COUNTY OF SAN MATEO HUMAN RESOURCES DEPARTMENT

Donna VaillancourtDirector

County Government Center 455 County Center, 5th Floor Redwood City, CA 94063 650-363-4321 T 650-363-4822 F http://hr.smcgov.org http://jobs.smcgov.org

SAN MATEO COUNTY DEFERRED COMPENSATION COMMITTEE AGENDA – NOVEMBER 19, 2015 (9:00 AM– 12:00 PM) 455 COUNTY CENTER, 4th Floor- Room 402)

DEFERRED COMPENSATION COMMITTEE	SUPPORT	
Donna Vaillancourt, Chair	Bill Tugaw	SST Benefits
Lillibeth Dames	Paul Hackleman	SST Benefits
Joe Demee	Bob Gleason	MassMutual
John Kovach	Lauren Penko	MassMutual
Glenn Kulm	Lisa Okada	County Staff
Bridget Love	Marife Ramirez	County Staff
Steve Perry	Jay Castellano	County Staff
Michael Wentworth		•
David Whisman		

CALL TO ORDER

1. Accessing SST Portal / Downloading Agenda Items - Marife

ACTION/DECISION ITEMS

- 2. Review / Approve Minutes of August 13, 2015 Regular Meeting / October 8, 2015 Special Meeting
- 3. Status Update RFP Results (SST)
 - Board Action
 - Transition Process
- 4. Quarterly Investment Review (MassMutual)
- 5. Lauren's Departure / Replacement & Process
- 6. Quarterly Plan Summary Review (MassMutual)
- 7. Education Policy Review (County / MassMutual / SST)
- 8. Payment of Excess Revenues (County)
- 9. Annual Consultant Review (County)





10. NAGDCA Report (SST / MassMutual / County)

INFORMATIONAL ITEMS

- 11. Legislative Update (SST / MassMutual)
- 12. 2016 Dates February 18, May 19, August 18, November 3
- 13. Other Issues

February 18, 2016

- Investment Policy Review
- General Fund and Fee Review
- Education Policy / Education for Committee and Participants

May 19, 2016

- Q1 investment review
- Review Q1 plan summary information
- Finalize NAGDCA conference attendees
- Mass Mutual Annual Plan Review
- 3121 Plan 401(a) / 457(b)

August 18, 2016

- Q2 investment review
- Review Q2 plan summary information
- Discussion of Survey Results

November 3, 2016

- Q3 investment review
- Education Policy
- Annual consultant performance review
- Fee Disclosure Responsibilities / Fee Equalization







455 County Center, 5th Floor Redwood City, CA 94063-1663 (650) 363-4343 / (650) 363-4321 www.smcgov.org/hr **Director**Donna Vaillancourt

Board of Supervisors
Dave Pine
Carole Groom
Don Horsley
Warren Slocum

Adrienne Tissier

SAN MATEO COUNTY SPECIAL DEFERRED COMPENSATION COMMITTEE MEETING MINUTES AUGUST 13, 2015 MINUTES

Committee Attendees: Donna Vaillancourt, Lillibeth Dames, Joe Demee,, John Kovach, Steve Perry, David Whisman, Bridget Love, Glenn Kulm

Other attendees: Jay Castellano, Lisa Okada, Marife Ramirez, Bill Tugaw and Paul Hackleman (SST Benefits), Bob Gleason, Ed Riley, Lauren Penko (MassMutual)..

Absent: Michael Wentworth

The meeting was convened at 9:05.

Description of Item for Discussion	Action Taken by Committee
Approval of May 24, and June 25 Minutes	Both the regular meeting and the special meeting minutes were approved unanimously.
Educational Session on Understanding Fixed, General Stable Value Accounts and Retiree Health Savings Account Options	Bill Tugaw provided a training session on various Fixed and Stable Value options the Committee is likely to see in RFP responses. Paul Hackleman provided an overview of the history of the County's Retiree Health Savings Account (RHSA), the various models which employers can choose and the advantages of using the DC provider to also manage the RHSA. The County's Benefits Committee also attended this educational session. The Committee discussed receiving training on the SST portal and obtaining documents without printing. That training will occur in November.
Status / Update of RFP	Bill Tugaw briefly discussed the RFD results. Paul Hackleman discussed the addition of Reporting to Primary Criteria and the significant changes that were made to the RFP both for educational services and reporting as well as Performance Standards. Paul also identify the four Committee members who will serve on the RFP sub-committee, the timeframe for the RFP events, the initial communication that is being sent to participants and the overall budget for the process.
Quarterly Investment Review	Ed Riley reviewed the Macro and County-specific fund status as addressed each of the watch-list funds. Although there was no formal recommendation, MassMutual and SST both agreed that all the current watch-list funds should remain on the watch list although there are not specific issues with the funds.
Quarterly Plan Summary Review	Bob Gleason reviewed the key plan summaries. Total plan value has increased \$20m since the second quarter of 2014 (a 6% increase). Total participants was up 386 (8.2%) since last year and total contributing employees went from 2,845 to 3,108 since last year. Both pre-tax and Roth contributions were up. Total outstanding loans rose by 43 (5.5%) and the value of those loans also increased by 10.5%
Options for Excess Reserves	Jay indicated that total money from funds not used for Financial

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	Soundings would equal roughly \$300,000 which should be returned to participants. Since that money has not all been received the Committee unanimously agreed to use reserves to help total \$300,000 which will be returned to participants within the next couple of months. The \$70,000 annually reimbursement should be a little less than expenses which will help reduce the remaining reserves.
Legislative Update	Paul reviewed the <i>News and Views</i> focusing on the Tibble vs. Edison International ruling requiring ERISA employers to continually monitor funds on an ongoing basis. Even though not directly applicable to the public sector it would be considered best practice to follow the key takeaways from the ruling. Paul also discussed recent legislative proposals, working group reports and GAO report on household savings. Paul also distributed and discussed the Defending Safety Employees Retirement Act signed into law and effective January 1, 2015. After discussion, it is unlikely that anyone will be benefited by this law in delaying retirement in 2015. Bob Gleason also discussed the MassMutual White Paper on the same subject.
Other Issues	No new issues were discussed.
Closed Session	The Committee discussed briefly the six respondents to the County's RFP and the likely improvement both in fee reductions as well as enhanced services especially in the behavior finance and reporting areas.

The Committee adjourned at 11:30.



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Director Donna Vaillancourt

Board of Supervisors Dave Pine Carole Groom Don Horsley Warren Slocum

Adrienne Tissier

SAN MATEO COUNTY SPECIAL DEFERRED COMPENSATION COMMITTEE MEETING MINUTES **OCTOBER 8, 2015 MINUTES**

Committee Attendees: Donna Vaillancourt, Lillibeth Dames, Joe Demee,, John Kovach, Steve Perry, David Whisman, Bridget Love, Glenn Kulm

Other attendees: Jay Castellano, Lisa Okada, Marife Ramirez, Bill Tugaw and Paul Hackleman (SST Benefits).

By Phone: Michael Wentworth

Description of Item for Discussion	Action Taken by Committee
Committee Report on RFP Process	Paul Hackleman began by summarizing the process the sub- Committee had followed in distributing the Request for Proposal and the receipt of six proposals from Empower, Lincoln, MassMutual, Nationwide Retirement Solutions VALIC and Voya.
Primary / Secondary Criteria Meetings	Bill Tugaw discussed the Primary Criteria Meeting that was held on August 24, 2015 and reviewed a Comparison Chart detailing the financial proposals of each of the respondents. Voya was eliminated because its cost was both higher than the current amount and nearly twice as much as each of the other respondents. Lincoln was eliminated because their education and reporting capabilities were uncompetitive with the other respondents. While VALIC was more competitive their total asset charge was higher and their general account was less than the finalists. Paul reviewed the educational and reporting capability of each of the finalists discussing the strength of their on-site, and web-based services as well as their reporting and communication capability. Based on the August 24, meeting Paul indicated that the sub-Committee unanimously selected Empower, MassMutual and Nationwide Retirement Solutions. Paul briefly mentioned that the Secondary Criteria meeting generated mostly questions but few issues for the finalists.
Finalist Meeting	Bill Tugaw then discussed the results of the finalist meeting held on October 7, 2015. He reviewed the key changes that each of the finalists made, especially the significant, additional fee reduction MassMutual offered and the various alternative general and pooled accounts they submitted. Based on the comparison, MassMutual had the lowest asset charge and overall the strongest financial proposal. Paul discussed the improvements that MassMutual and others made for the finalist meeting but concluded that MassMutual's proposal was superior to the other finalists. Based on the results, the sub-Committee unanimously recommended that MassMutual be retained as the County's Deferred Compensation Provider.
Full Committee Discussion of Recommendations	The full Committee discussed the comparison of the proposals and asked the sub-Committee questions about various

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components of the finalists' proposals. After discussion, the
Committee unanimously agreed to recommend MassMutual to the
Board of Supervisors.

San Mateo County Deferred Compensation Plan 3rd Quarter Highlights

As of September 30, 2015

Overview

\triangleright	Q3 2015:	Total plan Value:	\$340,274,383.05
\triangleright	Q2 2015:	Total plan Value:	\$352,857,047.08
	Q1 2015:	Total plan Value:	\$349,307,652.85
\triangleright	Q4 2014:	Total plan Value:	\$341,783,806.24
	Q3 2014:	Total plan Value:	\$332,765,248.95

- Q3 2015: Total participants who have an account balance: 5,202
 Q2 2015: Total participants who have an account balance: 5,099
 Q1 2015: Total participants who have an account balance: 5,008
 Q4 2014: Total participants who have an account balance: 4,843
 Q3 2014: Total participants who have an account balance: 4,784
- Q3 2015: Total employees who are eligible to participate: 5,443
 Q2 2015: Total employees who are eligible to participate: 5,331
 Q1 2015: Total employees who are eligible to participate: 5,415
 Q4 2014: Total employees who are eligible to participate: 5,407
- Q3 2014: Total employees who are eligible to participate: 5,200
- ➤ Q3 2015: Total participants who are actively contributing: 3,176 (58%)
- ➤ Q2 2015: Total participants who are actively contributing: 3,108 (58%)
- ➤ Q1 2015: Total participants who are actively contributing: 3,112 (57%)
- Q4 2014: Total participants who are actively contributing: 2,881 (53%)
- ➤ Q3 2014: Total participants who are actively contributing: 2,901 (56%)

Pre-Tax Contributions

- Q3 2015 Total participants who contribute to Pre-Tax only: 2,385
- Q2 2015 Total participants who contribute to Pre-Tax only: 2,338
- Q1 2015 Total participants who contribute to Pre-Tax only: 2,376
- Q4 2014 Total participants who contribute to Pre-Tax only: 2,285
- Q3 2014 Total participants who contribute to Pre-Tax only: 2,325
- Q3 2015 Total bi-weekly Pre-Tax contribution: \$636,613.24 (September 18, 2015)
- Q2 2015 Total bi-weekly Pre-Tax contribution: \$630,240.10 (June 26, 2015)
- Q1 2015 Total bi-weekly Pre-Tax contribution: \$698,728.22 (March 20, 2015)
- Q4 2014 Total bi-weekly Pre-Tax contribution: \$556,246.62 (December 26, 2014)
- Q3 2014 Total bi-weekly Pre-Tax contribution: \$614,073.91 (September 19, 2014)
- Q3 2015 Average bi-weekly Pre-Tax contribution amount:
 Q2 2015 Average bi-weekly Pre-Tax contribution amount:
 Q1 2015 Average bi-weekly Pre-Tax contribution amount:
 Q4 2014 Average bi-weekly Pre-Tax contribution amount:
 Q3 2014 Average bi-weekly Pre-Tax contribution amount:

Roth Contributions

Q3 2015 Total participants who contribute to Roth only: 283

Q2 2015 Total participants who contribute to Roth only: 257

Q1 2015 Total participants who contribute to Roth only: 241

Q4 2014 Total participants who contribute to Roth only: 200

Q3 2014 Total participants who contribute to Roth only: 183

Q3 2015 Total bi-weekly Roth contribution amount:
 Q2 2015 Total bi-weekly Roth contribution amount:
 Q1 2015 Total bi-weekly Roth contribution amount:
 Q4 2014 Total bi-weekly Roth contribution amount:
 Q3 2014 Total bi-weekly Roth contribution amount:
 Q3 2014 Total bi-weekly Roth contribution amount:
 Q3 2014 Total bi-weekly Roth contribution amount:

Q3 2015 Average bi-weekly Roth contribution amount: \$159.73

Q2 2015 Average bi-weekly Roth contribution amount: \$170.26

Q1 2015 Average bi-weekly Roth contribution amount: \$184.22

> Q4 2014 Average bi-weekly Roth contribution amount: \$161.00

Q3 2014 Average bi-weekly Roth contribution amount: \$129.17

Participants who contribute to both Pre-Tax and Roth

Q3 2015 Total participants who contribute to both Pre-Tax and Roth: 508

Q2 2015 Total participants who contribute to both Pre-Tax and Roth: 513

Q1 2015 Total participants who contribute to both Pre-Tax and Roth: 495

Q4 2014 Total participants who contribute to both Pre-Tax and Roth: 396

Q3 2014 Total participants who contribute to both Pre-Tax and Roth: 393

- Q3 2015 Total bi-weekly contribution amount: \$120,832.04 (September 18, 2015)
- Q2 2015 Total bi-weekly contribution amount: \$120,030,17 (June 26, 2015)
- Q1 2015 Total bi-weekly contribution amount: \$113,263.25 (March 20, 2015)
- Q4 2014 Total bi-weekly contribution amount: \$78,011.67 (December 26, 2014)
- Q3 2014 Total bi-weekly contribution amount: \$88,138.14 (September 19, 2014)
- Q3 2015 Average bi-weekly contribution amount by participant: \$237.86
- Q2 2015 Average bi-weekly contribution amount by participant: \$233.98
- Q1 2015 Average bi-weekly contribution amount by participant: \$228.81
- > Q4 2014 Average bi-weekly contribution amount by participant: \$197.00
- Q3 2014 Average bi-weekly contribution amount by participant: \$224.27

Total Contributions

- Q3 2015 Total participants who contribute: 3,176
- Q2 2015 Total participants who contribute: 3,108
- Q1 2015 Total participants who contribute: 3,112
- Q4 2014 Total participants who contribute: 2,881
- Q3 2014 Total participants who contribute: 2,901

- Q3 2014 Total bi-weekly contribution amount: \$802,647.68 (September 18, 2015)
- ➤ Q2 2014 Total bi-weekly contribution amount: \$794,028.03 (June 26, 2015)
- Q1 2015 Total bi-weekly contribution amount: \$856,387.29 (March 20, 2015)
- Q4 2014 Total bi-weekly contribution amount: \$666,458.63 (December 26, 2014)
- ➤ Q3 2014 Total bi-weekly contribution amount: \$725,849.84 (September 19, 2014)
- Q3 2015 Average bi-weekly contribution amount: \$252.72 (max is \$692.30)
- Q2 2015 Average bi-weekly contribution amount: \$255.48 (max is \$692.30)
- > Q1 2015 Average bi-weekly contribution amount: \$275.19 (max is \$692.30)
- > Q4 2014 Average bi-weekly contribution amount: \$231.33 (max is \$673.07)
- ➤ Q3 2014 Average bi-weekly contribution amount: \$250.21 (max is \$673.07)

Q3 2015 Bi-weekly contribution by age (see below)

Age	less than \$10	\$10-\$24	\$25-\$49	\$50-\$74	\$75-\$99	\$100-\$200	More than \$200.00	TOTALS
<26	3	9	6	3	7	12	10	50
26-35	25	96	126	63	77	110	150	647
36-45	14	70	141	114	83	207	315	944
46-55	10	35	101	101	67	202	407	923
56-66	1	20	53	32	41	107	322	576
Over 66	0	0	1	3	1	7	24	36
	53	230	428	316	276	645	1,228	3,176

Q2 2015 Bi-weekly contribution by age (see below)

