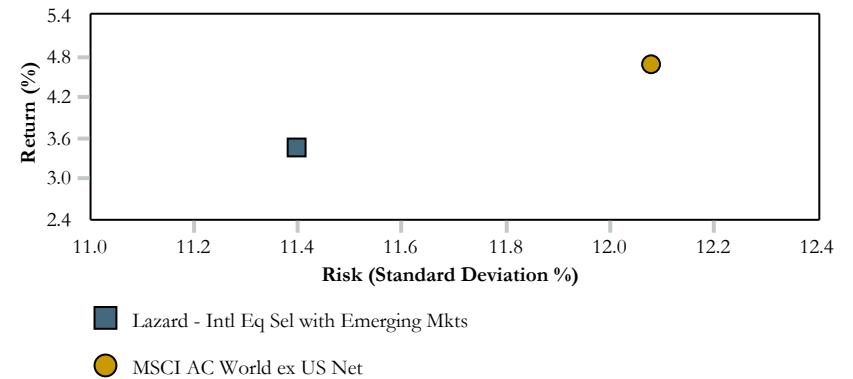


Segments	Market Value (\$000)	Allocation (%)
International Equity	12,385.27	93.45
Cash Equivalent	867.81	6.55

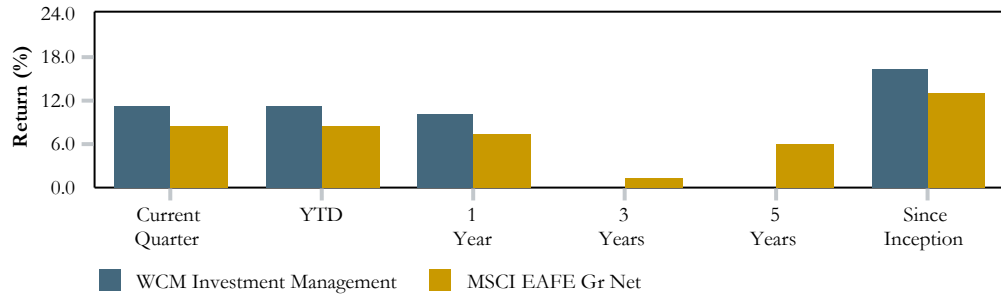
Portfolio Characteristics vs. MSCI AC World ex US Net Since Inception

	Beta	Alpha	R-Squared	Sharpe Ratio	Inception Date
Lazard - Intl Eq Sel with Emerging Mkts	0.87	-0.58	0.85	0.34	12/31/2012

Risk/Return Analysis Since 12/01/12



Portfolio Performance (%)

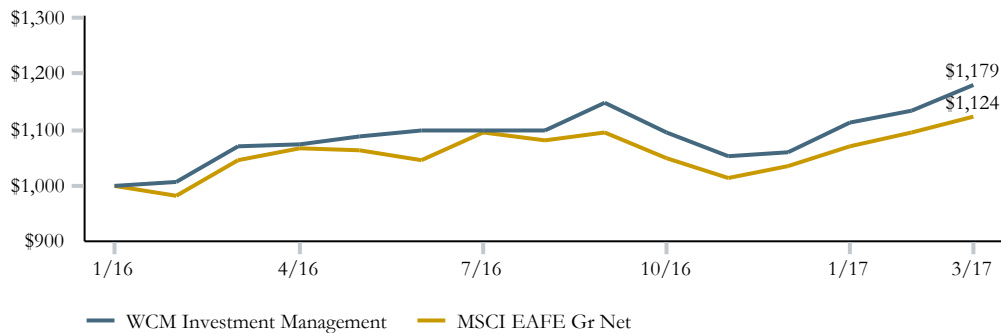


	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
WCM Investment Management	11.24	11.24	10.10	N/A	N/A	16.35	02/29/2016
MSCI EAFE Gr Net	8.52	8.52	7.45	1.49	6.00	12.98	02/29/2016

Asset Growth (\$000)

