Investment Performance Review Period Ending June 30, 2023

## Washoe County 457 & 401a Plans



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2nd Quarter 2023 Market Environment



#### The Economy

- Though the Atlanta Fed GDPNow model forecasted weak GDP growth in 2023 as the impact from higher interest rates continued to spread through the broader economy, the first quarter GDP final revision of 2% was markedly higher than the 1.3% first reported.
- The US Federal Reserve Bank (the Fed) continued to increase interest rates during the quarter with an additional 0.25% increase in the Fed Funds rate in May, followed by a pause in June. The Fed continues to prioritize fighting high inflation with the press release from the June meeting detailing the extent that additional policy firming (i.e., rate increases) will consider the cumulative tightening of monetary policy, the lags with which monetary policy affects economic activity and inflation, and economic and financial developments.
- June brought some weakness in the US labor market as nonfarm payrolls increased by 209,000, below the expected 240,000 new jobs. This represented the slowest month for job creation since December 2020. Initial jobless also rose for the week ending July 1st.
- The global banking sector came under duress in the first quarter of 2023, triggered by the second and third-largest regional bank failures in US history. Fears of deterioration in the banking sector have waned, likely helped by aggressive intervention from the FDIC and Federal Reserve.

#### Equity (Domestic and International)

- US equities moved broadly higher during the second quarter led by growthoriented sectors. The S&P 500 Benchmark rose 8.7% for the quarter, its bestperforming quarter since Q4-2021. Large-cap growth was the best-performing domestic segment of the equity market during the period while small-cap value, while positive, was the weakest relative performer for the quarter.
- International stocks experienced modest returns during the quarter. Local currency (LCL) performance outpaced US Dollar (USD) performance in most regions though both benchmarks were positive as the USD traded higher during the quarter.
- Global GDP growth continues to face challenges despite falling energy prices. European growth remained under pressure amid hawkish central bank policies. While China has fully reopened after almost three years of COVID-19 restrictions, there have been challenges associated with the region re-integrating with the global economy.

#### **Fixed Income**

- While inflation continues to decline, the Fed maintained their inflation-fighting policy stance, increasing interest rates by 0.25% in May but opting to pause in June. The additional rate hike in May along with the possibility that additional rate hikes could occur in this tightening cycle, drove intermediate and long-term rates slightly higher during the quarter.
- US Government securities were the worst-performing sector during the quarter. US Treasuries lagged the corporate and securitized sectors as yields at longer maturities rose slightly and credit conditions were considered more favorable than the previous quarter.
- Corporate bonds with lower credit ratings held up better than higher quality issues, aided by narrowing credit spreads as well as their higher coupons. High-yield bonds were the best-performing segment of the domestic bond market, echoing the equity market's positive sentiment during the quarter.
- Global bonds underperformed US issues during the quarter and the trailing oneyear period.

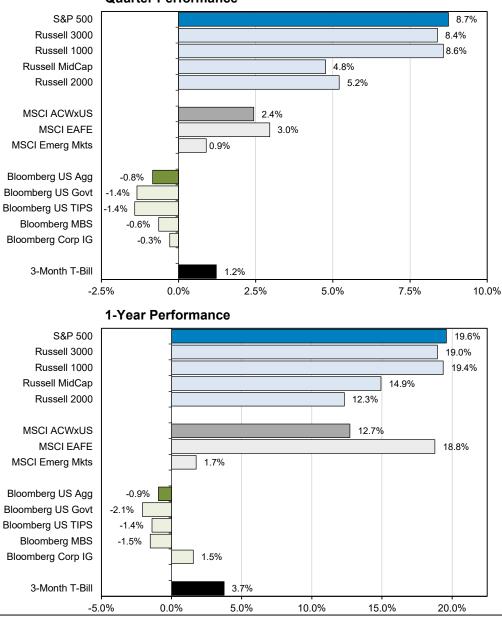
#### **Market Themes**

- Central banks remained vigilant in their fight against inflation with the Fed, the Bank of England, and the European Central foreshadowing the potential for further tightening with additional rate hikes in the coming months. GDP contraction in the Eurozone for the previous two quarters has been met with recovering asset prices in the most recent quarter as investors remain hopeful of future growth.
- The conflict in Ukraine continues without expectations of any resolution in the near future. Energy costs have subsided in recent months attributed to a mild winter in the Eurozone region and an increase in fossil fuel production in the US.
- Short-term interest rates rose across most developed markets as central banks continued to tighten policy stances. Despite previous concerns about the potential for slowing economic growth, lower-quality corporate bonds outpaced higherquality government bonds as credit spreads narrowed.
- Both US and international equity markets continued to recover from the disappointing year that was 2022 on expectations that inflation would continue to moderate and central banks would slow the pace of their monetary tightening cycles. Growth has significantly outpaced value in the previous two quarters.



- Domestic equity markets started 2023 with solid results, led mostly by the large-cap names. The poor performance posted by domestic equities in the first half of 2022 has rolled off and now each index has turned positive on a trailing one-year basis. Factors contributing to the quarter's results include strong economic data in the face of higher benchmark rates and the expectation that the Fed would slow the pace of future interest rate increases. For the period, the S&P 500 large-cap benchmark returned 8.7% versus 4.8% for mid-cap and 5.2% for small-cap benchmarks.
- International developed and emerging market equities also delivered positive results, albeit lagging behind their domestic counterparts. Europe continues to face geopolitical risks related to the conflict in Ukraine and rising interest rates, though inflation has eased somewhat due to higher rates and more manageable energy prices. Performance in the emerging market index was led by the Latin America region whose regional index posted a strong 14.0% return in USD terms. The developed market MSCI EAFE Index returned 3.0% for the quarter and the MSCI Emerging Markets Index rose by 0.9%.
- The domestic bond market ebbed during the quarter due to higher rates from the Federal Reserve's decision to hike policy rates an additional 0.25%. The Bloomberg (BB) US Aggregate Index returned -0.8% for the period while investment-grade corporate bonds were down less with a return of -0.3%.
- During the one-year trailing period, US equity markets were positive as the weak performance from the first half of 2022 rolled off. The S&P 500 Index returned 19.6% for the year. The weakest relative performance for the year was the Russell 2000 Index, which still climbed 12.3% over the last 12months.
- International markets also rolled off their poor performance in 2022. Over the trailing one-year period, the MSCI EAFE Index returned 18.8% while the MSCI Emerging Markets Index added a much more modest 1.7%. Concerns relating to the conflict in Ukraine continued to emanate throughout the region and globally. Elevated inflation and slowing global economic growth continue to be an additional headwind for global markets.
- Bond markets softened further, posting negative returns over the previous 1year period for most indices. The primary driver of results during the first half of 2023 continues to be higher interest rates, which directly impact bond prices and index performance. Investment-grade corporate bonds were the only sector to post positive performance over the previous 12-months, adding 1.5%. The US Government sector suffered the most for the period, posting a return of -2.1%.

Source: Investment Metrics

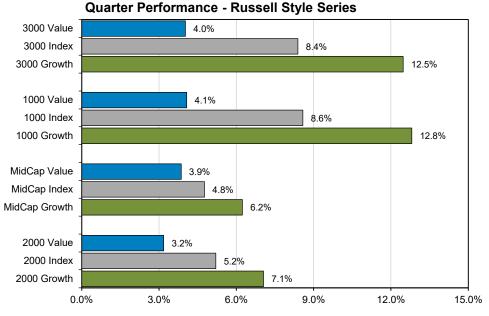


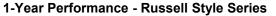
#### Quarter Performance

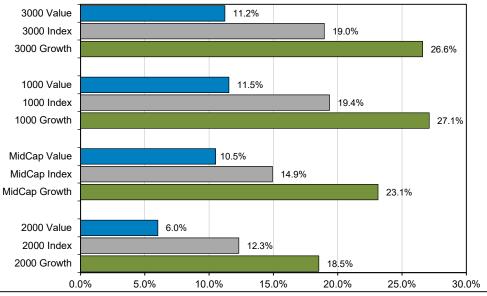
- Core domestic equity benchmarks posted positive results for the second quarter in a row. However, concerns regarding the regional banking sector and the financial sector's large weight in the value benchmarks weighed heavily on the broad value indices' performance in the first half of 2023. Large-cap stocks once again led results for the capitalization-based benchmarks, besting both the mid-cap and small-cap indices for the quarter. Growth benchmarks posted the strongest results as economic data continues to show favorable conditions for growth stocks. The Russell 1000 Growth Index topped the quarter, returning 12.8% followed by the Russell 2000 Growth Index and the Russell Midcap Growth Index, which rose by 7.1% and 6.2%, respectively.
- As previously stated, Growth stocks at all capitalization ranges outperformed their value counterparts by a wide margin for the quarter. This continued the 2023 theme of growth-based benchmark outperformance. Among the value benchmarks Large cap, mid-cap and small-cap value each posted positive performance for the quarter with the Russell 1000 Value Index leading the way at 4.1%.

- The second quarter's continued positive performance in tandem with the poor performance from the first half of 2022 rolling off the various benchmark returns turned the Russell indices positive on a trailing 12-month basis. Within large-cap stocks, the Russell 1000 Growth Index returned a strong 27.1%, leading the way among style and market capitalization classifications. The worst-performing index was the Russell 2000 Value, which posted a modest 6.0% return for the trailing 12-months.
- Growth rebounded from disappointing results in early 2022 and led valuebased benchmarks in all market capitalization ranges during the trailing year. The Russell 2000 Growth Index returned 18.5%, outpacing the Russell 2000 Value index return of 6.0% by a span of 12.5%. The Russell 1000 Growth and Russell Midcap Growth benchmarks gained 27.1% and 23.1%, respectively, while their corresponding value index counterparts returned solid, but lagging, performance of 11.5% and 10.5%, respectively.