Age	less than \$10	\$10-\$24	\$25-\$49	\$50-\$74	\$75-\$99	\$100-\$200	More than \$200.00	TOTALS
<26	4	12	7	3	8	13	7	54
26-35	22	83	127	59	69	104	140	604
36-45	10	64	134	114	81	206	315	924
46-55	8	37	96	104	69	207	401	922
56-66	1	18	51	35	38	102	323	568
Over 66	0	0 0 0		3	1	7	25	36
	45	214	415	318	266	639	1,211	3,108

Q1 2015 Bi-weekly contribution by age (see below)

				, ,				
Age	less than \$10	\$10-\$24	\$25-\$49	\$50-\$74	\$75-\$99	\$100-\$200	More than \$200.00	TOTALS
<26	3	5	7	5	7	10	7	44
26-35	18	80	135	55	65	113	147	613
36-45	9	67	135	115	71	201	310	908
46-55	7	33	95	105	68	213	403	924
56-66	2	16	53	37	37	102	335	582
Over 66	0	1	0	4	2	8	26	41
	39	202	425	321	250	647	1,228	3,112

Q4 2014 Bi-weekly contribution by age (see below)

Age	less than \$10	\$10-\$24	\$25-\$49	\$50-\$74	\$75-\$99	\$100-\$200	More than \$200.00	TOTALS
<26	4	7	7	4	6	10	8	46
26-35	21	83	103	57	48	118	125	555
36-45	13	68	132	109	63	193	265	843
46-55	7	30	95	112	55	195	370	864
56-66	5	15	48	38	35	111	287	539
Over 66	0	1	0	4	3	7	19	34
	50	204	385	324	210	634	1,074	2,881

> Q3 2014 Bi-weekly contribution by age (see below)

Age	less than \$10	\$10-\$24	\$25-\$49	\$50-\$74	\$75-\$99	\$100-\$200	More than \$200.00	TOTALS
<26	3	4	6	2	4 10		8	37
26-35	20	78	110	57	45	112	132	554
36-45	13	66	125	107	64	194	281	850
46-55	7	33	98	112	60	191	389	890
56-66	5	15	46	30	27	98	311	532
Over 66	0	0	0	5	2	7	24	38
	48	196	385	313	202	612	1,145	2,901

Number of participants and percentage of all participants actively deferring who are deferring at or above \$692.30 (biweekly rate to max out in 2015)

- ➤ Q3 2015 352 out of 3,470 or 10.14% are on track to reach the maximum by year-end (based on employees with contributions in 2015)
- ➤ Q2 2015 359 out of 3,329 or 10.78% are on track to reach the maximum by year-end (based on employees with contributions in 2015)
- > Q1 2015 352 out of 3,195 or 11%
- Q4 2014 337 out of 3,224 or 10.45% deferred the maximum (\$17,500 and over, including those on 50+ and pre-retirement catch)
- ➤ Q3 2014 330 out of 2,999 or 11% are on track to reach the maximum by year-end (as of the 9/19/14 payroll total contributions are at least \$12,788.33)

*Loan Program

- Q3 2015 Number of outstanding loans: 820
- Q2 2015 Number of outstanding loans: 813
- Q1 2015 Number of outstanding loans: 801
- Q4 2014 Number of outstanding loans: 805
- Q3 2014 Number of outstanding loans: 784
- Q3 2015 Amount of outstanding loans: \$7,124,744.95
- Q2 2015 Amount of outstanding loans: \$7,049,924.09
- Q1 2015 Amount of outstanding loans: \$6,894,996.79
- Q4 2014 Amount of outstanding loans: \$6,703,273.84
- Q3 2014 Amount of outstanding loans: \$6,574,811.30

- Q3 2015 Average loan amount: \$8,688.71
- Q2 2015 Average loan amount: \$8,671.49
- Q1 2015 Average loan amount: \$8,607.99
- > Q4 2014 Average loan amount: \$8,327.05
- Q3 2014 Average loan amount: \$8,386.24

QDRO Reviewed and Processed

> YTD 2015: 1 QDRO processed in 2Q 2015 for \$137,479.39

Hardship Withdrawals

- ➤ Q3 2015: 8 requests (5 approved; 3 denied) 1 participant was denied twice but subsequently approved when resubmitted during the same quarter, no carryover from previous quarter.
- Q2 2015: 3 requests (3 approved; 0 denied) no carryover from previous quarter.
- Q1 2015: 4 requests (2 approved; 2 denied) 1 participant was denied and subsequently granted approval when resubmitted during the same quarter, no carryover from previous quarter.
- ➤ Q4 2014: 8 requests (7 approved; 1 denied) 1 carryover from previous quarter and 1 denied and subsequently granted approval when resubmitted during the same quarter.
- ➤ Q3 2014: 5 requests (2 approved; 3 denied) no carryover from previous quarter.

Employee Meetings

- Q3 2015: 54 individual in person participant meetings; 12 educational seminars with approx. 107 total participants, approx. 72 participant service calls
- Q2 2015: 121 individual in person participant meetings; 19 educational seminars with approx. 143 total participants, approx. 95 participant service calls
- Q1 2015: 112 individual in person participant meetings; 10 educational seminars with approx. 84 total participants, approx. 105 participant service calls
- Q4 2014: 79 individual in person participant meetings; 13 educational seminars with approx.
 79 total participants, approx. 185 participant service calls
- Q3 2014: 54 individual in person participant meetings; 7 educational seminars with approx. 72 total participants, approx. 122 participant service calls

Morningstar

- Q3 2015: 81 unique users
- > Q2 2015: 71 unique users
- > Q1 2015: 57 unique users
- > Q4 2014: 54 unique users
- Q3 2014: 49 unique users

Financial Planning Services

- Q3 2015: 2 inquiry; 1 meeting; 0 client
- > Q2 2015: 7 inquiry; 5 meeting; 2 client
- Q1 2015: 3 inquiry; 3 meeting; 1 client
- Q4 2014: 3 inquiry; 2 meeting; 1 client
- > Q3 2014: 2 inquiry; 3 meeting (1 meeting from previous quarter inquiry); 0 client

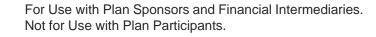
^{*} Loan Program statistics reported above no longer includes deemed distribution. Loan balance on Quarterly Plan Summary does include deemed distribution.

San Mateo County 3rd Quarter 2015 Hardship Report

Date Into PI	IGO Date	Group Number	Participant Name	Hardship Reason	Amount Requested		Committee Recommend	Amount Approved	Plan Manager	Decision Date	Notes
8/20	8/20	150018	Participant A	Imminent Eviction	\$4,300.00	\$6,956.51	Approved	\$4,300.00	Silvio DiGrande	8/20	
7/6	7/6	150018	Participant B	Imminent Foreclosure	\$736.00	\$915.17	Approved	\$736.00	Silvio DiGrande	7/6	
8/21	8/21	150018	Paricipant C	Sudden and Unexpected	\$460.65	\$460.65	Approved	\$460.65	Silvio DiGrande	8/21	
9/22	9/22	150018	Participant D	Imminent Eviction	\$13,000.00	\$37,405.52	Approved	\$13,000.00	Silvio DiGrande	9/22	
7/22	7/22	150018	Participant E	Imminent Foreclosure	\$7,736.83	\$9,346.65	Approved	\$5,369.69	Silvio DiGrande	7/22	
7/8	7/13	150018	Participant F	Imminent Foreclosure	\$0.00	\$4,250.55	Denied	\$0.00	Silvio DiGrande	7/14	Requested supporting documentation was not provided.
7/22	7/27	150018	Participant A	Imminent Eviction	\$8,000.00	\$6,870.05	Denied	\$0.00	Silvio DiGrande	7/27	Requested supporting documentation was not provided.
7/2	7/6	150018	Participant A	Imminent Eviction	\$8,000.00	\$6,904.80	Denied	\$0.00	Silvio DiGrande	7/6	Requested supporting documentation was not provided.

Investment Performance Review prepared for:

County of San Mateo as of September 30, 2015





MassMutual MassMutual Funds



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Section II Morningstar Category Analysis

Section III Investment Performance

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Market Indicators



Global Economic Snapshot

Percent (%)	US	EU	Japan	China
GDP Growth	2.7*	1.5*	0.8*	7.0*
СРІ	0.2**	-0.1	-0.1	2.0**
Unemployment	5.1	11.0**	3.4**	4.0*
Central Bank Rate	0.25	0.05	0.08	4.6
10 Year Treasury	2.04	0.59	0.36	3.27

Source: Bloomberg

*U.S Morningstar Category Average

Q3 2015

Large Cap		Mid Cap	Small Cap
Value	-8.42%	Value -9.19%	Value -10.32%
Growth	-6.69%	Growth -9.49%	Growth -11.98%

1-Year

Large Cap	Mid Cap	Small Cap
Value -4.97%	Value -3.16%	Value -2.99%
Growth 1.36%	Growth 0.83%	Growth 2.39%

Q3 2015 – Major Indices Performance

	Q3 2015	YTD	1-Year	3-Year
S&P 500	-6.44%	-5.29%	-0.61%	12.40%
NASDAQ	-7.35%	-2.45%	2.82%	14.03%
Dow Jones	-6.98%	-6.95%	-2.11%	9.26%
Barclays Aggregate	1.23%	1.13%	2.94%	1.71%
MSCI EAFE	-10.23%	-5.28%	-8.66%	5.63%

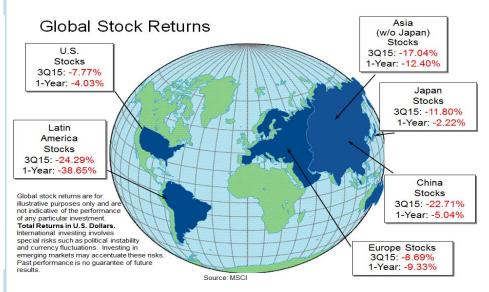
The S&P 500 Index is a capitalization-weighted index of 500 widely traded stocks. Created by Standard & Poor's, it is considered to represent the performance of the stock market in general. It is not an investment product available for purchase.

The NASDAQ Composite is a market-capitalization price only index that reflects the aggregate performance of domestic common stocks traded on the regular NASDAQ market, as well as national market system traded foreign common stocks and ADRs. It is not an investment product available for purchase.

The Dow Jones Industrial Average (DJIA) is a price-weighted average of 30 actively traded Blue Chip stocks, primarily industrials but including service oriented firms. Prepared and published by Dow Jones & Co., it is the oldest and most widely quoted of all the market indicators. The components, which change from time to time, represent between 15% and 20% of the market value of NYSE stock. It is not an investment product available for purchase. Past performance is no guarantee of future results. Dividends are reinvested.

The Barclays Aggregate Bond Index (formerly Lehman Brothers) is a measure of the U.S. bond market. It is not possible to invest directly in an index.

The Morgan Stanley Capital International (MSCI) EAFE (Europe, Australasia, Far East) Index is a commonly used measure of the international stock market. It is not possible to invest directly in an index.



^{*} As of 6/30/15

^{**} As of 8/31/15

Market Indicators



Market Indicators - as of 9/30/2015

Equity Market Returns

1 Year Returns

Q3 2015 Returns				
	Value	Blend	Growth	
Large Cap	-8.39	-6.83	-5.29	
Mid Cap	-8.04	-8.01	-7.99	
Small Cap	-10.73	-11.92	-13.06	

	Value	Blend	Growth
Large Cap	-4.42	-0.61	3.17
Mid Cap	-2.07	-0.25	1.45
Small Cap	-1.60	1.25	4.04

Foreign Stock - 3 Year				
	Value	Blend	Growth	
Large Cap	4.26	4.62	5.40	
Small/Mid	7.36	7.91	8.27	
·				

	Annua		

	Value	Blend	Growth
Large Cap	11.59	12.66	13.61
Mid Cap	13.69	13.91	13.98
Small Cap	9.18	11.02	12.85

	Value	Blend	Growth
Large Cap	12.29	13.42	14.47
Mid Cap	13.15	13.40	13.58

11.73

13.26

5 Year Annualized Returns

	Value	Blend	Growth
Large Cap	2.88	3.30	4.39
Small/Mid	4.82	6.71	7.27
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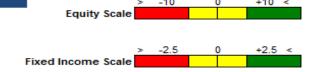
Foreign Stock - 5 Year

Fixed Income Returns

US OE Ultrashort Bond
US OE Short-Term Bond
US OE Short Government
US OE Intermediate Government
US OE Long Government
US OE Intermediate-Term Bond
US OE High Yield Bond

Total Return Q3 2015	Total Return 1 Year	Total Return 3 Year	Total Return 5 Year
-0.13	0.07	0.40	0.75
-0.14	0.53	0.76	1.49
0.26	1.03	0.25	0.74
0.94	2.41	0.90	2.24
4.27	7.02	1.67	5.17
0.32	1.46	1.58	3.15
-4.46	-3.61	2.89	5.21
-1.25	-4.50	-0.93	1.22

Small Cap



Source: Morningstar Direct

As of September 30, 2015. Past performance is no guarantee of future results. Mutual fund returns are for illustrative purposes only and are not indicative of any particular investment. Category Average Total Returns assume reinvestment of all dividends and capital gains. Historically, small cap stocks have been more volatile than the stocks of larger, more established companies.

It's not possible to invest directly in an index.