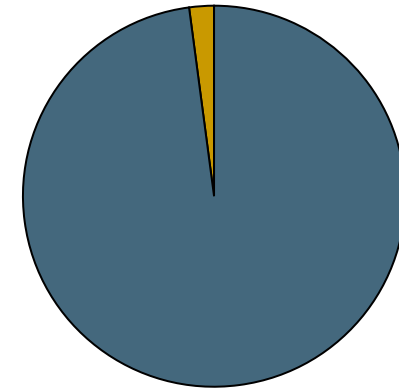
	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
WCM Investment Management							02/29/2016
Beginning Market Value	9,396	9,396	9,511	-	-	8,896	
Net Contributions	-4	-4	-22	-	-	-23	
Fees/Expenses	-18	-18	-37	-	-	-37	
Income	29	29	134	-	-	136	
Gain/Loss	1,044	1,044	862	-	-	1,475	
Ending Market Value	10,448	10,448	10,448	-	-	10,448	

Growth of a Dollar (\$000)



Asset Allocation (\$000)

March 31, 2017 : \$10,448

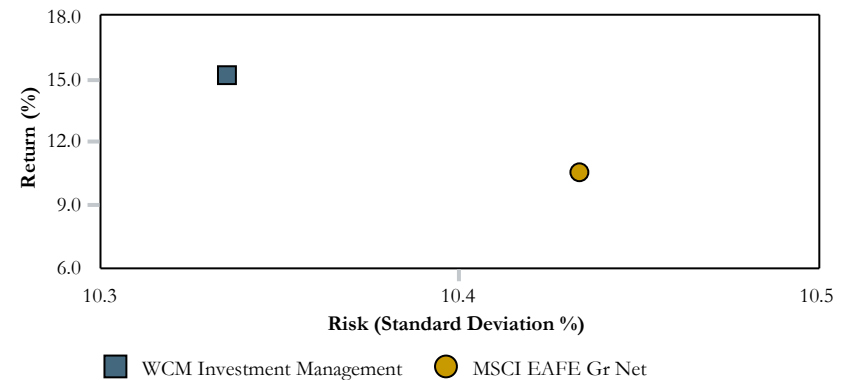


Segments	Market Value (\$000)	Allocation (%)
Domestic Equity	10,228.83	97.90
Cash Equivalent	219.12	2.10

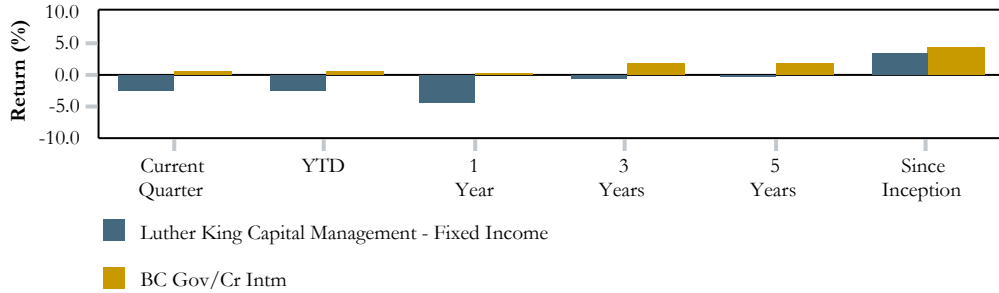
Portfolio Characteristics vs. MSCI EAFE Gr Net Since Inception

	Beta	Alpha	R-Squared	Sharpe Ratio	Inception Date
WCM Investment Management	0.76	6.89	0.59	1.39	02/29/2016

Risk/Return Analysis Since 02/01/16



Portfolio Performance (%)

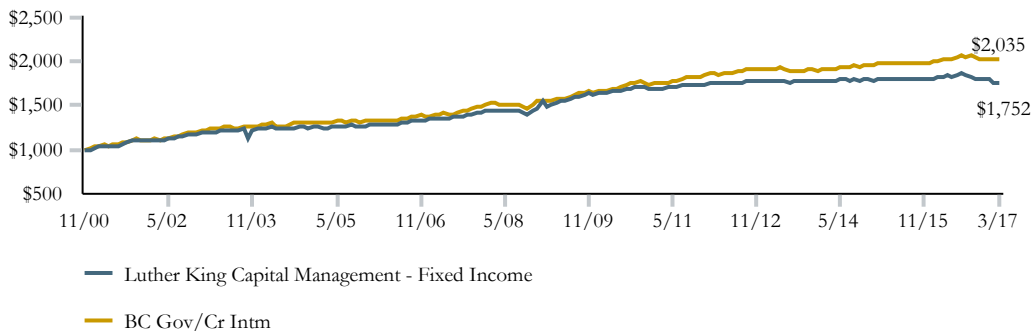


	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Luther King Capital Management - Fixed Income	-2.47	-2.47	-4.43	-0.60	-0.05	3.51	12/31/2000
BC Gov/Cr Intm	0.78	0.78	0.42	2.01	1.88	4.35	12/31/2000