Source: Investment Metrics



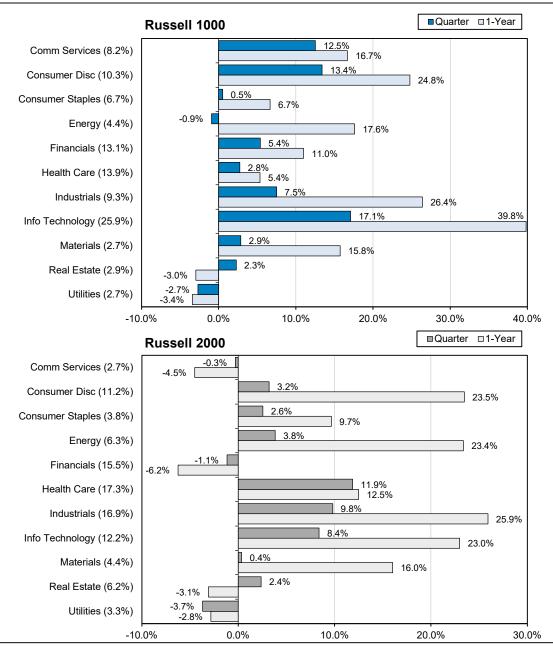






- Large Cap sector performance was mostly positive for the second quarter. Nine of 11 economic sectors posted positive absolute performance for the quarter, but just three managed to outpace the return of the Russell 1000 index.
- After a challenging 2022, the information technology sector continued its dominating rebound, amassing an impressive 17.1% return for the quarter. The other two sectors that outpaced the headline index's return for the quarter were communication services (12.5%) and consumer discretionary (13.4%). Energy (-0.9%), and utilities (-2.7%) were the two sectors that lost ground for the quarter.
- For the full year, four economic sectors exceeded the return of the broad large-cap benchmark and seven of the eleven sectors posted positive performance. The weakest economic sector in the Russell 1000 for the year was utilities, which declined by -3.4% and was heavily impacted by rising energy costs and a market rotation away from defensive names.

- Eight small-cap economic sectors posted positive results during the quarter while just three exceeded the 5.2% return of the Russell 2000 Index. The health care (11.9%), industrials (9.8%), and information technology (8.4%) sectors led the way, outpacing the broad benchmark for the quarter while the utilities (-3.7%), financials (-1.1%), and communication services (-0.3%) sectors posted negative returns.
- Like large cap sector performance over the trailing year, seven small cap sectors were positive. Industrials posted the strongest sector results (25.9%) but the consumer discretionary, energy, and information technology sectors each also returned in excess of 20% for the last 12-months. Five of the 11 economic sectors fell short of core small-cap benchmark's return of 12.3% over the trailing year. The worst-performing sector for the year was financials with a return of -6.2%. The communication services (-4.5%), real estate (-3.1%), and utilities (-2.8%) sectors also posted negative results for the year.



Source: Morningstar Direct

As a result of the GICS classification changes on 9/28/2018 and certain associated reporting limitations, sector performance represents backward looking performance for the prior year of each sector's current constituency, post creation of the Communication Services sector.



The Market Environment Top 10 Index Weights & Quarterly Performance for the Russell 1000 & 2000 A

As	of	J	une	30,	2023	
AS	ot	J	une	30,	2023	

Top 10 Weighted Stocks				
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector
Apple Inc	7.0%	17.8%	42.7%	Information Technology
Microsoft Corp	6.2%	18.4%	33.9%	Information Technology
Amazon.com Inc	2.9%	26.2%	22.7%	Consumer Discretionary
NVIDIA Corp	2.4%	52.3%	179.3%	Information Technology
Tesla Inc	1.8%	26.2%	16.6%	Consumer Discretionary
Alphabet Inc Class A	1.7%	15.4%	9.9%	Communication Services
Meta Platforms Inc Class A	1.5%	35.4%	78.0%	Communication Services
Berkshire Hathaway Inc Class B	1.5%	10.4%	24.9%	Financials
Alphabet Inc Class C	1.5%	16.3%	10.6%	Communication Services
UnitedHealth Group Inc	1.1%	2.1%	-5.1%	Health Care

Top 10 Weighted Stocks					
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector	
Super Micro Computer Inc	0.5%	133.9%	517.7%	Information Technology	
SPS Commerce Inc	0.3%	26.1%	69.9%	Information Technology	
Rambus Inc	0.3%	25.2%	198.6%	Information Technology	
Chart Industries Inc	0.3%	27.4%	-4.5%	Industrials	
Novanta Inc	0.3%	15.7%	51.8%	Information Technology	
Chord Energy Corp Ordinary Shares	0.3%	16.9%	38.0%	Energy	
Light & Wonder Inc Ordinary Shares	0.3%	14.5%	46.3%	Consumer Discretionary	
ChampionX Corp	0.3%	14.8%	57.8%	Energy	
Atkore Inc	0.3%	11.0%	87.9%	Industrials	
Commercial Metals Co	0.3%	8.0%	61.2%	Materials	

Top 10 Performing Stocks (by Quarter)					
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector	
XP Inc Class A	0.0%	97.6%	30.6%	Financials	
Wayfair Inc Class A	0.0%	89.3%	49.2%	Consumer Discretionary	
Carnival Corp	0.0%	85.5%	117.7%	Consumer Discretionary	
XPO Inc	0.0%	85.0%	95.0%	Industrials	
Palantir Technologies Inc	0.1%	81.4%	69.0%	Information Technology	
MongoDB Inc Class A	0.1%	76.3%	58.4%	Information Technology	
Vertiv Holdings Co Class A	0.0%	73.1%	201.6%	Industrials	
Nu Holdings Ltd Ordinary Shares	0.0%	65.8%	111.0%	Financials	
AppLovin Corp Ordinary Shares -	0.0%	63.4%	-25.3%	Information Technology	
Norwegian Cruise Line Holdings Ltd	0.0%	61.9%	95.8%	Consumer Discretionary	

Top 10 Performing Stocks (by Quarter)					
Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector	
CXApp Inc Ordinary Shares - Class A	0.0%	503.3%	9.2%	Information Technology	
Immunogen Inc	0.2%	391.4%	319.3%	Health Care	
Applied Digital Corp	0.0%	317.4%	790.5%	Information Technology	
Presto Automation Inc	0.0%	230.4%	N/A	Information Technology	
EyePoint Pharmaceuticals Inc	0.0%	195.9%	10.5%	Health Care	
CARISMA Therapeutics Inc	0.0%	182.9%	N/A	Health Care	
P3 Health Partners Inc Class A	0.0%	182.1%	-19.6%	Health Care	
Nano X Imaging Ltd Ordinary Shares	0.0%	168.5%	37.1%	Health Care	
Carvana Co Class A	0.1%	164.8%	14.8%	Consumer Discretionary	
Bit Digital Inc Ordinary Shares	0.0%	163.6%	209.9%	Information Technology	

Botto	m 10 Perform	ning Stocks (	by Quarter)		Bottor	n 10 Perform	ning Stocks (	by Quarter)	
Russell 1000	Weight	1-Qtr Return	1-Year Return	Sector	Russell 2000	Weight	1-Qtr Return	1-Year Return	Sector
Victoria's Secret & Co	0.0%	-49.0%	-37.7%	Consumer Discretionary	Babylon Holdings Ltd Ordinary Shares	0.0%	-98.6%	-99.7%	Health Care
Advance Auto Parts Inc	0.0%	-41.5%	-58.1%	Consumer Discretionary	ViewRay Inc	0.0%	-89.8%	-86.7%	Health Care
Tandem Diabetes Care Inc	0.0%	-39.6%	-58.5%	Health Care	Rain Oncology Inc	0.0%	-86.3%	-78.4%	Health Care
First Horizon Corp	0.0%	-35.8%	-46.6%	Financials	FibroGen Inc	0.0%	-85.5%	-74.4%	Health Care
Ubiquiti Inc	0.0%	-35.1%	-28.5%	Information Technology	HomeStreet Inc	0.0%	-66.6%	-82.0%	Financials
Catalent Inc	0.0%	-34.0%	-59.6%	Health Care	BioXcel Therapeutics Inc	0.0%	-64.3%	-49.5%	Health Care
Concentrix Corp Ordinary Shares	0.0%	-33.4%	-39.9%	Industrials	Orchestra BioMed Holdings Inc	0.0%	-64.2%	N/A	Health Care
MarketAxess Holdings Inc	0.0%	-33.0%	3.1%	Financials	PolyMet Mining Corp	0.0%	-63.2%	-68.6%	Materials
Mercury Systems Inc	0.0%	-32.3%	-46.2%	Industrials	Enviva Inc	0.0%	-62.4%	-80.1%	Energy
Peloton Interactive Inc	0.0%	-32.2%	-16.2%	Consumer Discretionary	NanoString Technologies Inc	0.0%	-59.1%	-68.1%	Health Care

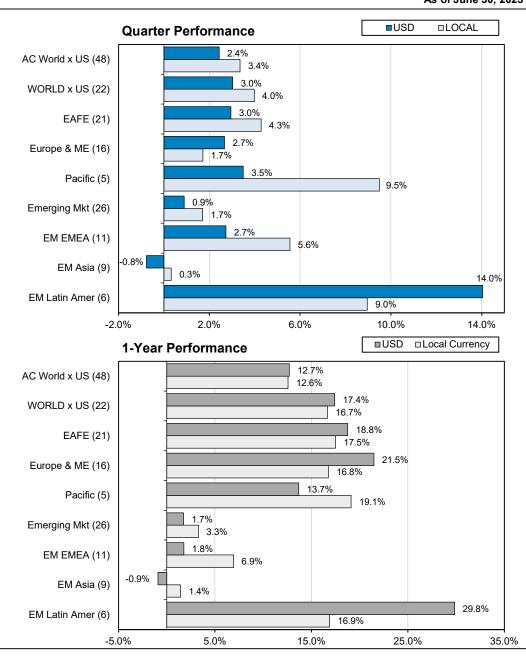
Source: Morningstar Direct



Source: MSCI Global Index Monitor (Returns are Net)

- Many of the international developed and emerging market benchmarks . posted positive performance in both USD and LCL terms for the second guarter. While the strengthening of the USD chilled non-US index performance in USD during the quarter, the developed market MSCI EAFE Index still returned a solid 3.0% in USD and 4.3% in LCL terms for the period. The MSCI Emerging Markets Index rose by 0.9% in USD and 1.7% in LCL terms.
- Latin America (LATAM) dramatically outpaced other emerging markets for the guarter with the regional index earning a solid 14.0% in USD and 9.0% in LCL terms. Performance in the region was driven by strong demand for commodity exports from growing worldwide production along with a USD performance boost due to local currency strength in the region.
- The largest weighted country in the emerging market index (China, 8.2%) lagged during the quarters. Investors have struggled to accurately forecast the pace of China's recovery after its grand economic reopening from COVID-19 lockdowns, which led to a flurry of spending that has since cooled.
- Much like domestic markets, trailing one-year results for international developed and emerging markets rolled off their poor performance from early 2022 which resulted in strong results for the trailing year. Much of the strong USD performance in late 2022 has been reversed in 2023 with the MSCI EAFE Index returning 18.8% in USD for the year and 17.5% in LCL terms.
- Annual returns across emerging markets were more bifurcated. Latin American results led the way with returns of 29.8% in USD and 16.9% in LC terms. Performance in the EM Asia regional benchmark detracted from emerging market index with the EM Asia Index posting returns of -0.9% in USD and 1.4% in LCL terms. As a result, the broad MSCI Emerging Markets Index returned a muted 1.7% in USD and 3.3% in LCL terms for the year.