US OE World Bond

Market Indicators



Market Indicators - as of 9/30/2015

Total Return Syear 10 year 10 year
Name
Russell 1000 Value TR USD Large Value -8.39 -4.42 11.59 12.29 5.71 5.73 Russell Mid Cap Value TR USD Mid Value -8.04 -2.07 13.69 13.15 7.42 9.55 Russell 2000 Value TR USD Small Value -10.73 -1.60 9.18 10.17 5.35 8.53 Russell 1000 TR USD Large Blend -6.83 -0.61 12.66 13.42 6.95 4.14 Russell Mid Cap TR USD Mid Blend -8.01 -0.25 13.91 13.40 7.87 7.63 Russell 2000 TR USD Small Blend -11.92 1.25 11.02 11.73 6.55 6.51 Russell Mid Cap Growth TR USD Large Growth -5.29 3.17 13.61 14.47 8.09 2.20 Russell Mid Cap Growth TR USD Mid Growth -7.99 1.45 13.98 13.58 8.09 3.72 Russell 2000 Growth TR USD Small Growth -13.06 4.04 12.85 13.26 7.67 4.15
Russell Mid Cap Value TR USD
Russell 2000 Value TR USD
Russell 1000 TR USD
Russell Mid Cap TR USD
Russell 2000 TR USD
Russell 1000 Growth TR USD Large Growth -5.29 3.17 13.61 14.47 8.09 2.20 Russell Mid Cap Growth TR USD Mid Growth -7.99 1.45 13.98 13.58 8.09 3.72 Russell 2000 Growth TR USD Small Growth -13.06 4.04 12.85 13.26 7.67 4.15 MSCI EAFE NR USD Foreign Stock -10.23 -8.66 5.63 3.98 2.97 3.03 Barclay's Cap US Agg Bond TR USD US Bonds 1.23 2.94 1.71 3.10 4.64 5.29 DJ Industrial Average TR USD US Stocks -6.98 -2.11 9.26 11.38 7.17 5.39 NASDAQ Composite PR USD US Stocks -7.35 2.82 14.03 14.30 7.94 1.54 S&P 500 TR US Stocks -6.44 -0.61 12.40 13.34 6.80 3.96
Russell Mid Cap Growth TR USD Mid Growth -7.99 1.45 13.98 13.58 8.09 3.72 Russell 2000 Growth TR USD Small Growth -13.06 4.04 12.85 13.26 7.67 4.15 MSCI EAFE NR USD Foreign Stock -10.23 -8.66 5.63 3.98 2.97 3.03 Barclay's Cap US Agg Bond TR USD US Bonds 1.23 2.94 1.71 3.10 4.64 5.29 DJ Industrial Average TR USD US Stocks -6.98 -2.11 9.26 11.38 7.17 5.39 NASDAQ Composite PR USD US Stocks -7.35 2.82 14.03 14.30 7.94 1.54 S&P 500 TR US Stocks -6.44 -0.61 12.40 13.34 6.80 3.96
Russell 2000 Growth TR USD Small Growth -13.06 4.04 12.85 13.26 7.67 4.15 MSCI EAFE NR USD Foreign Stock -10.23 -8.66 5.63 3.98 2.97 3.03 Barclay's Cap US Agg Bond TR USD US Bonds 1.23 2.94 1.71 3.10 4.64 5.29 DJ Industrial Average TR USD US Stocks -6.98 -2.11 9.26 11.38 7.17 5.39 NASDAQ Composite PR USD US Stocks -7.35 2.82 14.03 14.30 7.94 1.54 S&P 500 TR US Stocks -6.44 -0.61 12.40 13.34 6.80 3.96
MSCI EAFE NR USD Foreign Stock -10.23 -8.66 5.63 3.98 2.97 3.03 Barclay's Cap US Agg Bond TR USD US Bonds 1.23 2.94 1.71 3.10 4.64 5.29 DJ Industrial Average TR USD US Stocks -6.98 -2.11 9.26 11.38 7.17 5.39 NASDAQ Composite PR USD US Stocks -7.35 2.82 14.03 14.30 7.94 1.54 S&P 500 TR US Stocks -6.44 -0.61 12.40 13.34 6.80 3.96
Barclay's Cap US Agg Bond TR USD US Bonds 1.23 2.94 1.71 3.10 4.64 5.29 DJ Industrial Average TR USD US Stocks -6.98 -2.11 9.26 11.38 7.17 5.39 NASDAQ Composite PR USD US Stocks -7.35 2.82 14.03 14.30 7.94 1.54 S&P 500 TR US Stocks -6.44 -0.61 12.40 13.34 6.80 3.96
DJ Industrial Average TR USD US Stocks -6.98 -2.11 9.26 11.38 7.17 5.39 NASDAQ Composite PR USD S&P 500 TR US Stocks -7.35 2.82 14.03 14.30 7.94 1.54 US Stocks -6.44 -0.61 12.40 13.34 6.80 3.96
NASDAQ Composite PR USD US Stocks -7.35 2.82 14.03 14.30 7.94 1.54 S&P 500 TR US Stocks -6.44 -0.61 12.40 13.34 6.80 3.96
S&P 500 TR US Stocks -6.44 -0.61 12.40 13.34 6.80 3.96
Manningston Family Start Catanan Avenue
Manningston Familian Ctarle Catagone, Avenues
Morningstar Foreign Stock Category Averages
US OE Foreign Large Value -10.68 -10.40 4.26 2.88 1.96 3.48
US OE Foreign Large Blend -10.34 -8.06 4.62 3.30 2.91 3.04
US OE Foreign Large Growth -9.36 -4.95 5.40 4.39 3.90 3.22
US OE Foreign Small/Mid Value -8.97 -5.60 7.36 4.82 3.92 4.63
US OE Foreign Small/Mid Blend -8.42 -3.71 7.91 6.71 4.89 5.25
US OE Foreign Small/Mid Growth -7.14 -1.20 8.27 7.27 5.98 5.38
Morningstar Fixed Income Category Averages
US OE Ultrashort Bond -0.13 0.07 0.40 0.75 1.79 2.29
US OE Short-Term Bond -0.14 0.53 0.76 1.49 2.92 3.49
US OE Short Government 0.26 1.03 0.25 0.74 2.53 3.08
US OE Intermediate Government 0.94 2.41 0.90 2.24 3.91 4.37
US OE Long Government 4.27 7.02 1.67 5.17 5.56 7.41
US OE Intermediate-Term Bond 0.32 1.46 1.58 3.15 4.29 4.96
US OE High Yield Bond -4.46 -3.61 2.89 5.21 5.87 6.03
US OE World Bond -1.25 -4.50 -0.93 1.22 3.83 5.37

Source: Morningstar Direct

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Current Investments

Domestic Equity	Value	Blend	Growth
Large	Hartford Dividend and Growth HLS IA American Funds American Mutual R4	SSgA S&P 500 Index Sec Lend Inv Opt Parnassus Core Equity Investor Vanguard Total Stock Mkt Idx Inv Hartford Capital Appreciation HLS IA American Funds Fundamental Invs R5	Franklin Growth A American Funds Growth Fund of Amer R5
Medium	Artisan Mid Cap Value Investor	SSgA S&P MidCap Index Non-Lend Series Inv Opt	Prudential Jennison Mid Cap Growth A
Small		SSgA Russell Small Cap Index Sec Lend Inv Opt Columbia Small Cap Core A	Baron Small Cap Retail Royce Pennsylvania Mutual Svc Invesco Small Cap Discovery Y
	Global / International	Target Risk	Target Date
	American Funds Europacific Growth R5 American Funds Capital World Gr&Inc R5 Oppenheimer Developing Markets Y	American Century Strat Allc: Cnsrv Inv Oakmark Equity & Income I American Century Strat Allc: Mod Inv American Century Strat Allc: Agrsv Inv	Vanguard Target Retirement Income Inv Vanguard Target Retirement 2015 Inv Vanguard Target Retirement 2025 Inv Vanguard Target Retirement 2035 Inv Vanguard Target Retirement 2045 Inv
	Specialty	Fixed Income	Stable Value/Money Market
	MFS® Utilities A Hartford Healthcare HLS IA Invesco Real Estate R5	PIMCO Real Return A PIMCO Total Return Admin Loomis Sayles Bond Instl Oppenheimer International Bond Y	General Account Bank of the West Insured Deposit Option

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Investment Performance



Investment Return and Risk Report									As of 9/30/2015											
		Shor	t Term P	erformanc	e	Long-Term Performance							5 Yr F	Risk/Retur	n Data	Prospectus				
																a:	Gross	Net		
Fund Name	Inception Date	Otr	%Rank	1 Yr	%Rank	3 Yr	%Rank	5 Yr	%Rank	10 Yr	%Rank	Beta	Alpha	R-Sa	St Dev	Sharpe	Expense Ratio	Expense Ratio	Mstar Rating	
1 und Ivanic	inception Date	Qu	/01Xdiik	1 11	/0 IXank	511	/0 Kank	3 11	/0 Kank	10 11	/0 IXank	Deta	Атрпа	K-5q	StDev	Ratio	Ratio	Ratio	Rating	
US OE Large Value																				
American Funds American Mutual R4	6/27/2002	-6.90	22	-2.71	21	10.11	58	10.90	49	6.46	19	0.75	1.52	92.75	9.47	1.14	0.66	0.66	4	
Hartford Dividend and Growth HLS IA	3/9/1994	-7.06	24	-3.04	25	11.63	25	11.84	27	7.20	6	0.94	0.27	97.91	11.52	1.03	0.67	0.67	5	
Benchmark 1: Russell 1000 Value TR USD	12/29/1978	-8.39		-4.42		11.59		12.29		5.71					12.13	1.01				
Benchmark 2: US OE Large Value	5/1/1931	-8.42		-4.97		10.27		10.79		5.26		0.98	-1.26	99.12	11.92	0.90	1.49	1.13	3	
US OE Large Blend																				
SSgA S&P 500 Index Sec Lend Inv OptA		-6.45		-0.66		12.38		13.32		6.83										
American Funds Fundamental Invs R5	5/15/2002	-7.03	43	-1.30	40	12.21	32	11.95	50	7.49	8	1.02	-1.59	97.22	12.18	0.99	0.35	0.35	4	
Hartford Capital Appreciation HLS IA	4/2/1984	-9.15	83	-2.92	64	13.79	10	10.83	70	7.02	15	1.19	-4.48	94.01	14.35	0.79	0.66	0.66	3	
Parnassus Core Equity Investor	8/31/1992	-3.96	5	0.88	9	13.79	10	13.36	14	9.55	1	0.83	2.03	89.84	10.28	1.27	0.87	0.87	5	
Vanguard Total Stock Mkt Idx Inv	4/27/1992	-7.29	50	-0.67	24	12.34	28	13.15	21	6.97	17	1.02	-0.45	99.79	11.95	1.09	0.17	0.17	4	
Benchmark 1: Russell 1000 TR USD	12/29/1978	-6.83	-	-0.61 -2.48		12.66		13.42 11.68		6.95		1.02	2.10	00.75	11.72	1.13	1.40	1.09	3	
Benchmark 2: US OE Large Blend	7/1/1924	-7.53		-2.48		11.28		11.08		5.97		1.02	-2.18	99.75	11.93	0.95	1.49	1.09	3	
US OE Large Growth	-/														10.11					
American Funds Growth Fund of Amer R5	5/15/2002	-6.62	51	0.73	60	13.84	25	12.90	45	7.22	42	1.01	-1.50	95.15	12.18	1.06	0.38	0.38	4	
Franklin Growth A	4/1/1948	-6.01	37	2.94	36	13.41	33	12.44	57	8.09	21	0.93	-0.86	96.21	11.12	1.11	0.90	0.90	3	
Benchmark 1: Russell 1000 Growth TR USD	12/29/1978	-5.29	_	3.17		13.61		14.47		8.09		1.07	2 71	00.14	11.76	1.21	1 20	1 20	3	
Benchmark 2: US OE Large Growth	12/1/1925	-6.69		1.36		12.52		12.64		6.96		1.07	-2.71	98.14	12.66	0.98	1.39	1.20	3	
US OE Mid-Cap Value																				
Artisan Mid Cap Value Investor	3/28/2001	-10.04	65	-8.45	89	8.91	88	9.95	79	7.02	33	0.93	-1.98	90.77	12.36	0.83	1.19	1.19	3	
Benchmark 1: Russell Mid Cap Value TR USD	12/31/1985	-8.04		-2.07		13.69		13.15		7.42		1.00	1.70	07.00	12.70	1.04	1.70	121	-	
Benchmark 2: US OE Mid-Cap Value	7/1/1949	-9.19		-3.16		12.04		11.31		6.47		1.02	-1.79	97.89	13.10	0.89	1.73	1.24	3	
US OE Mid-Cap Blend																				
SSgA S&P MidCap Index Non-Lend Series Inv OptA	12 (22 (12 2	-8.51		1.32		13.05		12.85		8.02					10.00					
Benchmark 1: Russell Mid Cap TR USD	12/29/1978	-8.01		-0.25		13.91		13.40		7.87		1.01	2.42	00.70	13.06	1.03	4.47	1.20	2	
Benchmark 2: US OE Mid-Cap Blend	7/1/1938	-9.14		-2.41		11.74		11.19		6.39		1.04	-2.43	98.78	13.65	0.84	1.47	1.20	3	
US OE Mid-Cap Growth																				
Prudential Jennison Mid Cap Growth A	12/31/1996	-9.63	52	0.91	50	9.74	83	11.62	53	8.47	23	0.90	-0.55	96.87	12.56	0.94	1.05	1.05	3	
Benchmark 1: Russell Mid Cap Growth TR USD	12/31/1985	-7.99		1.45		13.98		13.58		8.09		1.00	2.00	00.44	13.73	1.00	1.00	1.20	2	
Benchmark 2: US OE Mid-Cap Growth	9/1/1935	-9.49	\perp	0.83		12.02		11.71		7.15		1.00	-2.00	98.44	13.89	0.84	1.90	1.30	3	
US OE Small Blend																				
SSgA Russell Small Cap Index Sec Lend Inv OptA		-11.85		1.45		11.19		11.91		6.49										
Columbia Small Cap Core A	11/2/1998	-11.82	68	-4.92	82	8.18	83	8.91	85	5.91	58	0.95	-2.04	95.14	15.59	0.62	1.38	1.38	2	
Benchmark 1: Russell 2000 TR USD	12/29/1978	-11.92	_	1.25		11.02		11.73		6.55		0.05	0.24	00.50	15.96	0.77	1.00	4.25		
Benchmark 2: US OE Small Blend	6/1/1956	-10.90		-1.11		10.38		10.94		6.11		0.95	-0.21	98.69	15.32	0.75	1.82	1.25	3	
US OE Small Growth	- /																			
Baron Small Cap Retail	9/30/1997	-12.56	61	-4.32	93	9.71	75	11.01	75	6.71	62	0.85	-0.20	91.88	14.94	0.77	1.30	1.30	3	
Invesco Small Cap Discovery Y	2/2/2006	-14.31	81	3.01	46	11.16	50	11.77	58	7.32	46	0.91	-0.29	95.25	15.81	0.78	1.07	1.07	3	
Royce Pennsylvania Mutual Svc	11/8/2005	-12.98	69	-8.61	97	6.60	95	7.77	95	5.37	88	0.88	-3.52	91.52	15.49	0.56	1.24	1.24	2	
Benchmark 1: Russell 2000 Growth TR USD Benchmark 2: US OE Small Growth	12/29/1978	-13.06 -11.98	\vdash	4.04 2.39		12.85 11.17		13.26 12.11		7.67 7.02		0.94	-0.66	98.81	16.92	0.82	1.07	1 27	3	
	6/1/1946	-11.98		2.39		11.17		12.11		7.02		0.94	-0.00	98.81	15.94	0.77	1.87	1.37	3	
US OE Real Estate	. /0.0 /		5			2 1 1								20.11		0.77				
Invesco Real Estate R5	4/30/2004	2.14	51	8.44	65	8.85	50	11.08	58	7.17	24	0.93	-0.10	99.23	14.87	0.78	0.87	0.87	4	
Benchmark 1: S&P United States REIT TR USD	6/30/1989	2.08		9.61		9.46		11.94		6.75		0.03	0.11	00.50	15.86	0.79	1.50	1.20	2	
Benchmark 2: US OE Real Estate	3/1/1985	1.37		8.58		8.60		11.19		6.18		0.93	-0.14	99.58	14.75	0.78	1.59	1.30	3	
US OE Health																				
Hartford Healthcare HLS IA	5/1/2000	-11.92	30	13.55	20	24.66	29	21.98	31	11.86	37	1.13	0.09	90.45	13.53	1.54	0.88	0.88	4	
Benchmark 1: S&P 1500 Health Care TR	12/30/1994	-10.61		6.22		20.40		19.32		10.15		4 1 -	0.55	07.01	11.37	1.62	4 12	4.00		
Benchmark 2: US OE Health	7/1/1981	-13.65		9.00		22.65		20.66		11.37		1.15	-0.85	87.94	13.97	1.45	1.42	1.39	3	
US OE Utilities																				
MFS Utilities A	2/14/1992	-11.83	89	-12.23	86	6.24	71	9.03	67	8.24	6	0.55	2.97	32.41	11.59	0.80	0.97	0.97	3	
Benchmark 1: S&P 1500 Utilities TR	12/30/1994	5.20		6.47		10.30		11.31		7.04					11.91	0.96				
Benchmark 2: US OE Utilities	10/1/1948	-3.58		-4.73	_	7.35		8.91		6.05		0.74	0.75	76.06	10.08	0.91	1.27	1.25	3	

Performance data shown represents past performance and is no guarantee of future results. Investment return and principal values fluctuate, and shares when redeemed may be more or less than their original cost. Current performance may be higher or lower than quoted. For most recent month - end performance, visit www.massmutual.com/serve