Asset Growth (\$000)

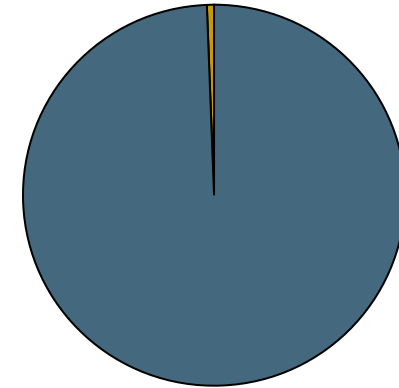
	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Luther King Capital Management - Fixed Income							12/31/2000
Beginning Market Value	30,684	30,684	32,327	42,957	38,017	46,560	
Net Contributions	489	489	-526	-12,164	-7,824	-38,934	
Fees/Expenses	-9	-9	-37	-207	-406	-1,193	
Income	192	192	555	2,162	4,416	13,518	
Gain/Loss	-954	-954	-1,917	-2,346	-3,801	10,451	
Ending Market Value	30,402	30,402	30,402	30,402	30,402	30,402	

Growth of a Dollar (\$000)



Asset Allocation (\$000)

March 31, 2017 : \$30,402

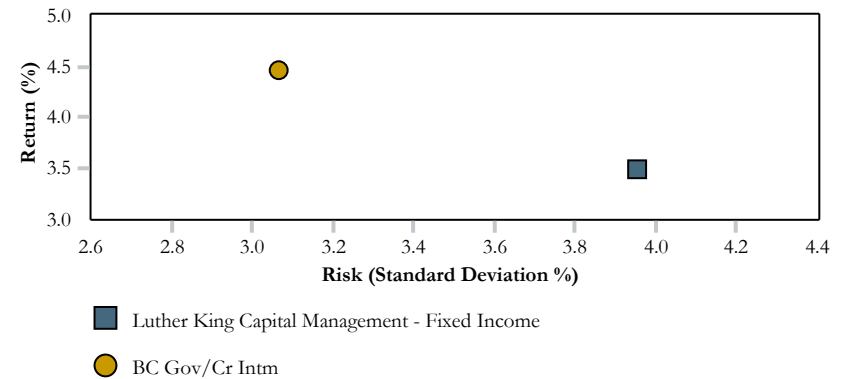


Segments	Market Value (\$000)	Allocation (%)
Domestic Fixed Income	30,217.26	99.39
Cash Equivalent	185.17	0.61

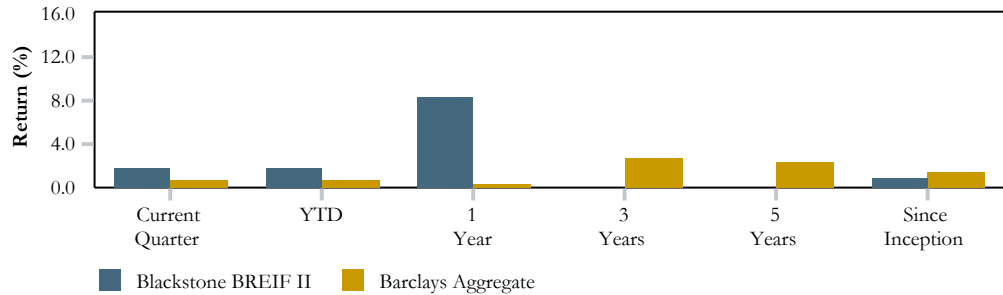
Portfolio Characteristics vs. BC Gov/Cr Intm Since Inception