The Market Environment

## US Dollar International Index Attribution & Country Detail As of June 30, 2023

MSCI - EAFE	Sector Weight	Quarter Return	1-Year Return
Communication Services	4.1%	-2.6%	2.2%
Consumer Discretionary	12.6%	5.0%	30.6%
Consumer Staples	10.1%	-0.6%	9.9%
Energy	4.2%	0.1%	14.3%
Financials	18.3%	4.6%	20.2%
Health Care	13.2%	2.0%	9.8%
Industrials	16.2%	6.2%	29.6%
Information Technology	8.2%	5.9%	32.7%
Materials	7.4%	-1.7%	16.4%
Real Estate	2.3%	-2.0%	-7.4%
Utilities	3.5%	4.0%	16.5%
Total	100.0%	3.0%	18.8%

MSCI - ACWIXUS	Sector Weight	Quarter Return	1-Year Return
Communication Services	5.5%	-4.6%	-0.7%
Consumer Discretionary	12.1%	1.5%	12.6%
Consumer Staples	8.6%	-0.4%	9.0%
Energy	5.4%	3.4%	9.4%
Financials	20.6%	4.9%	13.2%
Health Care	9.6%	1.5%	7.4%
Industrials	13.2%	5.4%	24.9%
Information Technology	11.9%	6.1%	24.1%
Materials	7.9%	-2.7%	10.7%
Real Estate	2.0%	-2.5%	-9.5%
Utilities	3.2%	3.7%	7.8%
Total	100.0%	2.4%	12.7%

MSCI - Emerging Mkt	Sector Weight	Quarter Return	1-Year Return
Communication Services	9.8%	-6.8%	-3.6%
Consumer Discretionary	13.2%	-6.3%	-15.3%
Consumer Staples	6.4%	0.3%	4.4%
Energy	5.0%	12.1%	13.5%
Financials	21.9%	5.7%	6.4%
Health Care	3.8%	-2.5%	-9.6%
Industrials	6.3%	1.8%	5.3%
Information Technology	21.2%	5.1%	14.1%
Materials	8.1%	-4.2%	1.8%
Real Estate	1.8%	-4.9%	-17.7%
Utilities	2.6%	4.2%	-6.7%
Total	100.0%	0.9%	1.7%

	MSCI-EAFE	MSCI-ACWIxUS	Quarter	1- Year
Country	Weight	Weight	Return	Return
Japan	22.4%	14.5%	6.4%	18.1%
United Kingdom	14.7%	9.5%	2.2%	13.2%
France	12.4%	8.0%	3.2%	31.7%
Switzerland	10.1%	6.5%	4.0%	13.3%
Germany	8.6%	5.6%	2.8%	28.4%
Australia	7.3%			11.2%
		4.7%	0.3%	
Netherlands	4.6%	3.0%	4.1%	31.2%
Sweden	3.3%	2.1%	-1.2%	16.6%
Denmark	3.1%	2.0%	1.7%	31.9%
Spain	2.6%	1.7%	5.6%	29.0%
Italy	2.5%	1.6%	8.2%	43.4%
Hong Kong	2.5%	1.6%	-5.1%	-9.0%
Singapore	1.4%	0.9%	-5.6%	10.0%
Belgium	0.9%	0.6%	-6.1%	6.1%
Finland	0.9%	0.6%	-8.1%	-1.2%
Ireland	0.8%	0.5%	4.3%	45.3%
Norway	0.6%	0.4%	-1.0%	-9.0%
Israel	0.6%	0.4%	-4.0%	-4.7%
Portugal	0.2%	0.1%	-1.1%	6.7%
New Zealand	0.2%	0.1%	-6.0%	15.5%
Austria	0.2%	0.1%	4.4%	18.9%
Total EAFE Countries	100.0%	64.6%	3.0%	18.8%
Canada		7.6%	3.7%	7.0%
Total Developed Countries		72.2%	3.0%	17.4%
China		8.2%	-9.7%	-16.8%
Taiwan		4.3%	4.5%	12.5%
India		4.1%	12.2%	14.2%
Korea		3.4%	4.4%	13.0%
Brazil		1.5%	20.7%	29.8%
Saudi Arabia		1.2%	6.3%	-1.7%
South Africa		0.9%	-4.9%	-1.9%
Mexico		0.8%	5.6%	35.1%
Indonesia		0.6%	2.8%	13.2%
Thailand		0.5%	-8.2%	1.7%
Malaysia		0.4%	-8.4%	-6.4%
United Arab Emirates		0.4%	5.8%	-6.1%
Qatar		0.3%	-2.4%	-15.4%
Poland		0.2%	24.5%	36.4%
Kuwait		0.2%	-0.9%	-4.7%
Philippines		0.2%	-1.3%	5.8%
Chile		0.2%	2.4%	18.1%
Turkey		0.2%	-10.7%	53.3%
Greece		0.1%	23.9%	71.3%
Peru		0.1%	6.5%	34.0%
Hungary		0.1%	24.8%	48.8%
Czech Republic		0.0%	-5.1%	8.7%
Colombia		0.0%	11.7%	-5.7%
Egypt		0.0%	3.9%	27.0%
Total Emerging Countries		27.8%	0.9%	1.7%
Total ACWIxUS Countries		100.0%	2.4%	12.7%

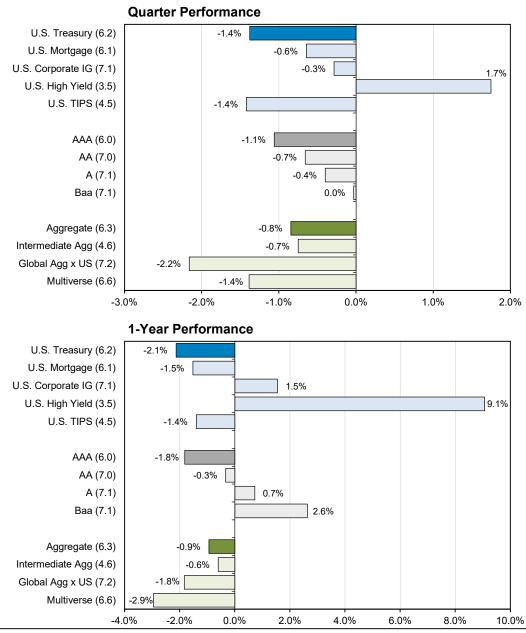
Source: Morningstar Direct, MSCI Global Index Monitor (Returns are Net in USD)

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#### The Market Environment Domestic Bond Sector & Broad/Global Bond Market Performance (Duration) As of June 30, 2023

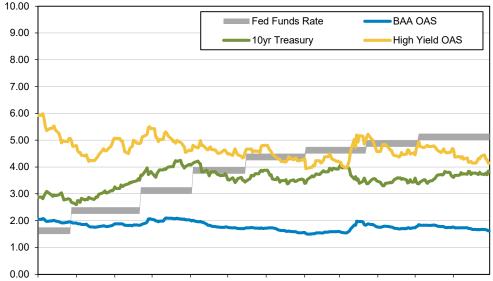
- Fixed income markets started 2023 strong but performance stalled during the second quarter. Yields remain elevated on the back of the Federal Reserve's decision to hike policy rates an additional 0.25% in May. After a challenging 2022 in fixed-income markets brought on by the largest and most rapid increase in interest rates since the early 1980s, higher yields and an expected slower pace of rate increase led investors to expect better outcomes in 2023. That expectation was at least temporarily frustrated during the second quarter, as the quarter's 0.25% rate hike and increased expectations for future rate hikes weighed on the asset class and many of the major domestic fixed-income indices posted negative absolute returns.
- The Bloomberg US Aggregate Bond Index, the bellwether US investment grade benchmark, returned a mild negative result, returning -0.8% for the quarter. Performance across the investment grade index's segments soured during the period with the Bloomberg US Corporate Investment Grade Index returning -0.3% and the US Mortgage Index sliding -0.6%.
- Outside of the aggregate index's sub-components, high-yield bonds continued to rise with a return of 1.7% as credit spreads narrowed during the quarter. US TIPS lost -1.4% for the quarter. The Bloomberg Global Aggregate ex-US Index lagged most domestic fixed-income indexes and the multiverse benchmark, posting a loss of -2.2% for the quarter.
- Over the trailing one-year period, the Bloomberg US Aggregate Bond Index declined by -0.9%. The benchmark's sub-components fell in a narrow band above and below the broad index's return. US TIPS, which are excluded from the aggregate index, dropped by -1.4% for the year. High-yield corporate bonds, which have a much shorter duration, have outpaced their investment grade counterparts with the Bloomberg US High Yield Index returning a strong 9.1% for the last year.
- Performance for non-US bonds was also negative for the year with the Bloomberg Global Aggregate ex-US Index falling by -1.8%. The combination of rising interest rates, elevated inflation, and geopolitical risks were a hindrance for non-US index performance.