Investment Return and Risk Report													As of 9/30/2015												
		Shor	rt Term P	erformance	e		Lo	ong-Term	Performar	nce			5 Yr .	Risk/Retur	rn Data		Pros								
																	Gross								
					W.D. 1	0.77			0/17	10.77				20	0.0	Sharpe	Expense	Expense	Mstar						
Fund Name	Inception Date	Qtr	%Rank	1 Yr	%Rank	3 Yr	%Rank	5 Yr	%Rank	10 Yr	%Rank	Beta	Alpha	R-Sq	St Dev	Ratio	Ratio	Ratio	Rating						
US OE Foreign Large Growth	E /4E /2002	0.02	50	4.07	47	6.20	22	4.50	45	5.22	1.0	0.03	1.04	06.45	14.02	0.20	0.53	0.52	1						
American Funds Europacific Growth R5	5/15/2002	-9.82	58	-4.97	47	6.30	33	4.50	45	5.32	14	0.93	1.84	96.45	14.03	0.38	0.53	0.53	4						
Benchmark 1: MSCI ACWI Ex USA Growth NR USD	12/29/2000	-10.77	_	-8.12		3.63		2.74		3.64	\vdash	0.07	1.25	07.72	14.76	0.25	1.00	1.25	2						
Benchmark 2: US OE Foreign Large Growth	5/1/1981	-9.36		-4.95		5.40		4.39		3.90		0.97	1.35	97.72	14.43	0.34	1.68	1.35	3						
US OE Diversified Emerging Mkts																									
Oppenheimer Developing Markets Y	9/7/2005	-17.28	74	-23.19	81	-3.69	41	-1.47	21	6.74	3	0.90	1.77	90.82	16.78	-0.01	1.06	1.05	4						
Benchmark 1: MSCI EM NR USD	12/31/1998	-17.90		-19.28		-5.27		-3.58		4.27					17.78	-0.12									
Benchmark 2: US OE Diversified Emerging Mkts	9/1/1989	-15.87		-18.77		-4.12		-3.43		3.75		0.92	-0.25	97.16	16.51	-0.13	2.68	1.55	3						
US OE World Stock																									
American Funds Capital World Gr&Inc R5	5/15/2002	-8.55	41	-5.74	62	8.63	38	7.49	53	6.21	21	0.94	1.01	96.19	12.52	0.64	0.49	0.49	4						
Benchmark 1: MSCI ACWI NR USD	12/31/1998	-9.45		-6.66		6.95		6.82		4.58					13.08	0.57									
Benchmark 2: US OE World Stock	11/1/1954	-8.66		-5.02		7.95		7.37		4.85		0.96	0.31	98.51	12.64	0.59	2.46	1.36	3						
US OE Retirement Income																									
Vanguard Target Retirement Income Inv	10/27/2003	-2.11	11	0.18	5	3.56	22	5.17	10	4.96	11	0.80	1.07	93.51	4.08	1.24	0.16	0.16	4						
Benchmark 1: Morningstar Lifetime Mod Incm TR USD	12/31/1998	-3.02		-1.41		2.87		5.04		5.02					4.91	1.02									
Benchmark 2: US OE Retirement Income	3/1/1994	-3.00		-1.35		2.44		3.88		3.71		0.98	-0.66	96.03	4.90	0.86	2.01	0.89	3						
US OE Target Date 2011-2015																									
Vanguard Target Retirement 2015 Inv	10/27/2003	-3.87	38	-0.66	22	5.88	10	7.04	7	5.30	4	1.01	0.41	97.55	6.83	1.02	0.16	0.16	4						
Benchmark 1: Morningstar Lifetime Mod 2015 TR USD	12/31/1998	-3.86	36	-1.85	22	4.45	10	6.53		5.74	4	1.01	0.41	37.33	6.66	0.98	0.10	0.10							
Benchmark 1: Wormingstar Erjetime Wood 2015 FK 03D Benchmark 2: US OE Target Date 2011-2015	9/1/1990	-4.11	-	-1.84		4.43		5.52		3.51		0.99	-1.10	97.84	6.67	0.80	3.36	0.89	3						
	3/1/1330	-4.11		-1.04		4.27		3.32		3.31		0.33	-1.10	37.04	0.07	0.80	3.30	0.03	3						
US OE Target Date 2021-2025	10/07/2000			1.00		- 0.1	- 10	2.10	- 12			2.22	0.15	22.77	2.22		2.17	0.15							
Vanguard Target Retirement 2025 Inv	10/27/2003	-5.53	41	-1.60	29	7.31	13	8.16	12	5.41	9	0.98	0.47	98.55	8.85	0.93	0.17	0.17	4						
Benchmark 1: Morningstar Lifetime Mod 2025 TR USD	12/31/1998	-5.41		-2.75		6.17		7.80		5.97	\vdash	0.00	0.05	00.00	8.96	0.88	2.10	0.01	-						
Benchmark 2: US OE Target Date 2021-2025	10/1/2003	-5.73		-2.55		5.70		7.01		4.23		0.98	-0.85	98.83	8.84	0.78	2.18	0.91	3						
US OE Target Date 2031-2035																									
Vanguard Target Retirement 2035 Inv	10/27/2003	-7.12	44	-2.75	40	8.41	17	9.06	13	5.56	15	0.97	0.73	99.20	10.77	0.86	0.18	0.18	4						
Benchmark 1: Morningstar Lifetime Mod 2035 TR USD	12/31/1998	-7.62		-4.26		7.44		8.54		6.07					11.09	0.79									
Benchmark 2: US OE Target Date 2031-2035	10/1/2003	-7.34		-3.39		6.84		7.87		4.40		0.95	-0.46	99.17	10.60	0.74	2.39	0.94	3						
US OE Target Date 2041-2045																									
Vanguard Target Retirement 2045 Inv	10/27/2003	-7.95	48	-3.49	48	8.59	20	9.19	15	5.73	20	0.95	1.12	99.11	11.22	0.84	0.18	0.18	4						
Benchmark 1: Morningstar Lifetime Mod 2045 TR USD	12/31/1998	-8.65		-5.22		7.38		8.35		6.04					11.71	0.74									
Benchmark 2: US OE Target Date 2041-2045	10/1/2003	-8.05		-3.75		7.32		8.23		4.59		0.97	-0.10	99.09	11.43	0.73	2.91	0.96	3						
US OE Conservative Allocation																									
American Century Strat Allc: Cnsrv Inv	2/15/1996	-3.41	42	-0.60	26	4.44	28	5.94	23	4.90	22	1.09	0.21	95.72	5.81	1.01	1.00	1.00	4						
Benchmark 1: Morningstar Mod Con Tgt Risk TR USD	12/31/1998	-3.00		-1.43		3.76		5.27		5.09					5.24	1.00									
Benchmark 2: US OE Conservative Allocation	9/1/1948	-3.83		-2.55		3.25		4.85		4.14		0.99	-0.84	97.64	5.26	0.83	1.61	1.21	3						
US OE Moderate Allocation																									
American Century Strat Allo: Mod Inv	2/15/1996	-5.85	64	-1.62	43	6.12	58	7.37	50	5.60	29	0.81	0.95	97.74	8.33	0.89	1.06	1.06	4						
Oakmark Equity & Income I	11/1/1995	-6.95	88	-2.53	60	8.17	18	8.04	33	6.50	8	0.85	1.32	90.71	9.08	0.89	0.74	0.74	4						
Benchmark 1: Morningstar Mod Agg Tqt Risk TR USD	12/31/1998	-7.29	30	-4.27	55	6.72		7.77	33	5.79		5.55	2.52	33.71	10.14	0.78	3.74	3.74	-						
Benchmark 2: US OE Moderate Allocation	7/1/1929	-5.60		-2.51		6.41		7.33		5.08		0.77	0.73	98.51	7.88	0.87	1.61	1.24	3						
US OE Aggressive Allocation	,,1,1323	5.00		2.01		3.12		7.00		5.00		0	0.75	30.52	7.00	0.07	1.01								
50	2/15/1006	7.20	44	1.64	1.4	7.47	48	0.20	32	F 07	11	0.05	0.03	07.27	10.27	0.02	1.14	1.00	4						
American Century Strat Allc: Agrsv Inv Benchmark 1: Morningstar Agg Tgt Risk TR USD	2/15/1996 12/31/1998	-7.39 -8.85	44	-1.64 -5.28	14	7.47 7.81	48	8.38 <i>8.66</i>	32	5.97 5.82	11	0.85	0.93	97.37	10.37 12.09	0.82 0.74	1.14	1.09	4						
Benchmark 2: US OE Aggressive Allocation	9/11/1935	-7.63	_	-3.28		7.19		7.79		4.73	\vdash	0.84	-0.06	99.14	10.22	0.74	2.13	1.38	3						
• • • • • • • • • • • • • • • • • • • •	3/11/1333	-7.03		-4.10		7.13		7.79		4./3		0.04	-0.00	33.14	10.22	0.74	2.13	1.30	3						
US OE Intermediate-Term Bond	0 /0 /:	2 1 2									السبع		0.51	25.55		0 = 1	0.7	0.7							
PIMCO Total Return Admin	9/8/1994	-0.15	78	1.32	65	1.11	72	2.98	60	5.50	9	1.04	-0.21	60.69	3.71	0.79	0.71	0.71	4						
Benchmark 1: Barclays US Agg Bond TR USD	12/31/1975	1.23		2.94		1.71		3.10		4.64		0.55	0.00	00.05	2.77	1.09	4.00	0.00							
Benchmark 2: US OE Intermediate-Term Bond	11/1/1954	0.32		1.46		1.58		3.15		4.29		0.89	0.36	83.96	2.68	1.13	1.06	0.86	3						
US OE Inflation-Protected Bond																									
PIMCO Real Return A	1/29/1997	-1.90	73	-3.04	79	-2.73	69	1.76	39	3.75	18	1.09	-0.98	96.36	5.79	0.32	0.90	0.85	2						
Benchmark 1: Barclays US Treasury US TIPS TR USD	2/28/1997	-1.15		-0.83		-1.83		2.55		4.01					5.20	0.50									
Benchmark 2: US OE Inflation-Protected Bond	4/1/1988	-1.84		-2.51		-2.46	$\overline{}$	1.53		3.05		0.88	-0.79	98.56	4.60	0.32	0.96	0.79	3						

Performance data shown represents past performance and is no guarantee of future results. Investment return and principal values fluctuate, and shares when redeemed may be more or less than their original cost. Current performance may be higher or lower than quoted. For most recent month - end performance, visit www.massmutual.com/serve

Investment Return and Risk Report As of 9/30/201)15					
		Shor	Short Term Performance				L	ong-Term	Performa	nce			5 Yr I	Risk/Retur		Pros	spectus		
																	Gross		
																Sharpe	Expense	Expense	Mstar
Fund Name	Inception Date	Qtr	%Rank	1 Yr	%Rank	3 Yr	%Rank	5 Yr	%Rank	10 Yr	%Rank	Beta	Alpha	R-Sq	St Dev	Ratio	Ratio	Ratio	Rating
US OE World Bond																			
Oppenheimer International Bond Y	9/27/2004	-1.53	64	-3.50	34	-1.27	48	0.55	57	4.72	23	0.78	1.64	54.19	6.90	0.11	0.85	0.84	3
Benchmark 1: Citi WGBI NonUSD USD	12/31/1984	1.71		-7.01		-4.59		-1.32		2.92					6.55	-0.18			
Benchmark 2: US OE World Bond	2/1/1981	-1.25		-4.50		-0.93		1.22		3.83		0.59	1.62	71.95	4.58	0.20	1.35	1.07	3
US OE Multisector Bond																			
Loomis Sayles Bond Instl	5/16/1991	-4.11	93	-6.37	92	2.40	34	4.90	22	6.32	7	0.90	1.97	15.26	6.17	0.80	0.63	0.63	4
Benchmark 1: Barclays US Universal TR USD	1/31/1990	0.68		2.33		1.89		3.36		4.80					2.68	1.23			
Benchmark 2: US OE Multisector Bond	4/1/1977	-2.22		-1.68		2.01		4.09		5.19		0.80	1.17	30.45	3.90	0.98	1.48	1.12	3

Enhanced Analytics



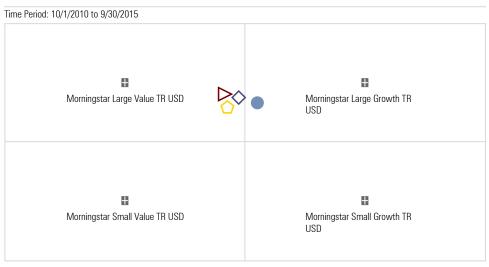
American Century Strat Allc: Agrsv Inv TWSAX

Benchmark 1: Morningstar Agg Tgt Risk TR USD Benchmark 2: S&P 500 TR USD

Category: US OE Aggressive Allocation

Return Date: 9/30/2015 **Portfolio Date:** 6/30/2015

Returns-Based Style Map



 American Century Strat Allc: Agrsv Inv
 Morningstar Agg Tgt Risk TR USD ► S&P 500 TR USD ◆ US OE Aggressive Allocation

37.5 30.0 22.5 15.0 7.5 0.0 -7.5 -15.0 -22.5 -30.0 -30.0 Effinal -37.5 2013 2012 2011 2010 2008 2007 2006 2005 2003 2002 2014 American Century Strat Allc: Agrsv Inv Morningstar Agg Tgt Risk TR USD ■S&P 500 TR USD

Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Aggressive Allocation

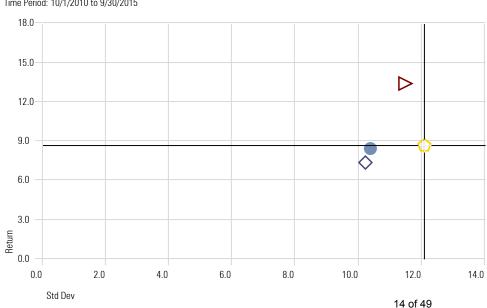


Risk-Reward

■US OE Aggressive Allocation

Returns

Time Period: 10/1/2010 to 9/30/2015



American Century Strat Allc: Cnsrv Inv TWSCX

Benchmark 1: Morningstar Mod Con Tgt Risk TR USD **Benchmark 2:** S&P 500 TR USD

Returns
37.5

30.0 22.5 15.0

7.5 0.0

Category: US OE Conservative Allocation

Return Date: 9/30/2015 **Portfolio Date:** 6/30/2015

Returns-Based Style Map



American Century Strat Allc: Cnsrv Inv
 Morningstar Mod Con Tgt Risk TR USD
 ► S&P 500 TR USD
 US OE Conservative Allocation

-7.5 -15.0 -22.5 -30.0 -30.0 Effinal -37.5 2012 2011 2010 2008 2007 2006 2005 2014 2013 2003 ■American Century Strat Allc: Cnsrv Inv ■Morningstar Mod Con Tgt Risk TR USD

2002

Performance Relative to Peer Group

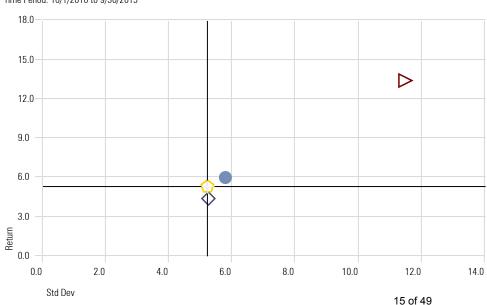
Peer Group (5-95%): Open End Funds - U.S. - Conservative Allocation



Risk-Reward

■US OE Conservative Allocation

Time Period: 10/1/2010 to 9/30/2015



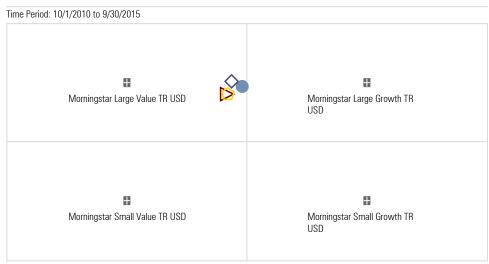
American Century Strat Allc: Mod Inv TWSMX

Benchmark 1: Morningstar Mod Agg Tgt Risk TR USD Benchmark 2: S&P 500 TR USD

Category: US OE Moderate Allocation

Return Date: 9/30/2015 **Portfolio Date:** 6/30/2015

Returns-Based Style Map



• American Century Strat Allc: Mod Inv ◆ US OE Moderate Allocation

37.5 30.0 22.5 15.0 7.5 0.0 -7.5 -15.0 -22.5 -30.0 -30.0 Effinal -37.5 2012 2011 2010 2008 2007 2006 2005 2002 2014 2013 2003 ■American Century Strat Allc: Mod Inv Morningstar Mod Agg Tgt Risk TR USD ■US OE Moderate Allocation