	Beta	Alpha	R-Squared	Sharpe Ratio	Inception Date
Luther King Capital Management - Fixed Income	0.67	0.57	0.27	0.54	12/31/2

Risk/Return Analysis Since 12/01/00



Portfolio Performance (%)

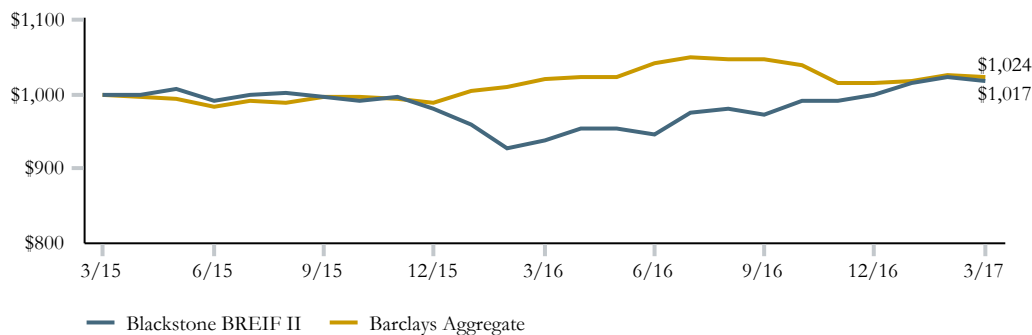


	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Blackstone BREIF II	1.74	1.74	8.44	N/A	N/A	0.88	04/30/2015
Barclays Aggregate	0.82	0.82	0.44	2.68	2.34	1.40	04/30/2015

Asset Growth (\$000)

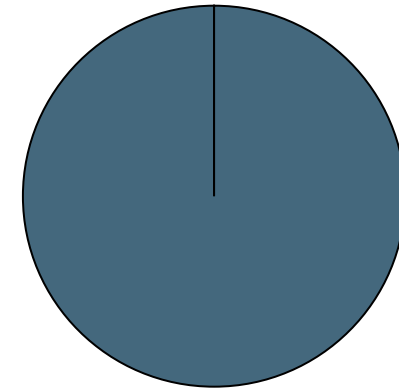
	Current Quarter	YTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Blackstone BREIF II							04/30/2015
Beginning Market Value	9,594	9,594	9,186	-	-	10,000	
Net Contributions	-342	-342	-533	-	-	-844	
Fees/Expenses	-1	-1	-6	-	-	-20	
Income	-	-	535	-	-	750	
Gain/Loss	165	165	233	-	-	-470	
Ending Market Value	9,416	9,416	9,416	-	-	9,416	

Growth of a Dollar (\$000)



Asset Allocation (\$000)

March 31, 2017 : \$9,416

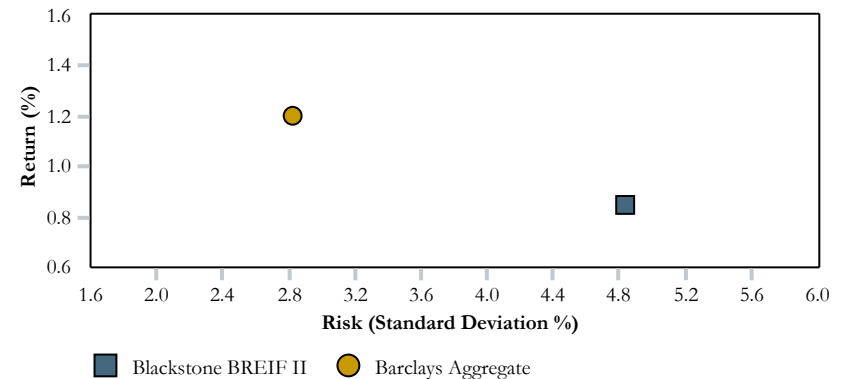


Segments	Market Value (\$000)	Allocation (%)
Alternative Investment	9,414.98	99.99
Cash Equivalent	0.54	0.01

Portfolio Characteristics vs. Barclays Aggregate Since Inception

	Beta	Alpha	R-Squared	Sharpe Ratio	Inception Date
Blackstone BREIF II	-0.13	1.12	0.01	0.16	04/30/2015