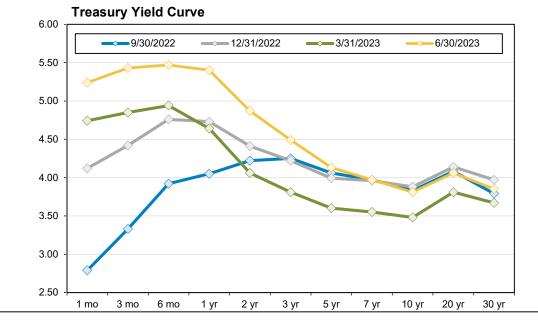




- The gray band across the graph illustrates the range of the current Fed Funds target rate. During the second quarter, the Federal Open Market Committee (FOMC) raised the lower end of its target rate range from 4.75% to 5.00% at their May meeting. While the FOMC pushed pause on a rate increase at their June meeting, several speeches and public comments since that meeting have made it clear that additional rate hikes should not be ruled out. The FOMC is continuing its policy of removing liquidity from the market by allowing bonds held on its balance sheet to mature without reinvesting those proceeds. Despite the potential for further rate increases, market participants appear to believe the Fed may be nearing the end of its rate hiking cycle.
- The yield on the US 10-year Treasury (green line) rose a modest 0.33% partially due to increases in the policy rate and renewed prospects for future growth. The closing yield on the 10-Year Treasury was 3.81% as of June 30, 2023, down just 7 basis points from its 3.88% yield at year-end. The benchmark's rate peaked in October 2022, cresting at just over 4.00% before pulling back to its current level.
- The blue line illustrates changes in the BAA OAS (Option Adjusted Spread) for BAA-rated corporate bonds. This measure quantifies the additional yield premium that investors require to purchase and hold non-US Treasury investment grade issues with the lowest investment grade rating. For the full year, the spread has narrowed from 2.05% to 1.62%, signaling a lower premium for credit risk than was the case a year prior. High Yield OAS spreads have narrowed from 5.92% in July 2022 to 4.14% as of the end of Q2. High-yield spreads reached their highs in July 2022 before trading lower the remainder of the year and have continued to tighten in 2023. A spike in both the BAA OAS and High Yield spreads is visible in March following a short-lived crisis of confidence in the banking sector, which was addressed quickly by the FDIC and supported further by the Fed's aggressive short-term par loan program. Both spread measures traded lower on the news of the Government's intervention, and as fears of possible contagion waned, credit spreads returned to their levels prior to February.
- The lower graph provides a snapshot of the US Treasury yield curve at the end of each of the last four quarters. Short-term rates continued to rise during the second quarter as the Fed increased interest rates to continue combatting inflation. Despite these short-term rate increases, at the end of the quarter, both intermediate and longer-term yields were slightly lower than they were at the end of 2022. The yield curve has further inverted (short-term rates higher than long-term rates) between two- and 10-year maturities. Historically, a persistent inversion of these two key rates has been a precursor of an economic recession within six- to 24 months.



**1-Year Trailing Market Rates** 



Jul-22 Aug-22 Sep-22 Oct-22 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 May-23 Jun-23

## Source: US Department of Treasury, FRED (Federal Reserve of St. Louis)

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#### **Evaluation Process**

This section presents charts and graphs that highlight the investment character of each portfolio analyzed. The performance, portfolio characteristics, risk profile, and style traits of each portfolio are compared against those of its benchmark(s) and other funds with similar objectives. Eight criteria-specific rankings are developed, and then combined, to establish each portfolio's overall status.

The table below describes the evaluation standards used. Significant changes in portfolio characteristics compared to historical positioning, large performance deficits, and risk or style shortcomings are fundamental factors in concluding if remedial action is advisable. However, a violation of one of more of the standards does not automatically require remedial action.

Investment Policy Criteria	Weighting	Summary of Evaluation
Manager Performance		
Investment Returns vs. Peer Group	20%	A fund is evaluated relative to where its 1, 3 and 5-year returns fall within its peer group. The results for each period are combined to determine total ranking (satisfactory, modest breach, significant concern). A similar process is used to evaluate the fund's performance relative to its benchmark(s).
Historical Performance vs. Benchmark	20%	
Portfolio Characteristics		
Adherence to Standards	10%	These criteria compare portfolio characteristics such as market capitalization, number of holdings, cash, and concentration of holdings against objective standards and benchmarks. For example, a fund with a high allocation to cash or with a high/low average market capitalization relative to its benchmark will reserve a low are and a diditionally fund benchmarket.
Inception & Manager Tenure	10%	benchmark will receive a lower grade. Additionally, funds having less than three years of performance history or having manager tenure of less than three years will receive a lower grade.
Risk Profile		
Sharpe Ratio & Standard Deviation Relative to Peer Group	10%	A fund is evaluated relative to where its 3- and 5-year Sharpe ratio and standard deviation fall within its peer group. The results for each period are combined to determine total ranking. A similar process is used to evaluate the fund's Sharpe ratio and standard deviation relative to its benchmark(s).
Sharpe Ratio & Standard Deviation Relative to Benchmark	10%	
Style Traits		
Adherence to Investment Objectives	10%	A fund's style is evaluated based upon how closely it adheres to its stated investment objective and how stable its style has been historically. Criteria used to evaluate a fund's style traits include returns- based style analysis, statistics such as r-squared, and portfolio characteristics such as price/earnings
Historical Style Stability	10%	ratio. Funds with style traits that are inconsistent with their stated objective or historically unstable receive lower grades.
Status		
Overall Status		The results for all criteria are combined to determine an overall ranking for the fund. Rankings include Satisfactory, Modest Breach ("Guarded" status) and Significant Concern ("Watch List" status).

Note: Grades are based on AndCo's Proprietary scale



#### **Portfolio Evaluation Summary**

This report provides opinions, analysis, and supporting statistical information concerning:

- the performance, volatility, and characteristics of each designated Plan fund
- the continuing suitability of each fund as a Plan investment option

#### Portfolio Performance and Suitability of Plan Funds

Our overall evaluation of the Plan's investment funds may be summarized as follows:

Summary Evaluation	Number of Funds
Pass (Satisfactory)	14
Guarded	1
Watch	1

See the Plan Funds Observations and Comments, below, for further explanation.

#### Plan Fund Observations and Comments

The majority of Plan funds have substantially achieved their category-specific standards for performance, controlled volatility, and portfolio characteristics. The charts in the following pages reveal some modest breaches compared to established

Fund Commentary

The Hartford Mid Cap Fund remains on GUARDED status due to near term underperformance that has impacted longer term relative performance. The Fund continues to suffer from some significant underperformance experienced earlier during 2022. The fund did post exceptionally good performance during the first quarter as exposures to consumer discretionary, industrials and technology bounced back. However, second quarter results struggled in heavily weighted sectors like technology, industrials and healthcare. We will continue to monitor the fund, we are not recommending any changes at this time.

evaluation standards; however, we do not find divergences from the funds' stated objectives or styles that are worrisome except as discussed below.

The American Century Equity Income Fund was placed on WATCH status due to near term underperformance that has undermined the downside protection the fund provided in 2022.. The Funds relative performance suffered from exposures to financials, utilities, real estate and communication services. The fund has performed in the top 20th percentile in three of the last seven years and been ranked in the bottom 75th percentile in four of the last seven. We are recommending that the committee seek alternatives for this strategy.



## Portfolio Evaluation Summary

1	Trailing 1, 3 and 5-year portfolio returns versus peer group	
2	Historic performance relative to benchmark	
3	Portfolio characteristics compared to established standards	
4	At least 3 years of investment performance/At least 3 years with current fund manager	Pass (
5	Sharpe ratio and standard deviation of fund relative to peer group	Guarde
6	Sharpe ratio and standard deviation of fund relative to benchmark	Watch
7	Style consistent with fund objective	
8	Style historically stable	
9	Summary Evaluation	
	4 5 6 7 8	<ul> <li>Historic performance relative to benchmark</li> <li>Portfolio characteristics compared to established standards</li> <li>At least 3 years of investment performance/At least 3 years with current fund manager</li> <li>Sharpe ratio and standard deviation of fund relative to peer group</li> <li>Sharpe ratio and standard deviation of fund relative to benchmark</li> <li>Style consistent with fund objective</li> <li>Style historically stable</li> </ul>

Pass (Satisfactory)
Guarded
Watch

Investment Funds	1	2	3	4	5	6	7	8	9
American Funds EuroPacific Growth (RERGX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Allspring Small Co Growth R6 (WSCRX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Vanguard Small Cap Index Adm (VSMAX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
AMG Managers Skyline Special Equities (SKSEX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Hartford Mid Cap (HIMCX)	Guarded	Guarded	Pass	Pass	Pass	Pass	Pass	Pass	Guarded
Vanguard Mid Cap Index Adm (VIMAX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
American Funds Growth Fund of America (RGAGX)	Pass	Guarded	Pass						
Allspring Disciplined US Core (EVSIX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Vanguard Institutional Index (VINIX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
American Century Equity Income (AEUDX)	Watch	Watch	Pass	Pass	Pass	Pass	Pass	Pass	Watch
American Funds Target Date 2060-2010 R6	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
American Funds American Balanced (RLBGX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
PIMCO High Yield (PHIYX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
PIMCO Foreign Bond USD-Hedged (PFORX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Hartford Total Return Bond (HIABX)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Voya Fixed Account	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass



## Historical Summary Evaluation

Pass (Satisfactory)