Performance Relative to Peer Group

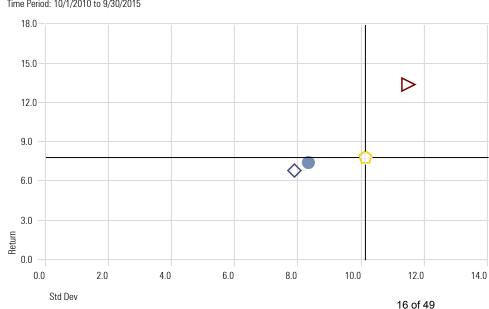
Peer Group (5-95%): Open End Funds - U.S. - Moderate Allocation



Risk-Reward

Returns

Time Period: 10/1/2010 to 9/30/2015



American Funds American Mutual R4

RMFEX

Benchmark 1: Russell 1000 Value TR USD **Benchmark 2:** S&P 500 TR USD

Category: US OE Large Value

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



30.0 22.5 15.0 7.5 -7.5 -15.0 -22.5 -30.0 -30.0 -37.5 2012 2011 2010 2008 2007 2006 2005 2003 2002 2014 2013 American Funds American Mutual R4
Russell 1000 Value TR USD ■S&P 500 TR USD

Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Large Value

◆ US OE Large Value

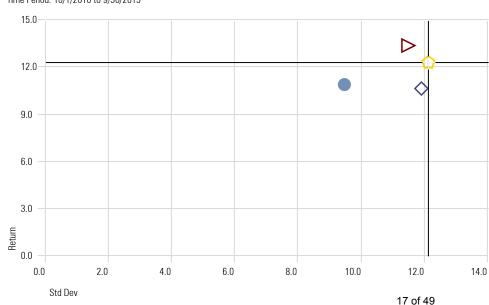


Risk-Reward

■US OE Large Value

Returns

Time Period: 10/1/2010 to 9/30/2015



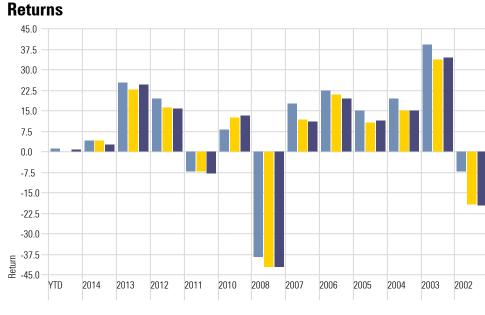
American Funds Capital World Gr&Inc R5

RWIFX

Benchmark 1: MSCI ACWI NR USD Benchmark 2: MSCI ACWI NR USD Category: US OE World Stock **Return Date:** 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map





■US OE World Stock

—MSCI ACWI NR USD

American Funds Capital World Gr

 MSCI ACWI NR USD

 MSCI ACWI NR USD

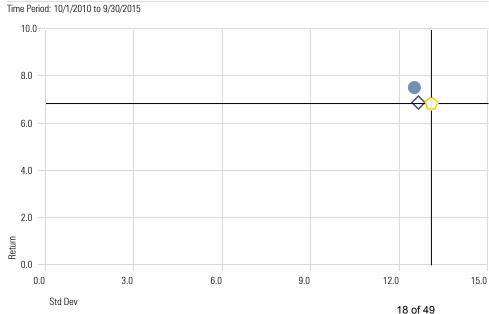
US OE World Stock

Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - World Stock Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile 14.0 12.0 10.0 8.0 6.0 4.0 2.0 0.0 -2.0 -4.0 -6.0 -8.0 -10.0 -10.0 12.0 -14.0 10 years 15 years 1 year 3 years 5 years

Risk-Reward

American Funds Capital World Gr&Inc R5



American Funds Europacific Growth R5 RERFX

Benchmark 1: MSCI ACWI Ex USA Growth NR USD Benchmark 2: MSCI ACWI Ex USA NR USD Category: US OE Foreign Large Growth **Return Date:** 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



■ American Funds Europacific Growth R5
 MSCI ACWI Ex USA Growth NR USD
 MSCI ACWI Ex USA NR USD
 US OE Foreign Large Growth

Returns 45.0 37.5 30.0 22.5 15.0 7.5 0.0 -7.5 -15.0 -22.5 -30.0 -37.5 -45.0 -45.0 -52.5 2012 2011 2010 2008 2007 2006 2002 2014 2013 2005 2003

■American Funds Europacific Growth R5 ■MSCI ACWI Ex USA Growth NR USD ■MSCI ACWI Ex USA NR USD ■US OE Foreign Large Growth

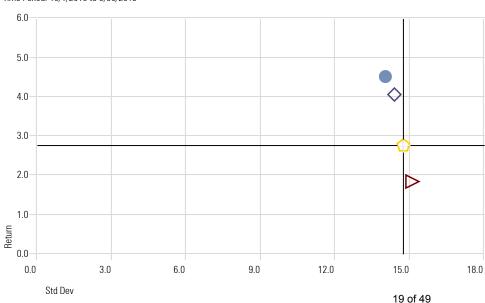
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Foreign Large Growth



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



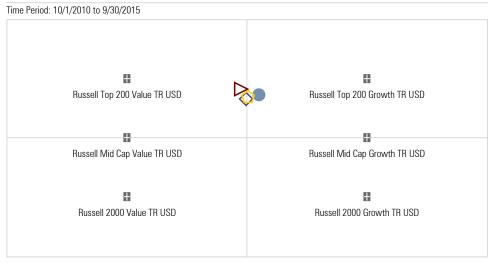
American Funds Fundamental Invs R5

RFNFX

Benchmark 1: Russell 1000 TR USD Benchmark 2: S&P 500 TR USD Category: US OE Large Blend

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map

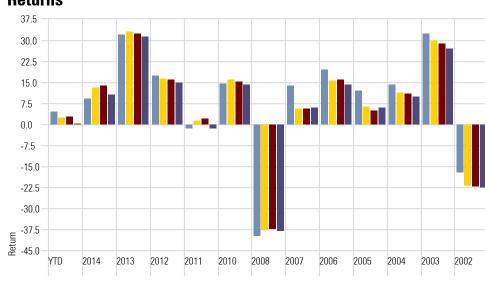


American Funds Fundamental Invs R5
 Russell 1000 TR USD

► S&P 500 TR USD

◆ US OE Large Blend

Returns



■American Funds Fundamental Invs R5 ■Russell 1000 TR USD

■S&P 500 TR USD

■US OE Large Blend

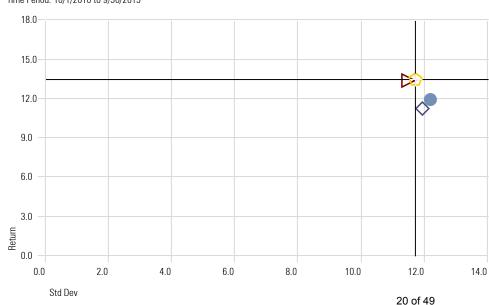
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Large Blend



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



American Funds Growth Fund of Amer R5

RGAFX

Benchmark 1: Russell 1000 Growth TR USD

Benchmark 2: S&P 500 TR USD Category: US OE Large Growth

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map

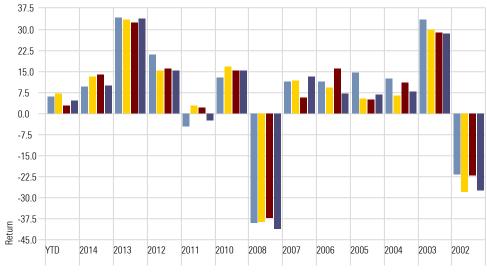


American Funds Growth Fund of Amer R5
 Russell 1000 Growth TR USD

► S&P 500 TR USD

US OE Large Growth

Returns



American Funds Growth Fund of Amer R5
Russell 1000 Growth TR USD ■US OE Large Growth

■S&P 500 TR USD

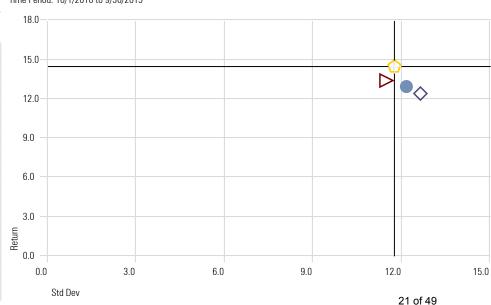
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Large Growth



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



Artisan Mid Cap Value Investor

ARTOX

Benchmark 1: Russell Mid Cap Value TR USD Benchmark 2: Russell Mid Cap TR USD Category: US OE Mid-Cap Value

► Russell Mid Cap TR USD

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



Artisan Mid Cap Value Investor

Russell Mid Cap Value TR USD

37.5 30.0 22.5 15.0 7.5 0.0 -7.5 -15.0 -22.5 -30.0 -37.5 -45.0 -37.5 2012 2011 2010 2008 2006 2005 2002 2014 2013 2003 Artisan Mid Cap Value Investor -Russell Mid Cap Value TR USD Russell Mid Cap TR USD ■US OE Mid-Cap Value

Performance Relative to Peer Group

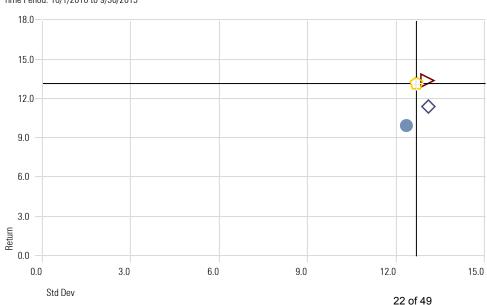
Peer Group (5-95%): Open End Funds - U.S. - Mid-Cap Value



Risk-Reward

Returns 45.0

Time Period: 10/1/2010 to 9/30/2015



Source: Morningstar Direct

US OE Mid-Cap Value

Baron Small Cap Retail

BSCFX

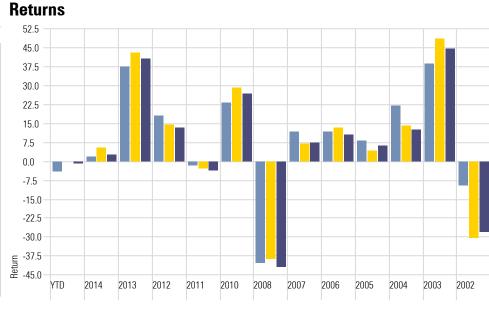
Benchmark 1: Russell 2000 Growth TR USD **Benchmark 2:** Russell 2000 Growth TR USD

Category: US OE Small Growth

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map





-Russell 2000 Growth TR USD

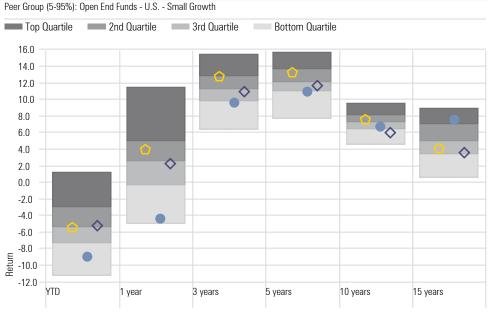
■US OE Small Growth

Baron Small Cap Retail

Russell 2000 Growth TR USD

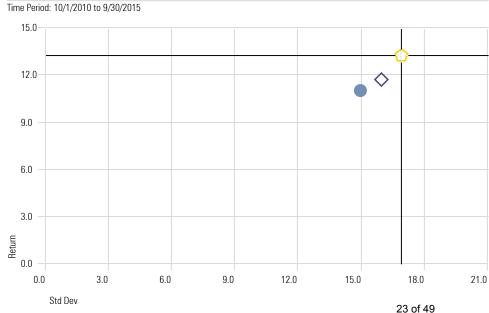
US OE Small Growth

Performance Relative to Peer Group



Risk-Reward

■Baron Small Cap Retail



Columbia Small Cap Core A LSMAX

Benchmark 1: Russell 2000 TR USD Benchmark 2: Russell 2000 TR USD Category: US OE Small Blend

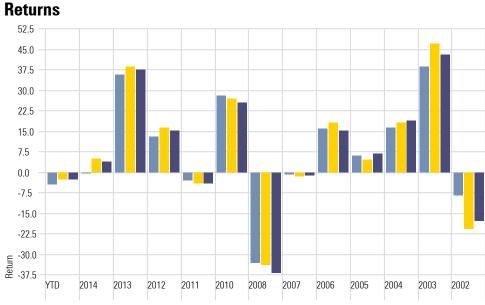
♦ US OE Small Blend

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



○ Russell 2000 TR USD



-Russell 2000 TR USD

■US OE Small Blend

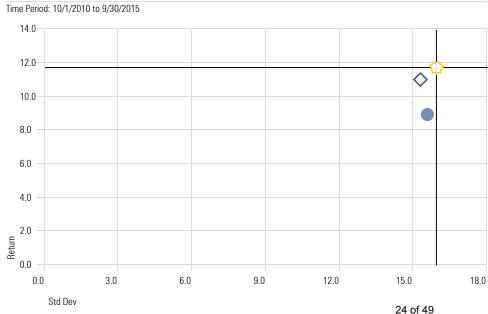
Performance Relative to Peer Group

Columbia Small Cap Core A

Peer Group (5-95%): Open End Funds - U.S. - Small Blend Top Quartile 2nd Quartile 3rd Quartile Bottom Quartile 16.0 14.0 12.0 10.0 8.0 6.0 4.0 2.0 0.0 \Diamond -2.0 -4.0 -6.0 -8.0 -10.0 -12.0 -14.0 -16.0 YTD 3 years 10 years 15 years 1 year 5 years

Risk-Reward

Columbia Small Cap Core A



Franklin Growth A

FKGRX

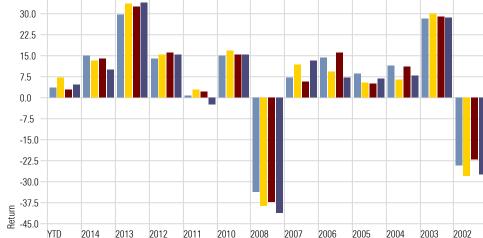
Benchmark 1: Russell 1000 Growth TR USD

Benchmark 2: S&P 500 TR USD **Category:** US OE Large Growth

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map





-Russell 1000 Growth TR USD

■S&P 500 TR USD

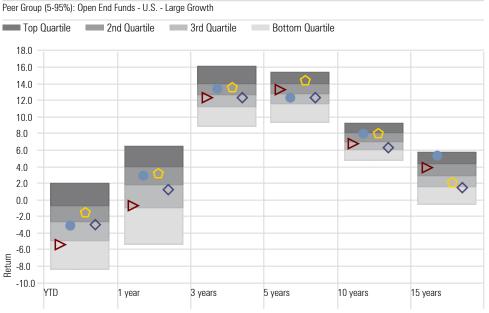
Franklin Growth A

• Russell 1000 Growth TR USD

► S&P 500 TR USD

US OE Large Growth

Performance Relative to Peer Group

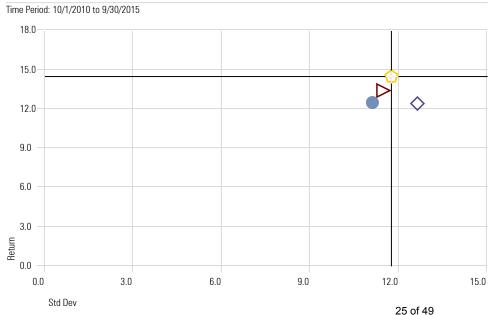


Risk-Reward

■US OE Large Growth

Franklin Growth A

Returns



Hartford Capital Appreciation HLS IA

HIACX

Benchmark 1: Russell 1000 TR USD Benchmark 2: Russell 3000 TR USD Category: US OE Large Blend

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



 Hartford Capital Appreciation HLS IA
 Russell 1000 TR USD ► Russell 3000 TR USD ◆ US OE Large Blend

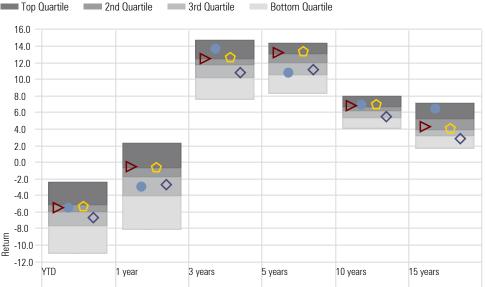
Returns 45.0 37.5 30.0 22.5 15.0 7.5 0.0 -7.5 -15.0 -22.5 -30.0 -37.5 -45.0 -45.0 -52.5 2013 2012 2011 2010 2008 2007 2006 2005 2002 2014 2003