Risk/Return Analysis Since 04/01/15



Performance Appendix

Portfolio Name	QTD	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Acl Alt Fund Limited USD CL A	-3.10	-3.10	-10.41	7.48	1.23	--	-0.61	02/01/2011
Blackstone	0.08	0.08	10.34	--	--	--	-0.43	03/01/2015
Blackstone RE Income Fund IA	1.74	1.74	8.44	--	--	--	0.85	04/01/2015
CDK Realty Advisors	-0.84	-0.84	-34.42	-8.34	-6.04	-2.72	-1.55	10/01/2005
Cbre Capital Partners On	64.83	64.83	38.91	-25.48	-10.55	--	-8.64	03/01/2011
Frost Bank - Galveston	-2.06	-2.06	11.69	3.50	1.20	12.81	16.79	12/01/2000
Goldman Sach Private Eq Ptrs x On	-1.93	-1.93	11.57	7.89	11.09	--	-3.27	09/01/2008
Lazard - Intl Eq Sel with Emerging Mkts	7.42	7.42	6.35	-0.63	--	--	2.91	12/01/2012
Luther King Capital Management - Equity	6.08	6.08	15.34	6.82	11.46	8.43	6.41	12/01/2000
Luther King Capital Management - Fixed Income	-2.47	-2.47	-4.43	-0.60	-0.05	2.57	3.49	12/01/2000
W.R. Huff Asset Mgmt Co	-0.01	-0.01	-2.14	-3.15	-1.98	7.80	7.54	12/01/2006
WCM Investment Management	11.24	11.24	10.10	--	--	--	15.13	02/01/2016
Westwood Management Corp	2.65	2.65	16.65	4.54	10.14	8.48	11.07	01/01/2005

Glossary of Terms

Active Contribution Return: The gain or loss percentage of an investment relative to the performance of the investment benchmark.

Active Exposure: The percentage difference in weight of the portfolio compared to its policy benchmark.

Active Return: Arithmetic difference between the manager's return and the benchmark's return over a specified time period.

Actual Correlation: A measure of the correlation (linear dependence) between two variables X and Y, with a value between +1 and -1 inclusive. This is also referred to as coefficient of correlation.

Alpha: A measure of a portfolio's time weighted return in excess of the market's return, both adjusted for risk. A positive alpha indicates that the portfolio outperformed the market on a risk-adjusted basis, and a negative alpha indicates the portfolio did worse than the market.

Best Quarter: The highest quarterly return for a certain time period.

Beta: A measure of the sensitivity of a portfolio's time weighted return (net of fees) against that of the market. A beta greater than 1.00 indicates volatility greater than the market.

Consistency: The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. The higher the consistency figure, the more value a manager has contributed to the product's performance.

Core: Refers to an investment strategy mandate that is blend of growth and value styles without a pronounced tilt toward either style.

Cumulative Selection Return (*Cumulative Return*): Cumulative investment performance over a specified period of time.

Distribution Rate: The most recent distribution paid, annualized, and then divided by the current market price. Distribution rate may consist of investment income, short-term capital gains, long-term capital gains, and/or return of capital.

Down Market Capture: The ratio of average portfolio returns over the benchmark during periods of negative benchmark return. Lower values indicate better product performance.

Downside Risk: A measure similar to standard deviation, but focuses only on the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. The higher the value, the more risk the product has.

Downside Semi Deviation: A statistical calculation that measures the volatility of returns below a minimum acceptable return. This return measure isolates the negative portion of volatility: the larger the number, the greater the volatility.

Drawdown: A drawdown is the peak-to-trough decline during a specific period of an investment, fund or commodity.

Excess over Benchmark: The percentage gain or loss of an investment relative to the investment's benchmark.

Excess Return: Arithmetic difference between the manager's return and the risk-free return over a specified time period.

Growth: A diversified investment strategy which includes investment selections that have capital appreciation as the primary goal, with little or no dividend payouts. These strategies can include reinvestment in expansion, acquisitions, and/or research and development opportunities.

Growth of Dollar: The aggregate amount an investment has gained or lost over a certain time period, also referred to as Cumulative Return, stated in terms of the amount to which an initial dollar investment would have grown over the given time period.