Guarded Watch

Investment Funds	1Q23	4Q22	3Q22	2Q22	1Q22	4Q21	3Q21	2Q21	1Q21
American Funds EuroPacific Growth (RERGX)	Pass								
Allspring Small Co Growth R6 (WSCRX)	Pass	Guarded	Guarded						
Vanguard Small Cap Index Adm (VSMAX)	Pass								
AMG Managers Skyline Special Equities (SKSEX)	Pass								
Hartford Mid Cap (HIMCX)	Guarded	Guarded	Guarded	Guarded	Guarded	Pass	Pass	Pass	Guarded
Vanguard Mid Cap Index Adm (VIMAX)	Pass								
American Funds Growth Fund of America (RGAGX)	Pass	Pass	Pass	Guarded	Guarded	Guarded	Pass	Pass	Pass
Allspring Disciplined US Core (EVSIX)	Pass	Guarded	Guarded						
Vanguard Institutional Index (VINIX)	Pass								
American Century Equity Income (AEUDX)	Pass	Pass	Pass	Guarded	Guarded	Guarded	Guarded	Guarded	Pass
American Funds Target Date 2060-2010 R6	Pass								
American Funds American Balanced (RLBGX)	Pass								
PIMCO High Yield (PHIYX)	Pass								
PIMCO Foreign Bond USD-Hedged (PFORX)	Pass								
Hartford Total Return Bond (HIABX)	Pass								
Voya Fixed Account	Pass								



Asset Allocation 457 Total Plan

As of June 30, 2023

Asset Allocation Attributes						
	Jun-2023		Mar-20		Dec-20	022
	(\$)	%	(\$)	%	(\$)	%
Total 457 Fund	194,480,417	100.00	190,854,267	100.00	186,584,228	100.00
International Equity						
American Funds EuroPacific Growth (RERGX)	5,950,888	3.06	6,041,812	3.17	5,436,657	2.91
Domestic Equity						
Allspring Small Co Growth (WSCRX)	2,427,393	1.25	2,387,505	1.25	2,234,601	1.20
Vanguard Small Cap Index (VSMAX)	3,979,817	2.05	3,837,554	2.01	3,790,350	2.03
AMG Managers Skyline Special Equities (SKSEX)	1,850,814	0.95	1,914,184	1.00	1,850,307	0.99
Hartford Mid Cap (HIMCX)	8,303,483	4.27	8,384,597	4.39	7,919,433	4.24
Vanguard Mid Cap Index (VIMAX)	7,011,334	3.61	6,853,324	3.59	6,643,689	3.56
AF Growth Fund of America (RGAGX)	17,420,040	8.96	15,934,077	8.35	14,524,709	7.78
Allspring Disciplined US Core (EVSIX)	13,269,289	6.82	12,414,457	6.50	11,825,281	6.34
Vanguard Institutional Index (VINIX)	22,280,668	11.46	20,609,372	10.80	19,455,169	10.43
American Century Equity Income (AEUDX)	6,932,572	3.56	6,989,713	3.66	7,112,800	3.81
Balanced Fund						
American Funds American Balanced (RLBGX)	6,883,343	3.54	6,683,418	3.50	6,787,679	3.64
Fixed Income						
PIMCO High Yield (PHIYX)	2,330,318	1.20	2,203,973	1.15	2,126,652	1.14
PIMCO Foreign Bond USD-Hedged (PFORX)	445,689	0.23	475,407	0.25	484,327	0.26
Hartford Total Return Bond (HIABX)	3,255,307	1.67	3,462,082	1.81	3,431,161	1.84
Cash						
Voya Fixed Account	69,570,955	35.77	72,349,311	37.91	72,503,469	38.86
Loan Account	2,355,599	1.21	1,031,772	0.54	2,128,479	1.14

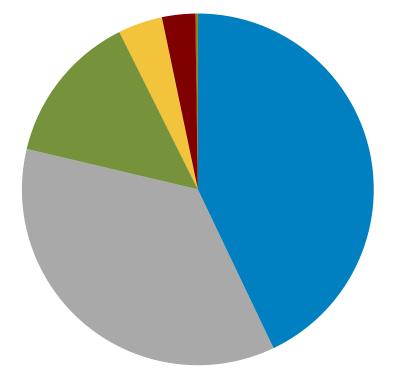


### Asset Allocation 457 Target Date Funds As of June 30, 2023

	Jun-2	023	Mar-2	023	Dec-2	Dec-2022	
	(\$)	%	(\$)	%	(\$)	%	
merican Funds 2060 TD Fund R6 (RFUTX)	345,326	1.71	282,447	1.46	243,967	1.33	
merican Funds 2055 TD Fund R6 (RFKTX)	365,997	1.81	305,826	1.59	252,309	1.38	
merican Funds 2050 TD Fund R6 (RFITX)	2,613,811	12.93	2,412,678	12.51	2,171,389	11.85	
merican Funds 2045 TD Fund R6 (RFHTX)	1,861,545	9.21	1,718,914	8.91	1,469,959	8.02	
merican Funds 2040 TD Fund R6 (RFGTX)	5,068,923	25.08	4,869,492	25.25	4,631,800	25.27	
merican Funds 2035 TD Fund R6 (RFFTX)	1,739,971	8.61	1,600,398	8.30	1,435,707	7.83	
merican Funds 2030 TD Fund R6 (RFETX)	4,853,170	24.01	4,706,769	24.41	4,582,783	25.00	
merican Funds 2025 TD Fund R6 (RFDTX)	1,571,620	7.78	1,716,173	8.90	1,944,528	10.61	
merican Funds 2020 TD Fund R6 (RRCTX)	1,525,011	7.54	1,515,203	7.86	1,473,661	8.04	
merican Funds 2015 TD Fund R6 (RFJTX)	40,377	0.20	36,405	0.19	31,180	0.17	
merican Funds 2010 TD Fund R6 (RFTTX)	227,158	1.12	117,402	0.61	92,183	0.50	
arget Date Funds Total	20,212,908	100.00	19.281,707	100.00	18,329,465	100.00	



			AS OF JUNE 30, 20
Jun-2023 : \$194,480,417	Allocation		
		Market Value	Allocation
	US Equity	83,475,411	42.9
	Cash	69,570,955	35.8
	US Balanced	27,096,251	13.9
	US Fixed Income	7,941,223	4.1
	International Equity	5,950,888	3.1
	International Fixed Income	445,689	0.2





## Asset Allocation by Asset Class 457 Total Plan As of June 30, 2023

			AS 01 Julie 30, 202
Jun-2023 : \$194,480,417	Allocation	Marilas ( ) /a lasa	All 4'
		Market Value	Allocation
	American Funds EuroPacific Growth (RERGX)	5,950,888	3.1
	Allspring Small Co Growth (WSCRX)	2,427,393	1.2
	Vanguard Small Cap Index (VSMAX)	3,979,817	2.0
	AMG Managers Skyline Special Equities (SKSEX)	1,850,814	1.0
	Hartford Mid Cap (HIMCX)	8,303,483	4.3
	Vanguard Mid Cap Index (VIMAX)	7,011,334	3.6
	AF Growth Fund of America (RGAGX)	17,420,040	9.0
	Allspring Disciplined US Core (EVSIX)	13,269,289	6.8
	Vanguard Institutional Index (VINIX)	22,280,668	11.5
	American Century Equity Income (AEUDX)	6,932,572	3.6
	American Funds American Balanced (RLBGX)	6,883,343	3.5
	PIMCO High Yield (PHIYX)	2,330,318	1.2
	PIMCO Foreign Bond USD-Hedged (PFORX)	445,689	0.2
	Hartford Total Return Bond (HIABX)	3,255,307	1.7
	American Funds 2060 TD Fund R6 (RFUTX)	345,326	0.2
	American Funds 2055 TD Fund R6 (RFKTX)	365,997	0.2
	American Funds 2050 TD Fund R6 (RFITX)	2,613,811	1.3
	American Funds 2045 TD Fund R6 (RFHTX)	1,861,545	1.0
	American Funds 2040 TD Fund R6 (RFGTX)	5,068,923	2.6
	American Funds 2035 TD Fund R6 (RFFTX)	1,739,971	0.9
	American Funds 2030 TD Fund R6 (RFETX)	4,853,170	2.5
	American Funds 2025 TD Fund R6 (RFDTX)	1,571,620	0.8
	American Funds 2020 TD Fund R6 (RRCTX)	1,525,011	0.8
	American Funds 2015 TD Fund R6 (RFJTX)	40,377	0.0
	American Funds 2010 TD Fund R6 (RFTTX)	227,158	0.1
	Voya Fixed Account	69,570,955	35.8
	Loan Account	2,355,599	1.2



Asset Allocation 401(a) Total Plan

As of June 30, 2023

Asset Allocation Attributes						
	Jun-2	023	Mar-2	023	Dec-2	022
	(\$)	%	(\$)	%	(\$)	%
Total 401(a) Fund	13,783,278	100.00	13,192,698	100.00	12,950,276	100.00
International Equity						
American Funds EuroPacific Growth (RERGX)	345,140	2.50	334,299	2.53	300,579	2.32
Domestic Equity						
Allspring Small Co Growth (WSCRX)	132,985	0.96	127,037	0.96	118,018	0.91
Vanguard Small Cap Index (VSMAX)	306,790	2.23	293,483	2.22	303,561	2.34
AMG Managers Skyline Special Equities (SKSEX)	369,271	2.68	365,817	2.77	349,390	2.70
Hartford Mid Cap (HIMCX)	617,539	4.48	603,143	4.57	584,517	4.51
Vanguard Mid Cap Index (VIMAX)	529,754	3.84	486,939	3.69	487,803	3.77
American Funds Growth Fund of America (RGAGX)	1,031,471	7.48	924,808	7.01	845,276	6.53
Allspring Disciplined US Core (EVSIX)	882,010	6.40	810,013	6.14	751,070	5.80
Vanguard Institutional Index (VINIX)	1,762,261	12.79	1,556,640	11.80	1,449,158	11.19
American Century Equity Income (AEUDX)	524,075	3.80	513,044	3.89	510,306	3.94
Balanced Fund						
American Funds American Balanced (RLBGX)	921,292	6.68	879,835	6.67	847,232	6.54
Fixed Income						
PIMCO High Yield (PHIYX)	117,312	0.85	114,715	0.87	115,099	0.89
PIMCO Foreign Bond USD-Hedged (PFORX)	74,931	0.54	73,519	0.56	76,443	0.59
Hartford Total Return Bond (HIABX)	188,079	1.36	187,016	1.42	184,988	1.43
Cash						
Voya Fixed Account	4,624,018	33.55	4,644,118	35.20	4,762,088	36.77
Loan Account	106,837	0.78	83,813	0.64	134,815	1.04