Hartford Capital Appreciation HLS IA
Russell 1000 TR USD ■US OE Large Blend

Russell 3000 TR USD

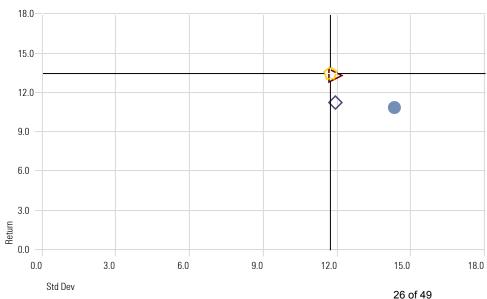
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Large Blend Top Quartile 2nd Quartile 3rd Quartile



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



Hartford Dividend and Growth HLS IA

HIADX

Benchmark 1: Russell 1000 Value TR USD Benchmark 2: S&P 500 TR USD

Category: US OE Large Value

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map

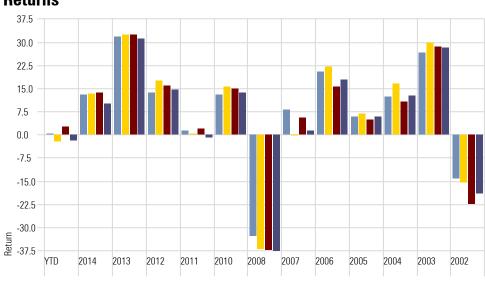


Hartford Dividend and Growth HLS IA
 Russell 1000 Value TR USD

► S&P 500 TR USD

◆ US OE Large Value

Returns



Hartford Dividend and Growth HLS IA
Russell 1000 Value TR USD

■S&P 500 TR USD

■US OE Large Value

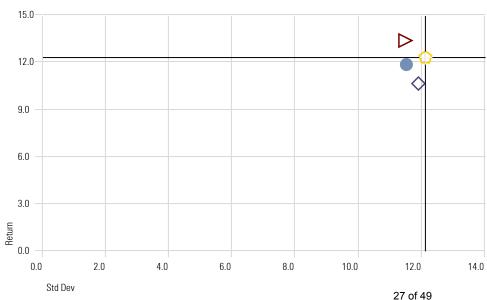
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Large Value



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



Hartford Healthcare HLS IA

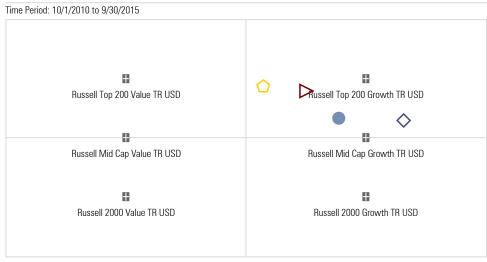
HIAHX

Benchmark 1: S&P 1500 Health Care TR Benchmark 2: S&P North American Health Care TR

Category: US OE Health

Return Date: 9/30/2015

Returns-Based Style Map



○ S&P 1500 Health Care TR S&P North American Health Care TR

Bottom Quartile

5 years

10 years

15 years

Returns 52.5 45.0 37.5 30.0 22.5 15.0 7.5 0.0 -7.5 -15.0 -22.5 -22.5 -30.0 2012 2011 2010 2008 2007 2006 2005 2003 2002 2014 2013

Hartford Healthcare HLS IAUS OF Health

S&P 1500 Health Care TR

■S&P North American Health Care TR

Performance Relative to Peer Group

1 year

2nd Quartile 3rd Quartile

Peer Group (5-95%): Open End Funds - U.S. - Health

Hartford Healthcare HLS IA

US OE Health

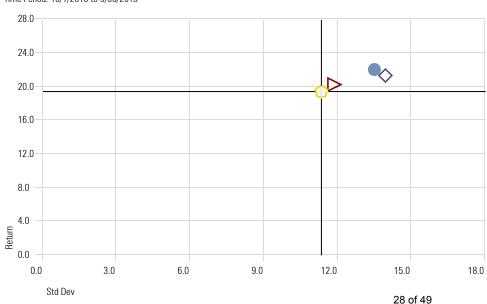
Top Quartile

30.0 27.5 25.0 22.5 20.0 17.5 15.0 12.5 10.0 7.5 5.0

3 years

Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



Source: Morningstar Direct

2.5 0.0 -2.5

-5.0

Invesco Real Estate R5

IARIX

Benchmark 1: S&P United States REIT TR USD

Benchmark 2: S&P 500 TR USD Category: US OE Real Estate

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



-37.5 -45.0 2014

Returns 45.0

> 37.5 30.0 22.5

> 15.0

7.5 0.0 -7.5

-15.0 -22.5

-30.0

-S&P United States REIT TR USD

2010

2008

2007

2006

2012

2013

2011

■S&P 500 TR USD

2002

2003

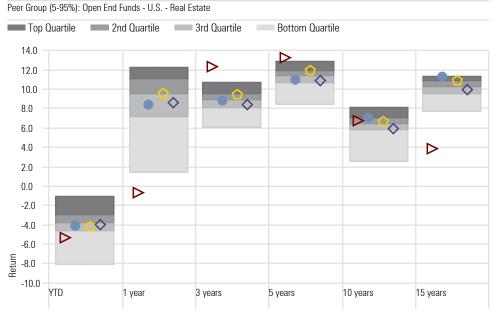
2005

Invesco Real Estate R5

◆ US OE Real Estate

○ S&P United States REIT TR USD ► S&P 500 TR USD

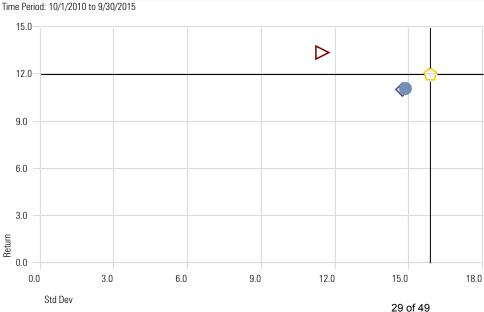
Performance Relative to Peer Group



Risk-Reward

■Invesco Real Estate R5

■US OF Real Estate



Invesco Small Cap Discovery Y

VISCX

Benchmark 1: Russell 2000 Growth TR USD

Benchmark 2: S&P 500 TR USD **Category:** US OE Small Growth

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



Invesco Small Cap Discovery Y
 Russell 2000 Growth TR USD
 ▶ S&P 500 TR USD

► S&P 500 TR USD

■Invesco Small Cap Discovery Y

■US OF Small Growth

Russell 2000 Growth TR USD

2010

2008

2012

2011

■S&P 500 TR USD

2005

2002

2003

2006

US OE Small Growth

Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Small Growth



Risk-Reward

Returns

45.0 37.5 30.0 22.5

15.0 7.5 0.0 -7.5

-15.0 -22.5

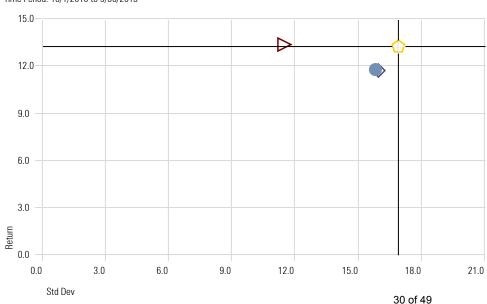
-30.0

-37.5 -45.0

Time Period: 10/1/2010 to 9/30/2015

2014

2013

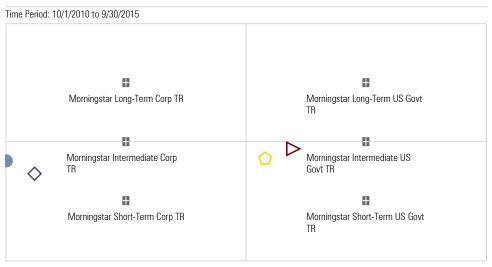


Loomis Sayles Bond Instl LSBDX

Benchmark 1: Barclays US Universal TR USD Benchmark 2: Barclays US Govt/Credit TR USD Category: US OE Multisector Bond

Return Date: 9/30/2015

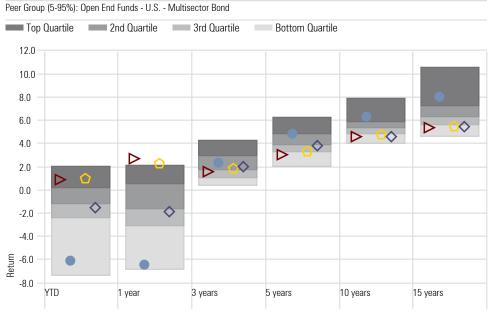
Returns-Based Style Map



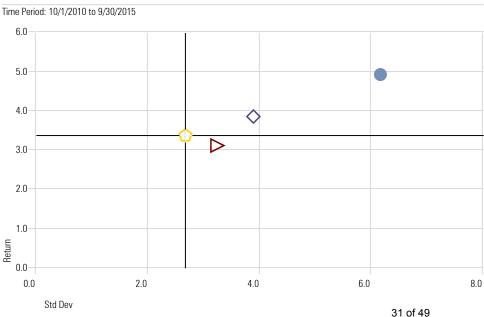
Loomis Sayles Bond Instl
 → Barclays US Universal TR USD
 → Barclays US Govt/Credit TR USD
 → US OE Multisector Bond

Returns 30.0 27.5 25.0 22.5 20.0 17.5 15.0 12.5 10.0 7.5 5.0 2.5 0.0 -2.5 -5.0 YTD 2014 2013 2012 2010 2008 2007 2006 2005 2004 2003 2002 2011 Loomis Sayles Bond Instl Barclays US Universal TR USD ■Barclays US Govt/Credit TR USD

Performance Relative to Peer Group



=US OE Multisector Bond Risk-Reward



MFS Utilities A

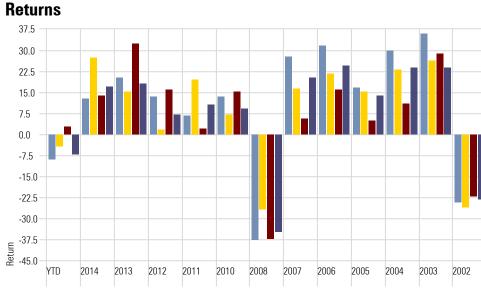
MMUFX

Benchmark 1: S&P 1500 Utilities TR **Benchmark 2:** S&P 500 TR USD **Category:** US OE Utilities

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map





S&P 1500 Utilities TR

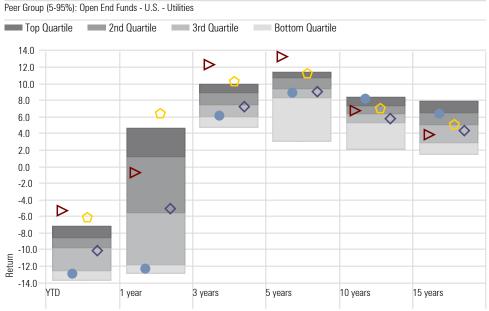
■S&P 500 TR USD

MFS Utilities AUS OE Utilities

S&P 1500 Utilities TR

► S&P 500 TR USD

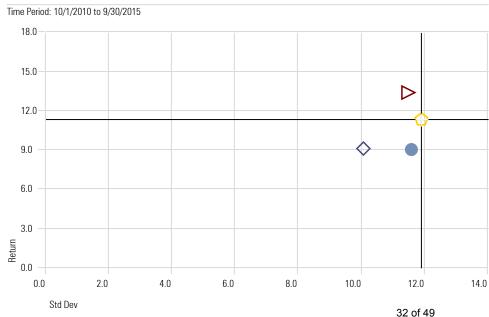
Performance Relative to Peer Group



Risk-Reward

■MFS Utilities A

■US OE Utilities



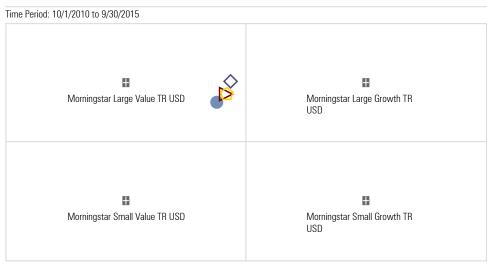
Oakmark Equity & Income I OAKBX

Benchmark 1: Morningstar Mod Agg Tgt Risk TR USD

Benchmark 2: S&P 500 TR USD Category: US OE Moderate Allocation

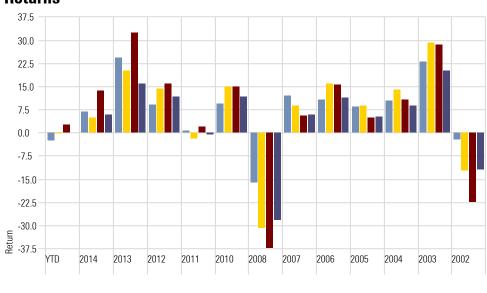
Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



Oakmark Equity & Income I Morningstar Mod Agg Tgt Risk TR USD ► S&P 500 TR USD ◆ US OE Moderate Allocation

Returns



■US OE Moderate Allocation

■Oakmark Equity & Income I

Morningstar Mod Agg Tgt Risk TR USD ■S&P 500 TR USD

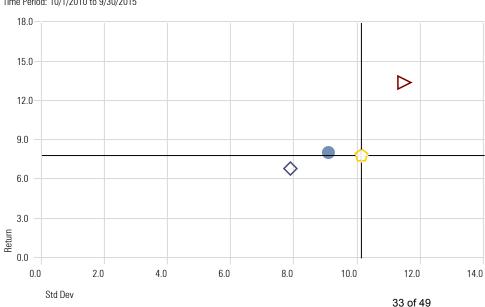
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Moderate Allocation



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015

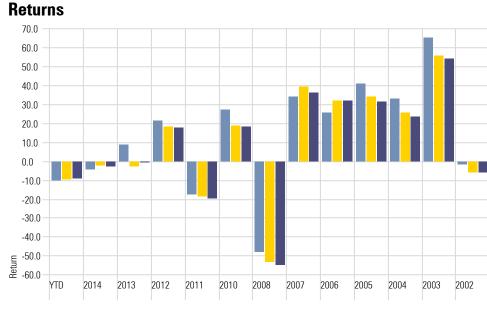


Oppenheimer Developing Markets YODVYX

Benchmark 1: MSCI EM NR USD Benchmark 2: MSCI EM NR USD Category: US OE Diversified Emerging Mkts **Return Date:** 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map





Oppenheimer Developing Markets Y
 MSCI EM NR USD

US OE Diversified Emerging Mkts

Oppenheimer Developing Markets Y MSCI EM NR USD

■US OE Diversified Emerging Mkts

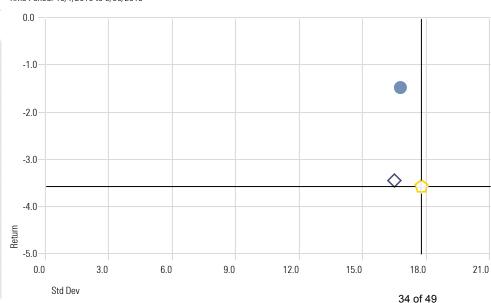
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Diversified Emerging Mkts



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



Oppenheimer International Bond Y OIBYX

Benchmark 1: Citi WGBI NonUSD USD Benchmark 2: Citi WGBI NonUSD USD Category: US OE World Bond