Investment Decision Process (IDP): A model for structuring the investment process and implementing the correct attribution methodologies. The IDP includes every decision made concerning the division of the assets under management over the various asset categories. To analyze each decision's contribution to the total return, a modeling approach must measure the marginal value of every individual decision. In this respect, the hierarchy of the decisions becomes very important. We therefore use the IDP model, which serves as a proper foundation for registering the decisions and relating them to each other.

Information Ratio: Measured by dividing the active rate of return by the tracking error. The higher the Information Ratio, the more value-added contribution by the manager.

Jensen's Alpha: The Jensen's alpha measure is a risk-adjusted performance measure that represents the average return on a portfolio or investment above or below that predicted by the capital asset pricing model (CAPM) given the portfolio's or investment's beta and the average market return. This metric is also commonly referred to as alpha.

Kurtosis: A statistical measure that is used to describe the distribution, or skewness, of observed data around the mean, sometimes referred to as the volatility of volatility.

Maximum Drawdown: The drawdown is defined as the percent retrenchment from a fund's peak to the fund's trough value. It is in effect from the time the fund's retrenchment begins until a new fund high is reached. The maximum drawdown encompasses both the period from the fund's peak to the fund's valley (length), and the time from the fund's valley to a new fund high (recovery). It measures the largest percentage drawdown that has occurred in any fund's data record.

Modern Portfolio Theory (MPT): An investment analysis theory on how risk-averse investors can construct portfolios to optimize or maximize expected return based on a given level of market risk, emphasizing that risk is an inherent part of higher reward.

Mutual Fund (MF): An investment program funded by shareholders that trade in diversified holdings and is professionally managed.

Peer Group: A combination of funds that share the same investment style combined as a group for comparison purposes.

Peer/ Plan Sponsor Universe: A combination of asset pools of total plan investments by specific sponsor and plan types for comparison purposes.

Performance Ineligible Assets: Performance returns are not calculated for certain assets because accurate valuations and transaction data for these assets are not processed or maintained by us. Common examples of

these include life insurance, some annuities and some assets held externally.

Performance Statistics: A generic term for various measures of investment performance measurement terms.

Portfolio Characteristics: A generic term for various measures of investment portfolio characteristics.

Preferred Return: A term used in the private equity (PE) world, and also referred to as a “Hurdle Rate.” It refers to the threshold return that the limited partners of a private equity fund must receive, prior to the PE firm receiving its carried interest or "carry."

Ratio of Cumulative Wealth: A defined ratio of the Cumulative Return of the portfolio divided by the Cumulative Return of the benchmark for a certain time period.

Regression Based Analysis: A statistical process for estimating the relationships among variables. It includes many techniques for modeling and analyzing several variables, when the focus is on the relationship between a dependent variable and one or more independent variables

Residual Correlation: Within returns-based style analysis, residual correlation refers to the portion of a strategy’s return pattern that cannot be explained by its correlation to the asset-class benchmarks to which it is being compared.

Return: A rate of investment performance for the specified period.

Rolling Percentile Ranking: A measure of an investment portfolio’s ranking versus a peer group for a specific rolling time period (i.e. Last 3 Years, Last 5 years, etc.).

R-Squared: The percentage of a portfolio's performance explained by the behavior of the appropriate benchmark. High R-Squared means a higher correlation of the portfolio's performance to the appropriate benchmark.

SA/CF (Separate Account/Comingled Fund): Represents an acronym for Separate Account and Commingled Fund investment vehicles.

Sector Benchmark: A market index that serves as a proxy for a sector within an asset class.

Sharpe Ratio: Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is the absolute rate of return per unit of risk. The higher the value, the better the product’s historical risk-adjusted performance results in.

Standard Deviation: A statistical measure of the range of a portfolio's performance; the variability of a return around its average return over a specified time period.

Total Fund Benchmark: The policy benchmark for a complete asset pool that could consist of multiple investment mandates.

Total Fund Composite: The aggregate of multiple portfolios within an asset pool or household.

Tracking Error: A measure of standard deviation for a portfolio's investment performance, relative to the performance of an appropriate market benchmark.