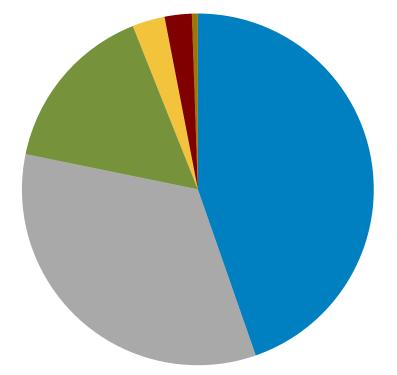


Asset Allocation 401(a) Target Date Funds As of June 30, 2023

	Jun-2	023	Mar-2	023	Dec-2	Dec-2022	
	(\$)	%	(\$)	%	(\$)	%	
American Funds 2060 TD Fund R6 (RFUTX)	21,058	1.69	18,837	1.58	16,542	1.46	
American Funds 2055 TD Fund R6 (RFKTX)	-	0.00	-	0.00	-	0.00	
American Funds 2050 TD Fund R6 (RFITX)	81,150	6.49	72,626	6.08	88,351	7.82	
American Funds 2045 TD Fund R6 (RFHTX)	12,189	0.98	10,146	0.85	8,021	0.71	
American Funds 2040 TD Fund R6 (RFGTX)	209,506	16.77	192,002	16.07	173,057	15.32	
American Funds 2035 TD Fund R6 (RFFTX)	216,985	17.37	195,193	16.34	170,768	15.11	
American Funds 2030 TD Fund R6 (RFETX)	430,191	34.43	413,108	34.59	390,449	34.56	
American Funds 2025 TD Fund R6 (RFDTX)	201,374	16.12	196,163	16.42	185,841	16.45	
American Funds 2020 TD Fund R6 (RRCTX)	-	0.00	-	0.00	-	0.00	
American Funds 2015 TD Fund R6 (RFJTX)	6	0.00	6	0.00	7	0.00	
American Funds 2010 TD Fund R6 (RFTTX)	77,054	6.17	96,379	8.07	96,898	8.58	
Target Date Funds Total	1,249,514	100.00	1,194,460	100.00	1,129,934	100.00	



Jun-2023 : \$13,783,278	Allocation		
		Market Value	Allocation
	US Equity	6,156,156	44.7
	Cash	4,624,018	33.5
	US Balanced	2,170,805	15.7
	US Fixed Income	412,228	3.0
	International Equity	345,140	2.5
	International Fixed Income	74,931	0.5





## Asset Allocation by Asset Class 401(a) Total Plan As of June 30, 2023

Jun-2023 : \$13,783,278	Allocation		••• /·
		Market Value	Allocation
	American Funds EuroPacific Growth (RERGX)	345,140	2.5
	Allspring Small Co Growth (WSCRX)	132,985	1.0
	Vanguard Small Cap Index (VSMAX)	306,790	2.2
	AMG Managers Skyline Special Equities (SKSEX)	369,271	2.7
	Hartford Mid Cap (HIMCX)	617,539	4.5
	Vanguard Mid Cap Index (VIMAX)	529,754	3.8
	American Funds Growth Fund of America (RGAGX)	1,031,471	7.5
	Allspring Disciplined US Core (EVSIX)	882,010	6.4
	Vanguard Institutional Index (VINIX)	1,762,261	12.8
	American Century Equity Income (AEUDX)	524,075	3.8
	American Funds American Balanced (RLBGX)	921,292	6.7
	PIMCO High Yield (PHIYX)	117,312	0.9
	PIMCO Foreign Bond USD-Hedged (PFORX)	74,931	0.5
	Hartford Total Return Bond (HIABX)	188,079	1.4
	American Funds 2060 TD Fund R6 (RFUTX)	21,058	0.2
	American Funds 2055 TD Fund R6 (RFKTX)	-	0.0
	American Funds 2050 TD Fund R6 (RFITX)	81,150	0.6
	American Funds 2045 TD Fund R6 (RFHTX)	12,189	0.1
	American Funds 2040 TD Fund R6 (RFGTX)	209,506	1.5
	American Funds 2035 TD Fund R6 (RFFTX)	216,985	1.6
	American Funds 2030 TD Fund R6 (RFETX)	430,191	3.1
	American Funds 2025 TD Fund R6 (RFDTX)	201,374	1.5
	American Funds 2020 TD Fund R6 (RRCTX)	-	0.0
	American Funds 2015 TD Fund R6 (RFJTX)	6	0.0
	American Funds 2010 TD Fund R6 (RFTTX)	77,054	0.6
	Voya Fixed Account	4,624,018	33.5
	Loan Account	106,837	0.8



## **Comparative Performance** 457 & 401(a) Trailing Returns

As of June 30, 2023

Comparative Performance														
	Q	TR	۲٦	D	1 \	/R	3	YR	5 \	/R	7`	YR	10	YR
International Equity														
American Funds EuroPacific Growth (RERGX)	2.16	(88)	12.25	(50)	15.80	(70)	5.47	(92)	4.29	(39)	7.40	(24)	6.30	(2)
MSCI EAFE (Net) Index	2.95	(69)	11.67	(60)	18.77	(34)	8.93	(43)	4.39	(36)	6.88	(33)	5.41	(23)
IM International Large Cap Core Equity (MF) Median	3.20	(00)	12.17	(00)	17.77	(0.)	8.52	()	3.90	(00)	6.24	(00)	4.76	()
Domestic Equity														
Allspring Small Co Growth (WSCRX)	5.20	(46)	12.66	(38)	13.75	(59)	10.89	(22)	6.42	(44)	11.02	(46)	N/A	
Russell 2000 Growth Index	7.05	(17)	13.55	(25)	18.53	(22)	6.10	(60)	4.22	(83)	9.31	(71)	8.83	(65)
IM U.S. Small Cap Growth Equity (MF) Median	5.05		11.51	, í	14.92		7.19		6.15		10.66		9.34	
Vanguard Small Cap Index (VSMAX)	5.32	(23)	9.26	(24)	14.89	(25)	12.53	(74)	6.59	(20)	9.68	(23)	9.45	(16)
Vanguard Spliced Small Cap Index	5.29	(23)	9.19	(25)	14.78	(26)	12.49	(74)	6.55	(20)	9.65	(23)	9.43	(17)
IM U.S. Small Cap Core Equity (MF) Median	3.95		6.98		12.22		14.77		5.01		8.56		8.19	
AMG Managers Skyline Special Equities (SKSEX)	0.97	(96)	5.05	(44)	8.77	(58)	16.71	(75)	4.51	(59)	7.64	(70)	7.52	(51)
Russell 2000 Value Index	3.18	(64)	2.50	(76)	6.01	(83)	15.43	(89)	3.54	(76)	7.70	(69)	7.29	(56)
IM U.S. Small Cap Value Equity (MF) Median	3.67		4.42		9.71		19.10		4.94		8.35		7.54	
Hartford Mid Cap (HIMCX)	2.42	(93)	8.80	(30)	12.12	(57)	6.05	(100)	5.31	(93)	9.48	(35)	10.11	(21)
Russell Midcap Index	4.76	(42)	9.01	(28)	14.92	(25)	12.50	(73)	8.46	(27)	10.12	(20)	10.32	(16)
IM U.S. Mid Cap Core Equity (MF) Median	4.65		7.22		12.82		13.58		7.39		8.98		8.68	
/anguard Mid Cap Index (VIMAX)	4.76	(42)	8.81	(30)	13.71	(42)	11.95	(83)	8.59	(25)	10.29	(17)	10.43	(13)
Vanguard Spliced Mid Cap Index	4.75	(42)	8.80	(30)	13.71	(42)	11.97	(82)	8.60	(25)	10.31	(17)	10.46	(12)
IM U.S. Mid Cap Core Equity (MF) Median	4.65		7.22		12.82		13.58		7.39		8.98		8.68	
American Funds Growth Fund of America (RGAGX)	10.75	(80)	23.23	(77)	22.74	(69)	9.78	(52)	10.21	(82)	13.55	(76)	12.98	(71)
Russell 1000 Growth Index	12.81	(45)	29.02	(40)	27.11	(30)	13.73	(6)	15.14	(7)	16.91	(9)	15.74	(7)
IM U.S. Large Cap Growth Equity (MF) Median	12.69		27.77		25.04		9.86		12.06		14.54		13.74	
Allspring Disciplined US Core (EVSIX)	9.35	(20)	17.76	(19)	19.58	(34)	15.28	(9)	11.77	(37)	12.65	(43)	12.60	(24)
S&P 500 Index	8.74	(34)	16.89	(30)	19.59	(34)	14.60	(20)	12.31	(21)	13.38	(21)	12.86	(15)
IM U.S. Large Cap Core Equity (MF) Median	8.23		15.42		18.44		13.41		11.37		12.45		11.84	
/anguard Institutional Index (VINIX)	8.73	(34)	16.87	(31)	19.55	(34)	14.57	(21)	12.28	(22)	13.35	(22)	12.83	(16)
S&P 500 Index	8.74	(34)	16.89	(30)	19.59	(34)	14.60	(20)	12.31	(21)	13.38	(21)	12.86	(15)
IM U.S. Large Cap Core Equity (MF) Median	8.23		15.42		18.44		13.41		11.37		12.45		11.84	
American Century Equity Income (AEUDX)	2.55	(87)	3.10	(68)	8.52	(78)	10.50	(98)	7.60	(78)	8.05	(90)	N/A	
Russell 1000 Value Index	4.07	(56)	5.12	(43)	11.54	(54)	14.30	(51)	8.11	(65)	8.94	(74)	9.22	(57)
IM U.S. Large Cap Value Equity (MF) Median	4.40		4.40		12.15		14.32		8.57		9.77		9.44	

Returns for periods greater than one year are annualized. Returns are expressed as percentages. \*Returns are MassMutual Guaranteed Account until 1Q2019 then the Voya Fixed account thereafter.