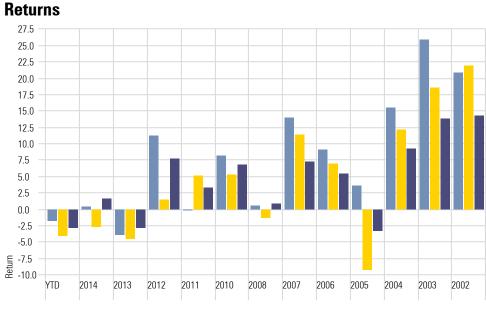
◆ US OE World Bond

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



Citi WGBI NonUSD USD

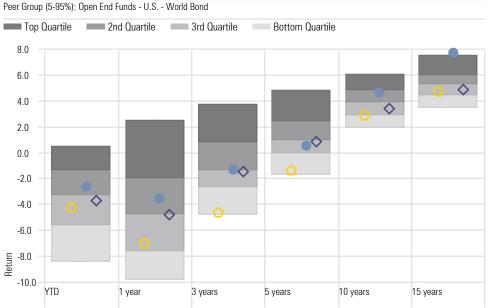


-Citi WGBI NonUSD USD

■US OE World Bond

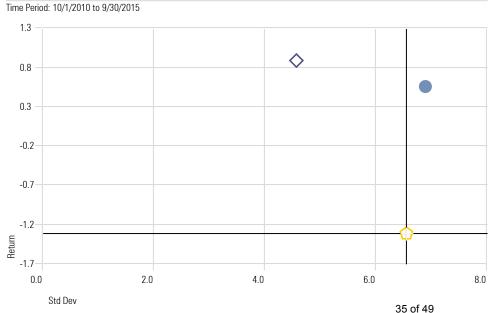
Performance Relative to Peer Group

Oppenheimer International Bond Y



Risk-Reward

Oppenheimer International Bond Y



Parnassus Core Equity Investor

PRBLX

Benchmark 1: Russell 1000 TR USD Benchmark 2: S&P 500 TR USD Category: US OE Large Blend **Return Date:** 9/30/2015 **Portfolio Date:** 9/30/2015

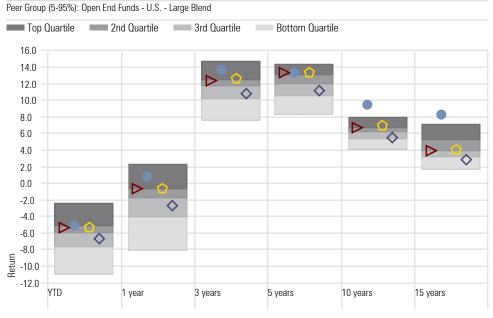
Returns-Based Style Map



Parnassus Core Equity Investor
 ◆ Russell 1000 TR USD
 ◆ US 0E Large Blend

37.5 30.0 22.5 15.0 7.5 0.0 -7.5 -15.0 -22.5 -30.0 -37.5 -37.5 -45.0 2013 2012 2011 2010 2008 2007 2006 2005 2002 2014 2003 ■Parnassus Core Equity Investor -Russell 1000 TR USD ■S&P 500 TR USD

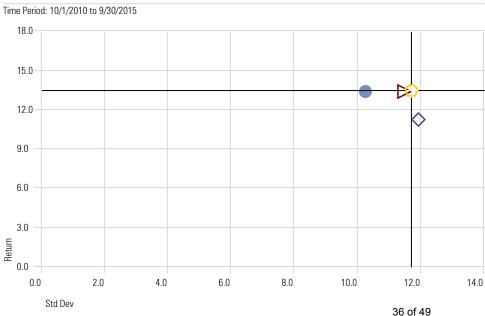
Performance Relative to Peer Group



Risk-Reward

■US OE Large Blend

Returns



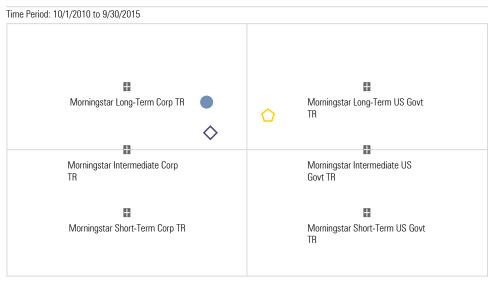
PIMCO Real Return A

PRTNX

Benchmark 1: Barclays US Treasury US TIPS TR USD Benchmark 2: Barclays US Treasury US TIPS TR USD

Category: US OE Inflation-Protected Bond

Returns-Based Style Map



Returns 18.0 16.0 14.0 12.0 10.0 8.0 6.0 4.0 2.0 0.0 -2.0 -4.0 -6.0 -8.0 -10.0 -8.0 2014 2013 2012 2011 2010 2008 2007 2006 2005 2003 2002

Return Date: 9/30/2015

PIMCO Real Return A

□ Barclays US Treasury US TIPS TR USD
• US OE Inflation-Protected Bond

■PIMCO Real Return A

Barclays US Treasury US TIPS TR USD

■US OE Inflation-Protected Bond

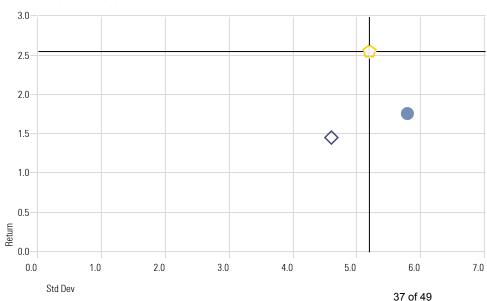
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Inflation-Protected Bond



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



PIMCO Total Return Admin

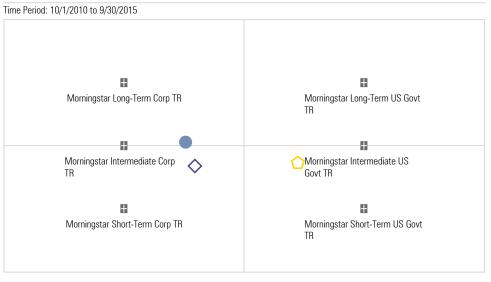
PTRAX

Benchmark 1: Barclays US Agg Bond TR USD **Benchmark 2:** Barclays US Agg Bond TR USD **Category:** US OE Intermediate-Term Bond

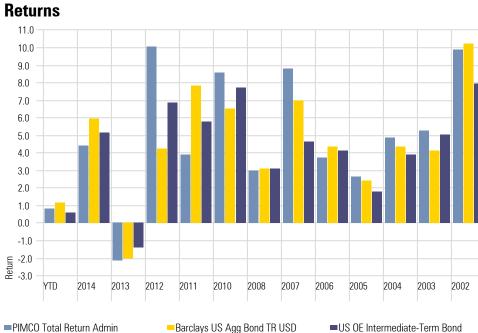
◆ US OE Intermediate-Term Bond

Return Date: 9/30/2015

Returns-Based Style Map



Barclays US Agg Bond TR USD



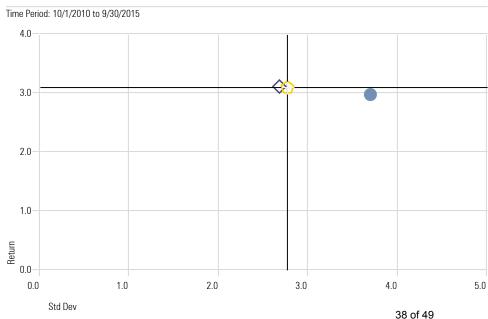
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Intermediate-Term Bond

PIMCO Total Return Admin

2nd Quartile 3rd Quartile Top Quartile Bottom Quartile 6.8 6.0 5.3 4.5 \Diamond 3.8 3.0 2.3 1.5 0.8 0.0 -0.8 Retrum 1.5 -2.3 1 year 10 years 15 years 3 years 5 years

Risk-Reward



Prudential Jennison Mid Cap Growth A PEEAX

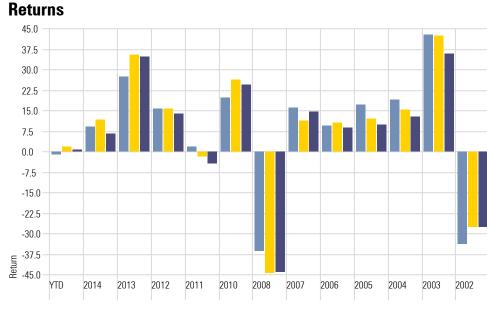
Benchmark 1: Russell Mid Cap Growth TR USD **Benchmark 2:** Russell Mid Cap Growth TR USD **Category:** US OE Mid-Cap Growth

◆ US OE Mid-Cap Growth

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



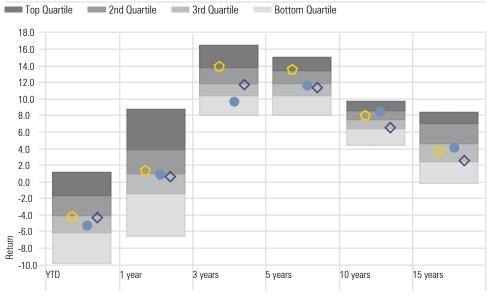


■US OE Mid-Cap Growth

Performance Relative to Peer Group

Prudential Jennison Mid Cap Growth A
 Russell Mid Cap Growth TR USD

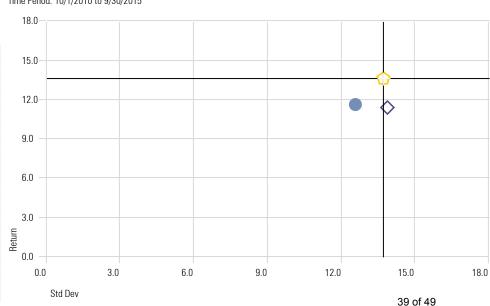
Peer Group (5-95%): Open End Funds - U.S. - Mid-Cap Growth



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015

Prudential Jennison Mid Cap Growth A
Russell Mid Cap Growth TR USD



Royce Pennsylvania Mutual Svc RYPFX

Benchmark 1: Russell 2000 Growth TR USD Benchmark 2: Russell 2000 TR USD Category: US OE Small Growth

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



Royce Pennsylvania Mutual Svc

○ Russell 2000 Growth TR USD

► Russell 2000 TR USD

◆ US OE Small Growth

Returns 52.5 45.0 37.5 30.0 22.5 15.0 7.5 0.0 -7.5

■Royce Pennsylvania Mutual Svc ■US OE Small Growth

2014

2013

Russell 2000 Growth TR USD

2010

2008

2012

2011

Russell 2000 TR USD

2005

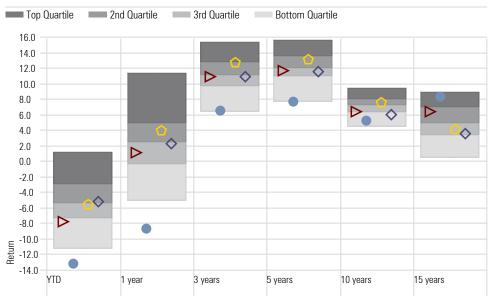
2002

2003

2006

Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Small Growth

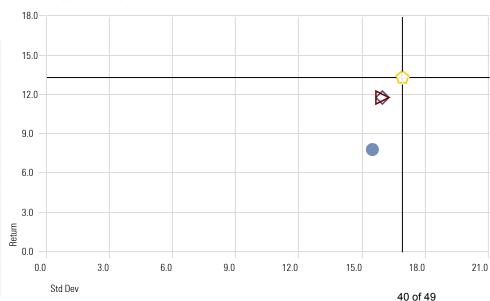


Risk-Reward

-15.0 -22.5 -30.0

-37.5 -37.5 -45.0

Time Period: 10/1/2010 to 9/30/2015



Vanguard Target Retirement 2015 Inv VTXVX

Benchmark 1: Morningstar Lifetime Mod 2015 TR USD Benchmark 2: MSCI US Broad Market NR USD **Category:** US OE Target Date 2011-2015

> **Returns** 37.5

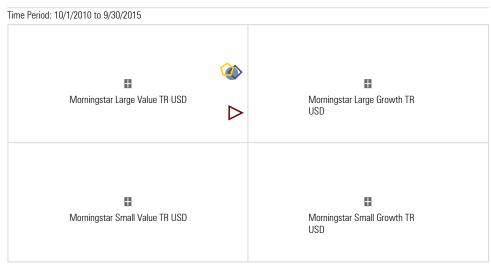
> > 30.0 22.5 15.0

7.5 0.0 -7.5 -15.0 -22.5

-30.0 -30.0 Effinal -37.5

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



Vanguard Target Retirement 2015 Inv

US OE Target Date 2011-2015



2014

2013

2012

2011

Morningstar Lifetime Mod 2015 TR USD

2008

2007

2006

2005

2010

■MSCI US Broad Market NR USD

2003

2002

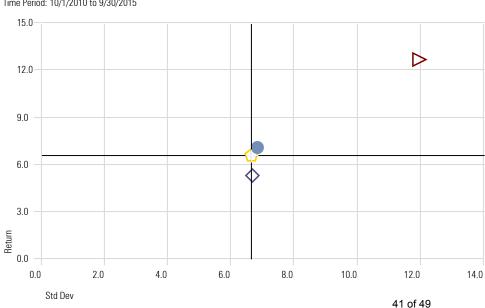
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Target Date 2011-2015



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015

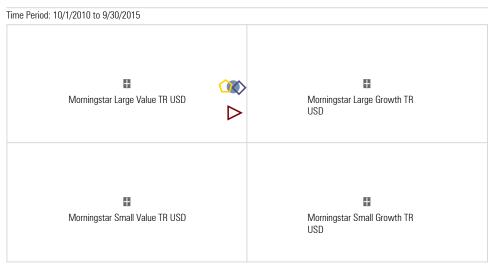


Vanguard Target Retirement 2025 Inv VTTVX

Benchmark 1: Morningstar Lifetime Mod 2025 TR USD Benchmark 2: MSCI US Broad Market NR USD Category: US OE Target Date 2021-2025

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

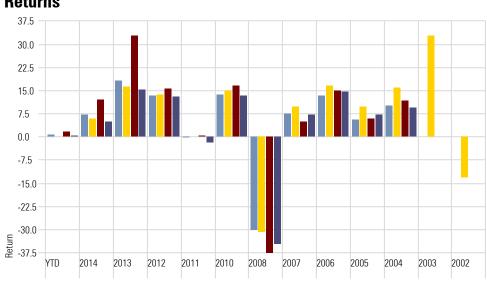
Returns-Based Style Map



Vanguard Target Retirement 2025 Inv

◆ US 0E Target Date 2021-2025

Returns



■Vanguard Target Retirement 2025 Inv ■US OE Target Date 2021-2025

Morningstar Lifetime Mod 2025 TR USD

■MSCI US Broad Market NR USD

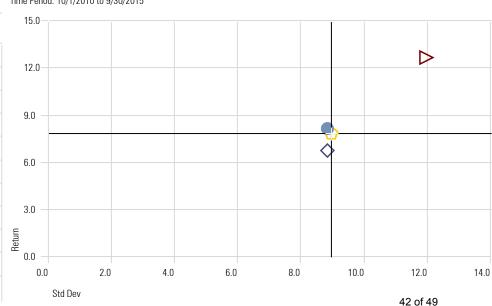
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Target Date 2021-2025



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



Vanguard Target Retirement 2035 Inv

VTTHX

Benchmark 1: Morningstar Lifetime Mod 2035 TR USD Benchmark 2: MSCI US Broad Market NR USD Category: US OE Target Date 2031-2035

Return Date: 9/30/2015 **Portfolio Date:** 9/30/2015

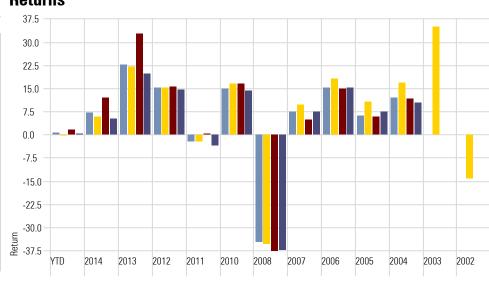
Returns-Based Style Map



Vanguard Target Retirement 2035 Inv

◆ US 0E Target Date 2031-2035

Returns



■Vanguard Target Retirement 2035 Inv

Morningstar Lifetime Mod 2035 TR USD

■MSCI US Broad Market NR USD

■US OE Target Date 2031-2035

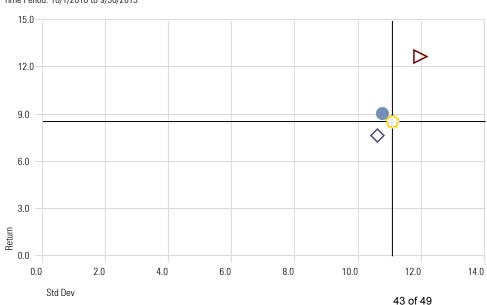
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Target Date 2031-2035