Treynor Ratio: A ratio that divides the excess return (above the risk free rate) by the portfolio’s beta to arrive at a unified measure of risk adjusted return. It is generally used to rank portfolios, funds and benchmarks. A higher ratio is indicative of higher returns per unit of market risk. This measurement can help determine if the portfolio is reaching its goal of increasing returns while managing market risk.

Up Market Capture: The ratio of average portfolio returns over the benchmark during periods of positive benchmark return. Higher values indicate better product performance.

Upside Semi Deviation: A statistical calculation that measures the volatility of returns above an acceptable return. This return measure isolates the positive portion of volatility: the larger the number, the greater the volatility.

Value: A diversified investment strategy that includes investment selections which tend to trade at a lower price relative to its dividends, earnings, and sales. Common attributes are stocks that include high dividend, low price-to-book ratio, and/or low price-to-earnings ratio.

Worst Quarter: The lowest rolling quarterly return for a certain time period.

Information Disclosures

The performance data shown reflects past performance, which does not guarantee future results. Investment return and principal will fluctuate so that an investor’s shares when redeemed may be worth more or less than original cost. Please note, current performance may be higher or lower than the performance data shown. For up to date month-end performance information, please contact your Financial Advisor or visit the funds’ company website.

Investors should carefully consider the fund’s investment objectives, risks, charges and expenses before investing. The prospectus and, if available the summary prospectus, contains this and other information that should be read carefully before investing. Investors should review the information in the prospectus carefully. To obtain a prospectus, please contact your Financial Advisor or visit the funds’ company website.

Past performance is no guarantee of future results.

Investing involves market risk, including possible loss of principal. **Growth investing** does not guarantee a profit or eliminate risk. The stocks of these companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock can be more risky than an investment in a company with more modest growth expectations. **Value investing** involves the risk that the market may not recognize that securities are undervalued and they may not appreciate as anticipated. **Small and mid-capitalization companies** may lack the financial resources, product diversification and competitive strengths of larger companies. The securities of small capitalization companies may not trade as readily as, and be subject to higher volatility than those of larger, more established companies. **Bond funds** and bond holdings have the same interest rate, inflation and credit risks that are associated with the underlying bonds owned by the funds. The return of principal in bond funds, and in funds with significant bond holdings, is not guaranteed. **International securities’** prices may carry additional risks, including foreign economic, political, monetary and/or legal factors, changing currency exchange rates, foreign taxes and differences in financial and accounting standards. International investing may not be for everyone. These risks may be magnified in emerging markets. **Alternative investments**, including private equity funds, real estate funds, hedge funds, managed futures funds, and funds of hedge funds, private equity, and managed futures funds, are speculative and entail significant risks that can include losses due to leveraging or other speculative investment practices, lack of liquidity, volatility of returns, restrictions on transferring interests in a fund, potential lack of diversification, absence and/or delay of information regarding valuations and pricing, complex tax structures and delays in tax reporting, less regulation and higher fees than mutual funds and risks associated with the operations, personnel and processes of the advisor. **Master Limited Partnerships (MLPs)** are limited partnerships or limited liability companies that are taxed as partnerships and whose interests (limited partnership units or limited liability company units) are traded on securities exchanges like shares of common stock. Currently, most MLPs operate in the energy, natural resources or real estate

sectors. Investments in MLP interests are subject to the risks generally applicable to companies in the energy and natural resources sectors, including commodity pricing risk, supply and demand risk, depletion risk and exploration risk; and MLP interests in the real estate sector are subject to special risks, including interest rate and property value fluctuations, as well as risks related to general and economic conditions. Because of their narrow focus, MLPs maintain exposure to price volatility of commodities and/or underlying assets and tend to be more volatile than investments that diversify across many sectors and companies. MLPs are also subject to additional risks including: investors having limited control and rights to vote on matters affecting the MLP, limited access to capital, cash flow risk, lack of liquidity, dilution risk, conflict of interests, and limited call rights related to acquisitions.

Mortgage backed securities also involve prepayment risk, in that faster or slower prepayments than expected on underlying mortgage loans can dramatically alter the yield-to-maturity of a mortgage-backed security and prepayment risk includes the possibility that a fund may invest the proceeds at generally lower interest rates.

Tax managed funds may not meet their objective of being tax-efficient.