**Comparative Performance** 

457 & 401(a) Trailing Returns

As of June 30, 2023

	Q	ſR	Y	ГD	1`	YR	3	YR	5 \	ŕR	7 `	YR	10	YR
Balanced Fund														
American Funds 2060 TD Fund R6 (RFUTX)	5.99	(16)	12.75	(33)	15.94	(20)	8.88	(78)	7.85	(13)	9.84	(N/A)	N/A	
S&P Target Date 2060 Index	5.12	(71)	11.91	(63)	15.73	(25)	10.66	(19)	7.56	(25)	9.39	(N/A)	8.84	(N/A)
IM Mixed-Asset Target 2065+ (MF) Median	5.34		12.24		14.79		9.82		7.55		N/A		N/A	
American Funds 2055 TD Fund R6 (RFKTX)	5.93	(12)	12.67	(25)	15.89	(11)	8.93	(82)	7.90	(8)	9.88	(4)	9.50	(1)
S&P Target Date 2055 Index	5.06	(69)	11.80	(68)	15.64	(16)	10.69	(8)	7.52	(28)	9.28	(31)	8.78	(22)
IM Mixed-Asset Target 2055 (MF) Median	5.30		12.17		14.67		9.66		7.18		9.01		8.30	
American Funds 2050 TD Fund R6 (RFITX)	5.68	(21)	12.18	(39)	15.38	(14)	9.06	(73)	7.98	(4)	9.94	(1)	9.55	(1)
S&P Target Date 2050 Index	5.06	(67)	11.78	(61)	15.51	(11)	10.54	(8)	7.47	(28)	9.16	(32)	8.67	(24)
IM Mixed-Asset Target 2050 (MF) Median	5.27		11.99		14.47		9.59		7.14		8.89		8.21	
American Funds 2045 TD Fund R6 (RFHTX)	5.50	(12)	11.71	(43)	14.87	(16)	9.12	(60)	7.99	(3)	9.90	(1)	9.52	(1)
S&P Target Date 2045 Index	4.87	(64)	11.50	(53)	15.04	(12)	10.20	(14)	7.33	(31)	8.92	(41)	8.45	(31)
IM Mixed-Asset Target 2045 (MF) Median	5.12		11.55		13.93		9.40		7.06		8.79		8.03	
American Funds 2040 TD Fund R6 (RFGTX)	5.14	(13)	11.12	(40)	14.15	(13)	8.96	(32)	7.89	(1)	9.72	(1)	9.39	(1)
S&P Target Date 2040 Index	4.47	(61)	10.82	(53)	13.92	(17)	9.48	(12)	7.00	(27)	8.54	(39)	8.15	(36)
IM Mixed-Asset Target 2040 (MF) Median	4.60		10.87		12.88		8.59		6.64		8.38		7.82	
American Funds 2035 TD Fund R6 (RFFTX)	4.10	(30)	9.40	(61)	11.80	(22)	7.99	(19)	7.36	(1)	9.14	(1)	8.97	(1)
S&P Target Date 2035 Index	3.88	(49)	9.79	(46)	12.37	(8)	8.35	(8)	6.48	(28)	7.93	(42)	7.67	(32)
IM Mixed-Asset Target 2035 (MF) Median	3.84		9.64		11.06		7.43		6.11		7.73		7.33	
American Funds 2030 TD Fund R6 (RFETX)	3.08	(42)	7.75	(63)	9.30	(36)	6.44	(17)	6.38	(3)	7.88	(3)	8.10	(1)
S&P Target Date 2030 Index	3.19	(34)	8.54	(42)	10.63	(4)	6.87	(5)	5.80	(24)	7.12	(38)	7.02	(27)
IM Mixed-Asset Target 2030 (MF) Median	3.01		8.36		8.96		5.91		5.35		6.81		6.60	
American Funds 2025 TD Fund R6 (RFDTX)	2.14	(54)	5.91	(71)	7.13	(52)	5.20	(20)	5.73	(4)	6.77	(10)	7.23	(2)
S&P Target Date 2025 Index	2.52	(34)	7.36	(41)	8.95	(3)	5.51	(8)	5.17	(26)	6.34	(35)	6.38	(24)
IM Mixed-Asset Target 2025 (MF) Median	2.19		7.12		7.22		4.50		4.68		5.91		5.84	
American Funds 2020 TD Fund R6 (RRCTX)	1.51	(84)	4.66	(91)	5.77	(77)	4.55	(10)	5.10	(7)	5.82	(21)	6.34	(4)
S&P Target Date 2020 Index	2.25	(30)	6.88	(35)	7.86	(4)	4.12	(38)	4.49	(47)	5.49	(50)	5.70	(44)
IM Mixed-Asset Target 2020 (MF) Median	1.98		6.55		6.58		3.93		4.42		5.47		5.58	
American Funds 2015 TD Fund R6 (RFJTX)	1.20	(85)	4.07	(90)	5.03	(79)	4.38	(6)	4.89	(6)	5.30	(28)	5.83	(3)
S&P Target Date 2015 Index	1.92	(30)	6.27	(34)	7.06	(8)	3.70	(27)	4.31	(37)	5.05	(48)	5.25	(51)
IM Mixed-Asset Target 2015 (MF) Median	1.63		5.90		5.80		3.34		4.13		5.01		5.27	
American Funds 2010 TD Fund R6 (RFTTX)	0.81	(71)	3.42	(93)	4.24	(53)	3.95	(6)	4.59	(4)	4.92	(18)	5.38	(3)
S&P Target Date 2010 Index	1.72	(29)	5.91	(25)	6.68	(7)	3.02	(41)	4.02	(51)	4.51	(57)	4.70	(53)
IM Mixed-Asset Target 2010 (MF) Median	1.04		5.13		4.26		2.83		4.02		4.55		4.71	

Returns for periods greater than one year are annualized. Returns are expressed as percentages. \*Returns are MassMutual Guaranteed Account until 1Q2019 then the Voya Fixed account thereafter.



Comparative Performance 457 & 401(a) Trailing Returns As of June 30, 2023

	Q	R	YI	D	1 \	/R	3	ΥR	5 ٦	′R	7	YR	10	YR
American Funds American Balanced (RLBGX)	3.99	(36)	6.98	(57)	8.90	(48)	7.13	(38)	7.06	(17)	7.93	(28)	8.35	(11)
American Balanced Fund Hybrid	3.90	(37)	9.32	(35)	9.18	(46)	5.23	(57)	6.79	(22)	7.04	(40)	7.32	(31)
IM All Balanced (MF) Median	3.08		7.58		8.64		5.90		5.15		6.25		6.08	
Fixed Income														
PIMCO High Yield (PHIYX)	1.05	(77)	5.07	(34)	8.93	(27)	2.27	(68)	3.04	(34)	3.91	(42)	3.99	(24)
ICE BofA U.S. High Yield Index	1.63	(33)	5.42	(17)	8.87	(28)	3.21	(39)	3.18	(28)	4.41	(20)	4.34	(12)
IM U.S. High Yield Bonds (MF) Median	1.36		4.78		8.22		2.81		2.70		3.74		3.57	
PIMCO Foreign Bond USD-Hedged (PFORX)	0.68	(23)	3.55	(22)	1.97	(25)	-1.44	(6)	1.05	(6)	1.65	(2)	3.13	(1)
Bloomberg Global Aggregate	-1.53	(58)	1.43	(50)	-1.32	(74)	-4.96	(66)	-1.09	(40)	-0.90	(37)	0.20	(30)
IM International Fixed Income (MF) Median	-0.95		1.24		0.27		-4.30		-2.28		-1.30		-0.72	
Hartford Total Return Bond (HIABX)	-0.52	(15)	2.70	(19)	0.78	(8)	-3.36	(29)	1.18	(20)	1.21	(7)	2.08	(7)
Blmbg. U.S. Aggregate Index	-0.84	(54)	2.09	(67)	-0.94	(55)	-3.97	(64)	0.77	(46)	0.44	(57)	1.52	(48)
IM U.S. Broad Market Core Fixed Income (MF) Median	-0.82		2.27		-0.88		-3.71		0.72		0.51		1.50	
Cash														
Voya Fixed Account*	0.48	(76)	0.97	(74)	1.85	(67)	1.81	(36)	2.20	(12)	2.61	(1)	3.03	(1)
Morningstar US CIT Stable Value	0.70	(22)	1.35	(23)	2.40	(23)	2.02	(13)	2.18	(13)	2.12	(13)	2.00	(17)
IM U.S. GIC/Stable Value (SA+CF) Median	0.62		1.21		2.10		1.66		1.91		1.84		1.74	