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



Vanguard Target Retirement 2045 Inv VTIVX

Benchmark 1: Morningstar Lifetime Mod 2045 TR USD Benchmark 2: MSCI US Broad Market NR USD Category: US OE Target Date 2041-2045

> **Returns** 37.5

> > 30.0 22.5 15.0

7.5

0.0 -7.5 -15.0 -22.5 -30.0

-37.5 -37.5 -45.0 **Return Date:** 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



Vanguard Target Retirement 2045 Inv

Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Target Date 2041-2045

1 year

◆ US 0E Target Date 2041-2045

10 years

15 years





5 years

3 years

■US OE Target Date 2041-2045

■Vanguard Target Retirement 2045 Inv

2014

2013

2012

2011

2010

Morningstar Lifetime Mod 2045 TR USD

2008

2007

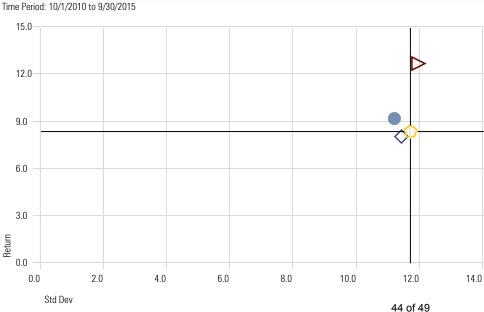
2006

2005

■MSCI US Broad Market NR USD

2002

2003

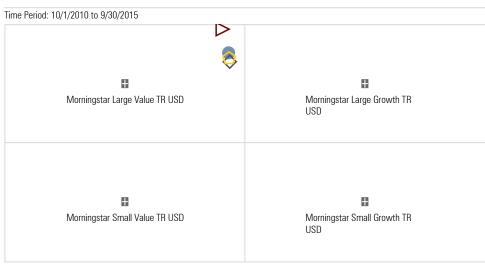


Vanguard Target Retirement Income Inv VTINX

Benchmark 1: Morningstar Lifetime Mod Incm TR USD Benchmark 2: Barclays US Agg Bond TR USD

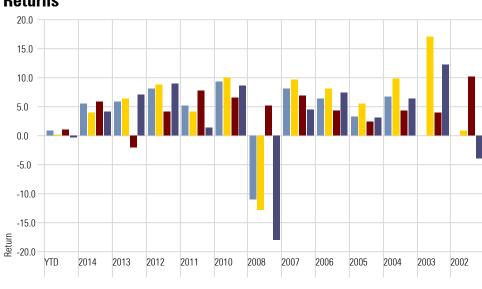
Category: US OE Retirement Income

Returns-Based Style Map



 ■ Vanguard Target Retirement Income Inv
 Morningstar Lifetime Mod Incm TR USD
 ▶ Barclays US Agg Bond TR USD ♦ US OE Retirement Income

Returns

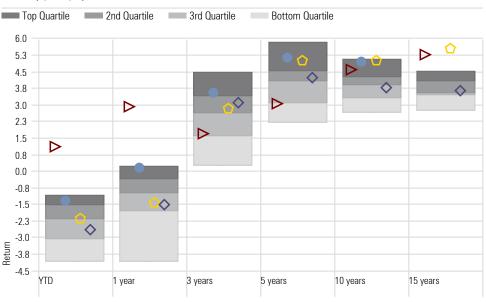


Return Date: 9/30/2015

■Barclays US Agg Bond TR USD ■US OE Retirement Income

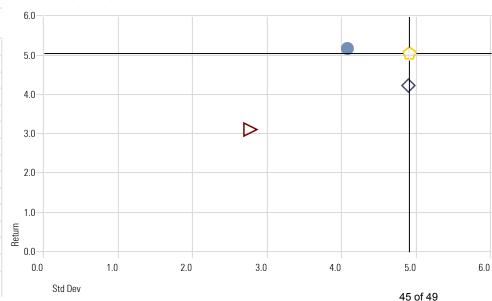
Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Retirement Income



Risk-Reward

Time Period: 10/1/2010 to 9/30/2015



Vanguard Total Stock Mkt Idx Inv VTSMX

Benchmark 1: Russell 1000 TR USD Benchmark 2: CRSP US Total Market TR USD Category: US OE Large Blend **Return Date:** 9/30/2015 **Portfolio Date:** 9/30/2015

Returns-Based Style Map



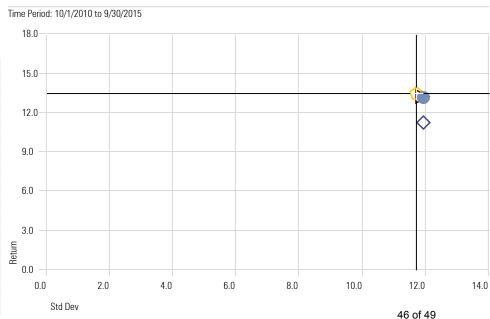
Returns 37.5 30.0 22.5 15.0 7.5 0.0 -7.5 -15.0 -22.5 -30.0 -37.5 -37.5 -45.0 2013 2012 2011 2010 2008 2007 2006 2003 2002 2014 2005 ■Vanguard Total Stock Mkt Idx Inv -Russell 1000 TR USD ■CRSP US Total Market TR USD

Performance Relative to Peer Group

Peer Group (5-95%): Open End Funds - U.S. - Large Blend 2nd Quartile 3rd Quartile Bottom Quartile Top Quartile 16.0 14.0 12.0 \Diamond 10.0 8.0 6.0 4.0 2.0 0.0 -2.0 \Diamond -4.0 -6.0 -8.0 -10.0 -12.0 YTD 3 years 10 years 15 years 1 year 5 years

Risk-Reward

■US OE Large Blend



Source: Morningstar Direct

◆ US OE Large Blend



Morningstar Disclosure

IF MORNINGSTAR CATEGORY IS USED:

- The Morningstar category identifies funds based on their underlying portfolio holdings. Classifications are based on portfolio statistics and compositions over the past three years. For funds less than three years old, category classifications are based on life of fund.
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Barclays Capital Aggregate Bond Index

The Barclays Capital Aggregate Bond Index is a measure of the U.S. bond market.

Barclays Capital Government Credit Index

The Barclays Capital Government/Credit Index measures the performance of all debt obligations of the U.S. Treasury and U.S. government agencies, and all investment-grade domestic corporate debt.

Morgan Stanley Capital International (MSCI) EAFE (Europe, Australasia, Far East) Index

The Morgan Stanley Capital International (MSCI) EAFE (Europe, Australasia, Far East) Index is a commonly used measure of the international stock market.

Morgan Stanley Capital International (MSCI) World (ex-US) Index

The Morgan Stanley Capital International (MSCI) World (ex-US) Index measures the performance of stock markets in the developed world (excluding the United States).

Morgan Stanley Capital International (MSCI) World Index

The Morgan Stanley Capital International (MSCI) World Index measures the performance of stock markets in the developed world.

Russell 1000 Growth Index

The Russell 1000 Growth Index measures the performance of large-cap U.S. growth stocks.

Russell 1000 Value Index

The Russell 1000 Value Index measures the performance of large-cap U.S. value stocks.

Russell 1000 Index

The Russell 1000 Index measures the performance of large-cap U.S. stocks.

Russell 2000 Growth Index

The Russell 2000 Growth Index measures the performance of U.S. small-cap growth stocks.

Russell 2000 Value Index

The Russell 2000 Value Index measures the performance of U.S. small-cap value stocks.

Russell 2000 Index

The Russell 2000 Index measures U.S. small-cap stocks.

Russell Mid Cap Growth Index

The Russell MidCap Growth Index measures the performance of U.S. mid-cap growth stocks.



Morningstar Disclosure

It is not possible to invest directly in an index.

Asset Allocation Conservative Index- 50% Barclays Capital Aggregate Bond Index, 35% S&P 500 Stock Index, 10% Barclays Capital Three-

Month Treasury Bill Index, 5% MSCI EAFE Index

Asset Allocation Growth Index- 60% S&P 500 Stock Index, 20% Barclays Capital Aggregate Bond Index, 20% MSCI EAFE Index

Asset Allocation Moderate Index- 50% S&P 500 Stock Index, 10% MSCI EAFE Index, 35% Barclays Capital Aggregate Bond Index, 5%

Barclays Capital Three-Month Treasury Bill Index

Asset Allocation Aggressive Growth Index- 80% S&P 500 Index, 20% MSCI EAFE Index

Russell Mid Cap Value Index

The Russell Midcap Value Index measures the performance of U.S. mid-cap value stocks.

Russell 3000 Growth Index

The Russell 3000 Growth Index measures the performance of U.S. growth stocks.

Standard & Poor's 500 Stock Index

Standard & Poor's 500 Stock Index is an unmanaged but commonly used measure of common stock total return performance.

It is not possible to invest directly in an index.

Beta is a measure of sensitivity to market movements. The beta of the market is 1.00. A beta of 1.10 shows that the fund's excess return is expected to be 10% better than the market's excess return in an up market or 10% worse in a down market. A beta of .85 indicates that the fund's excess return is expected to perform 15% less than the market's excess return during up markets and 15% greater during down markets.

Standard deviation is a statistical measurement, which for a mutual fund depicts how widely the returns varied over a certain period of time. When a fund has a high standard deviation, performance is wide, implying greater volatility.

R-squared measures the degree of relationship between the performance of the fund and that of the index. The higher the R- squared, the more related the fund's performance is to its index.

Sharpe ratio measures risk adjusted performance; it is calculated as the real total return of the fund (total return-risk free rate) divided by the risk of the fund (standard deviation).

Expense Ratio is the percentage of fund assets paid for operating expenses and management fees as per a fund's most recent prospectus. The expense ratio typically includes the following types of fees: accounting, administrator, advisor, auditor, board of directors, custodial, distribution (12b-1), legal, organizational, professional, registration, shareholder reporting, sub-advisor, and transfer agency. The expense ratio does not reflect the fund's brokerage costs or any investor sales charges.

Gross Expense Ratio does not reflect any fee waivers in effect during the time period, in contrast to the net expense ratio. Also known as the Total Annual Fund Operating Expense Ratio, Morningstar pulls the prospectus gross expense ratio from the fund's most recent prospectus. Prospectus expense ratios reflect material changes to the expense structure for the current period.

Net Expense Ratio is the net operating expenses are the expenses you are currently paying to own the Fund. If the net operating expenses shown are lower than the gross operating expenses, then the net operating expenses reflect voluntary fee waivers and/or expense reimbursements from the investment advisor that may be discontinued at any time. For more information on fee waivers and/or expense reimbursements, please see the expense table in the prospectus

The performance data shown represents past performance and is no guarantee of future results. Current performance may be lower than higher than that shown.

Investors should consider an investment's objectives, risks, charges and expenses carefully before investing. For this and other information, see the applicable prospectus (and/or summary prospectuses, if available) for the investment options listed available from your financial professional or our website. Read them carefully before investing.

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San Mateo County Investment Menu Mapping Schedule

Asset Class	Old Fund	New Fund
Large Cap Value	American Funds American Mutual R4	American Funds American Mutual R6 RMFGX
Large Cap Value	Hartford Dividend and Growth HLS IA	American Funds American Mutual R6 RMFGX
Large Blend	SSgA S&P 500 Index A	Vanguard Inst Index I VINIX
Large Blend	Parnassus Core Equity Fund Inst PRILX	Parnassus Core Equity Fund Inst PRILX
Large Blend	Vanguard Total Stock Market Index Inv	Vanguard Total Stock Market Index Inv
Large Blend	American Funds Fundamental Invs R5	American Funds Fundamental Invs R6 RFNGX
Large Blend	Hartford Capital Appreciation HLS IA	American Funds Fundamental Invs R6 RFNGX
Large Growth	American Funds Growth Fund of America R5	American Funds Growth Fund of American R6 RGAGX
Large Growth	Franklin Growth A	American Funds Growth Fund of American R6 RGAGX
Mid Cap Value	Artisan Mid Cap Value	American Century Mid Cap Value R6 AMDVX
Mid Cap Blend	SSgA Mid Cap Index A	Vanguard Mid Cap Index Instl VMCIX
Mid Cap Growth	Prudential Jenison Mid Cap Growth A	MassMutual Select Mid Cap Growth II I MEFZX
Small Cap Blend	SSgA Small Cap Index	Vanguard Small Cap Index Inst VSCIX
Small Cap Blend	Columbia Small Cap Core	Vanguard Small Cap Index Inst VSCIX
Small Cap Growth	Barron Small Cap Retail	Wells Fargo Adv Sm Co Gr Adv WSCGX
Small Cap Growth	Royce PA Mutual	Wells Fargo Adv Sm Co Gr Adv WSCGX
Small Cap Growth	Invesco Small Cap Discovery	Wells Fargo Adv Sm Co Gr Adv WSCGX
Small Cap Value	None	JP Morgan Small Cap Value R6 JSVUX
Foreign Large Growth	American Funds Europac R5	American Funds Europac R6 RERGX
Foreign Large Blend	None	Vanguard Developed Markets Index Inv VDVIX
World Stock	American Funds Capital World Growth & Income R5	American Funds Capital World Growth & Income R6 RWIGX
Diversified Emerging Mkts	Oppenheimer Developing Mkts Y	Oppenheimer Developing Mkts Instl ODVIX
Utilities	MFS Utilities Fund A	MFS Utilities Fund R4 MMUJX
Health Care	Hartford Healthcare HLS IA HIAHX	Hartford Healthcare HLS IA HIAHX
Real Estate	INVESCO Real Estate Fund R5 IARIX	INVESCO Real Estate Fund R5 IARIX
Conservative Allocation	American Century Strategic Allocation Conservative Inv	Vanguard Target Retirement 2015 Inv VTXVX
Moderate Allocation	American Century Strategic Allocaion Moderate Inv	Vanguard Target Retirement 2025 Inv VTTVX
Aggressive Allocation	American Century Strategic Allocation Aggressive	Vanguard Target Retirement 2035 Inv VTTHX
Balanced Fund	Oakmark Equity & Income I	Oakmark Equity & Income I OAKBX
Target Date	Vanguard Target Retirement Income Inv	Vanguard Target Retirement Income Inv VTINX
Target Date	Vanguard Target Retirement 2015 Inv	Vanguard Target Retirement 2015 Inv VTXVX
Target Date	Vanguard Target Retirement 2025 Inv	Vanguard Target Retirement 2025 Inv VTTVX

Asset Class Old Fund

Target Date Vanguard Target Retirement 2035 Inv Target Date Vanguard Target Retirement 2045 Inv

2055 Target Date None

Inflation Protected Bond PIMCO Real Return A

Intermediate Bond PIMCO Total Return Admin

Multi Sector Bond Loomis Sayles Bond Inst LSBDX

Bond Market Index None

World Bond Oppenheimer International Bond Y

High Yield None

Stable Value General Account

Bank of the West

Schwab

Red=Funds Being Eliminated

Green=New Funds or Shareclass

Black=Existing Fund

New Fund

Vanguard Target Retirement 2035 Inv VTTHX
Vanguard Target Retirement 2045 Inv VTIVX
Vanguard Target Retirement 2055 Inv VFFVX

PIMCO Real Return Inst
PIMCO Total Return Inst
Loomis Sayles Bond Inst
PRAIX
PTTRX
LSBDX

Vanguard Total Bond Market Index I VBTIX

Oppenheimer International Bond Inst OIBIX

MassMutual Premier High Yield I MPHZ X

MassMutual SAGIC Bank of the West

Schwab