Real estate investments are subject to special risks, including interest rate and property value fluctuations, as well as risks related to general and economic conditions. **High yield** fixed income securities, also known as “junk bonds”, are considered speculative, involve greater risk of default and tend to be more volatile than investment grade fixed income securities.

Credit quality is a measure of a bond issuer’s creditworthiness, or ability to repay interest and principal to bondholders in a timely manner. The credit ratings shown are based on security rating as provided by Standard & Poor’s, Moody’s and/or Fitch, as applicable. Credit ratings are issued by the rating agencies for the underlying securities in the fund and not the fund itself, and the credit quality of the securities in the fund does not represent the stability or safety of the fund. Credit ratings shown range from AAA, being the highest, to D, being the lowest based on S&P and Fitch’s classification (the equivalent of Aaa and C, respectively, by Moody’s). Ratings of BBB or higher by S&P and Fitch (Baa or higher by Moody’s) are considered to be investment grade-quality securities. If two or more of the agencies have assigned different ratings to a security, the highest rating is applied. Securities that are not rated by all three agencies are listed as “NR”.

“**Alpha tilt strategies** comprise a core holding of stocks that mimic a benchmark type index such as the S&P 500 to which additional securities are added to help tilt the fund toward potentially outperforming the market in an effort to enhance overall investment returns. Tilt strategies are subject to significant timing risk and could potentially expose investors to extended periods of underperformance.”

Custom Account Index: The Custom Account Index is an investment benchmark based on your historical target allocations and/or manager selection that you may use to evaluate the performance of your account. The Custom Account index does take into consideration certain changes that may have occurred in your portfolio since the inception of your account, i.e., asset class and/or manager changes. However, in some circumstances, it may not be an appropriate benchmark for use with your specific account composition. For detailed report of the historical composition of this blend please contact your Financial Advisor.

Peer Groups

Peer Groups are a collection of similar investment strategies that essentially group investment products that share the same investment approach. Peer Groups are used for comparison purposes to compare and illustrate a client’s investment portfolio versus its peer across various quantitative metrics like performance and risk. Peer Group comparison is conceptually another form of benchmark comparison whereby the

actual investment can be ranked versus its peer across various quantitative metrics.

All Peer Group data are provided by Investment Metrics, LLC.

The URL below provides all the definitions and methodology about the various Peer Groups

<https://www.invmetrics.com/style-peer-groups>

Peer Group Ranking Methodology

A percentile rank denotes the value of a product in which a certain percent of observations fall within a peer group. The range of percentile rankings is between 1 and 100, where 1 represents a high statistical value and 100 represents a low statistical value.

The 30th percentile, for example, is the value in which 30% of the highest observations may be found, the 65th percentile is the value in which 65% of the highest observations may be found, and so on.

Percentile rankings are calculated based on a normalized distribution ranging from 1 to 100 for all products in each peer group, where a ranking of 1 denotes a high statistical value and a ranking of 100 denotes a low statistical value. It is important to note that the same ranking methodology applies to all statistics, implying that a ranking of 1 will always mean highest value across all statistics.

For example, consider a risk/return assessment using standard deviation as a measure of risk. A percentile ranking equal to 1 for return denotes highest return, whereas a percentile ranking of 1 for standard deviation denotes highest risk among peers.

In addition, values may be used to demonstrate quartile rankings. For example, the third quartile is also known as the 75th percentile, and the median is the 50th percentile.

Alternatives

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As fees are deducted quarterly, the compounding effect will be to increase the impact of the fees by an amount directly related to the gross account performance. For example, for an account with an initial value of \$100,000 and a 2.5% annual fee, if the gross performance is 5% per year over a three year period, the compounding effect of the fees will result in a net annual compound rate of return of approximately 2.40% per year over a three year period, and the total value of the client's portfolio at the end of the three year period would be approximately \$115,762.50 without the fees and \$107,372.63 with the fees.

Please see the applicable Morgan Stanley Smith Barney LLC Form ADV Part 2A for more information including a description of the fee schedule. It is available at www.morganstanley.com/ADV <<http://www.morganstanley.com/ADV>> or from your Financial Advisor/Private Wealth Advisor.

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