**Comparative Performance** 457 & 401(a) Calendar Returns

As of June 30, 2023

Comparative Performance																
	2022	2021	2020	20	)19	20	18	2017	20	016	20	15	20	14	20	13
International Equity																
American Funds EuroPacific Growth (RERGX)	-22.72 (100)	2.84 (96)	25.27 (1	) 27.40	(4)	-14.91	(49)	31.17 (10	,	· · /	-0.48	(22)	-2.29	. ,		• •
MSCI EAFE (Net) Index	-14.45 (39)	11.26 (39)	7.82 (6	· ·	(52)	-13.79	(25)	25.03 (50		(37)	-0.81	(29)	-4.90	(27)	22.78	(16)
IM International Large Cap Core Equity (MF) Median	-15.06	10.74	9.07	22.06		-15.00		25.00	-0.04		-1.95		-6.01		20.42	
Domestic Equity																
Allspring Small Co Growth (WSCRX)	-24.21 (28)	15.68 (30)	•	67) 26.55	• •	-3.57	(30)	20.68 (51	, ,	(72)	-4.33	(71)	N/A		N/A	
Russell 2000 Growth Index	-26.36 (44)	2.83 (82)	34.63 (5	56) 28.48	(47)	-9.31	(73)	22.17 (43	) 11.32	(43)	-1.38	(34)	5.60	(22)	43.30	(45)
IM U.S. Small Cap Growth Equity (MF) Median	-27.54	10.51	36.57	27.63		-5.58		20.74	10.08		-2.36		2.77		42.48	
Vanguard Small Cap Index (VSMAX)	-17.61 (72)	17.73 (84)	19.11 (1	7) 27.37	(16)	-9.31	(18)	16.24 (14	) 18.30	(80)	-3.64	(40)	7.50	(13)	37.81	(43)
Vanguard Spliced Small Cap Index	-17.64 (72)	17.71 (84)	19.07 (1	7) 27.35	(17)	-9.33	(18)	16.24 (14	) 18.26	(80)	-3.68	(40)	7.54	(13)	37.77	(44)
IM U.S. Small Cap Core Equity (MF) Median	-15.77	25.12	9.89	23.94		-12.71		12.09	21.66		-4.35		4.73		36.85	
AMG Managers Skyline Special Equities (SKSEX)	-15.33 (97)	32.93 (43)	3.29 (5	54) 28.64	(7)	-19.00	(80)	8.39 (51	) 21.32	(84)	-6.05	(33)	4.02	(38)	51.59	(3)
Russell 2000 Value Index	-14.48 (96)	28.27 (73)	4.63 (3	35) 22.39	• •	-12.86	(23)	7.84 (60		(17)	-7.47	(57)	4.22	(35)	34.52	• •
IM U.S. Small Cap Value Equity (MF) Median	-11.09	31.97	3.57	21.05		-16.08		8.46	26.70		-7.05		3.41		36.46	
Hartford Mid Cap (HIMCX)	-24.30 (95)	9.91 (100)	25.10 (7	7) 32.87	(16)	-7.44	(12)	24.47 (2)	11.98	(72)	1.60	(6)	11.37	(27)	39.82	(14)
Russell Midcap Index	-17.32 (88)	22.58 (68)		, 30.54	• •	-9.06	• •	18.52 (25		• •	-2.44	(31)	13.22	· · /	34.76	• •
IM U.S. Mid Cap Core Equity (MF) Median	-13.21	25.73	8.44	28.59		-11.64		14.94	14.51		-3.74		8.88		34.49	
Vanguard Mid Cap Index (VIMAX)	-18.71 (93)	24.51 (60)	18.24 (1	15) 31.03	(27)	-9.23	(22)	19.25 (19	) 11.22	(76)	-1.34	(23)	13.76	(6)	35.15	(47)
Vanguard Spliced Mid Cap Index	-18.68 (93)	24.52 (60)	18.24 (1	(15) 31.09	(27)	-9.22	(22)	19.30 (19	, ) 11.25	(76)	-1.28	(23)	13.83	• •	35.21	(46)
IM U.S. Mid Cap Core Equity (MF) Median	-13.21	25.73	8.44	28.59		-11.64		14.94	14.51		-3.74		8.88		34.49	
American Funds Growth Fund of America (RGAGX)	-30.49 (38)	19.69 (67)	38.28 (3	36) 28.54	(89)	-2.60	(64)	26.53 (74	) 8.82	(2)	5.70	(49)	9.63	(61)	34.29	(48)
Russell 1000 Growth Index	-29.14 (27)	27.60 (17)		34) 36.39	· · /	-1.51	` '	30.21 (39			5.67	(49)	13.05	` '		· · /
IM U.S. Large Cap Growth Equity (MF) Median	-31.30	22.37	35.62	33.26	. ,	-1.22	. ,	29.28	2.21		5.61		10.49	. ,	34.12	
Allspring Disciplined US Core (EVSIX)	-17.82 (42)	30.94 (8)	16.47 (6	32) 29.04	(68)	-8.08	(88)	20.88 (59	) 12.09	(18)	2.53	(22)	15.69	(4)	33.97	(21)
S&P 500 Index	-18.11 (45)	28.71 (25)	(	50) 31.49	• •	-4.38	• •	21.83 (45	, ,	• •	1.38	(35)	13.69	• •	32.39	` '
IM U.S. Large Cap Core Equity (MF) Median	-18.72	26.95	18.39	30.70	(/	-5.45	(- )	21.46	9.70	( - /	0.54	(/	11.51	( - /	31.77	
Vanguard Institutional Index (VINIX)	-18.14 (46)	28.67 (26)	18.39 (5	50) 31.46	(37)	-4.42	(32)	21.79 (45	) 11.93	(20)	1.37	(35)	13.65	(18)	32.35	(38)
S&P 500 Index	-18.11 (45)	28.71 (25)		50) 31.49	(- )	-4.38	` '	21.83 (45	,	` '	1.38	(35)	13.69	• •		• •
IM U.S. Large Cap Core Equity (MF) Median	-18.72	26.95	18.39	30.70	( )	-5.45	X- 7	21.46	9.70	x -7	0.54	x/	11.51	x - 7	31.77	( - )
American Century Equity Income (AEUDX)	-2.90 (18)	17.27 (98)	1.43 (8	30) 24.64	(74)	-4.17	(18)	13.83 (82	) 19.88	(6)	0.94	(6)	12.84	(14)	N/A	
Russell 1000 Value Index	-7.54 (66)	25.16 (63)	- (-	50) <u>24.64</u> 51) <u>26.54</u>	· · /	-8.27	( - )	13.66 (82	/	· /	-3.83	(69)	13.45	( )	32.53	(44)
IM U.S. Large Cap Value Equity (MF) Median	-6.10	25.96	3.82	26.50	()	-8.61	( - )	16.95	13.85	· /	-3.00	(/	10.82	x - 7	32.11	· /



Returns for periods greater than one year are annualized. Returns are expressed as percentages. \*Returns are MassMutual Guaranteed Account until 1Q2019 then the Voya Fixed account thereafter.



## **Comparative Performance**

457 & 401(a) Calendar Returns

As of June 30, 2023

	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Balanced Fund										
American Funds 2060 TD Fund R6 (RFUTX)	-19.66 (91)	17.19 (49)	19.44 (1)	25.01 (61)	-5.64 (1)	22.49 (N/A)	8.41 (N/A)	N/A	N/A	N/A
S&P Target Date 2060 Index	-16.01 (7)	18.05 (34)	13.99 (73)	24.73 (84)	-7.95 (7)	20.75 (N/A)	10.08 (N/A)	-0.66 (N/A)	5.64 (N/A)	24.96 (N/A)
IM Mixed-Asset Target 2065+ (MF) Median	-18.58	17.15	16.23	26.28	-9.37	N/A	N/A	N/A	N/A	N/A
American Funds 2055 TD Fund R6 (RFKTX)	-19.50 (88)	17.28 (46)	19.39 (7)	25.09 (40)	-5.65 (3)	22.63 (5)	8.30 (48)	0.63 (1)	7.01 (22)	26.59 (1)
S&P Target Date 2055 Index	-15.97 (10)	18.19 (25)	13.86 (72)	24.48 (62)	-7.97 (38)	20.48 (65)	9.94 (7)	-0.54 (20)	5.64 (45)	24.96 (26)
IM Mixed-Asset Target 2055 (MF) Median	-18.31	17.19	15.61	24.82	-8.51	21.11	8.25	-1.67	5.43	23.21
American Funds 2050 TD Fund R6 (RFITX)	-18.89 (68)	17.27 (42)	19.42 (6)	25.04 (38)	-5.61 (2)	22.61 (6)	8.33 (45)	0.65 (1)	7.02 (18)	26.65 (2)
S&P Target Date 2050 Index	-15.97 (11)	17.99 (27)	13.86 (65)	24.35 (60)	-7.94 (35)	20.18 (67)	9.74 (14)	-0.47 (16)	5.69 (46)	24.13 (33)
IM Mixed-Asset Target 2050 (MF) Median	-18.30	17.00	15.52	24.67	-8.55	20.76	8.11	-1.64	5.62	23.08
American Funds 2045 TD Fund R6 (RFHTX)	-18.18 (52)	17.18 (37)	19.21 (5)	24.68 (48)	-5.58 (3)	22.44 (6)	8.27 (47)	0.64 (1)	7.09 (14)	26.51 (2)
S&P Target Date 2045 Index	-15.84 (12)	17.52 (26)	13.66 (69)	24.02 (63)	-7.74 (36)	19.56 (72)	9.54 (14)	-0.46 (17)	5.67 (43)	23.14 (46)
IM Mixed-Asset Target 2045 (MF) Median	-18.15	16.69	15.35	24.60	-8.21	20.64	8.15	-1.64	5.56	23.07
American Funds 2040 TD Fund R6 (RFGTX)	-17.55 (42)	16.83 (15)	18.77 (5)	24.40 (29)	-5.52 (3)	21.98 (4)	8.17 (41)	0.58 (1)	6.96 (16)	26.66 (2)
S&P Target Date 2040 Index	-15.56 (12)	16.55 (21)	13.37 (69)	23.37 (57)	-7.41 (34)	18.87 (70)	9.23 (16)	-0.40 (15)	5.69 (42)	22.10 (46)
IM Mixed-Asset Target 2040 (MF) Median	-17.85	15.68	14.73	23.63	-7.96	19.71	7.96	-1.66	5.41	21.67
American Funds 2035 TD Fund R6 (RFFTX)	-16.24 (30)	15.54 (13)	17.55 (6)	23.29 (22)	-5.14 (4)	21.04 (3)	8.00 (44)	0.59 (1)	7.02 (11)	25.97 (1)
S&P Target Date 2035 Index	-14.99 (12)	14.93 (20)	12.79 (74)	22.18 (52)	-6.88 (44)	17.78 (71)	8.85 (15)	-0.35 (15)	5.69 (41)	20.84 (49)
IM Mixed-Asset Target 2035 (MF) Median	-17.04	13.84	14.14	22.27	-7.27	18.72	7.75	-1.52	5.40	20.79
American Funds 2030 TD Fund R6 (RFETX)	-14.50 (23)	13.16 (13)	15.16 (14)	20.06 (52)	-4.16 (5)	18.40 (11)	7.71 (38)	0.47 (1)	7.06 (7)	25.64 (1)
S&P Target Date 2030 Index	-13.96 (16)	12.61 (26)	11.91 (65)	20.38 (48)	-5.99 (42)	16.19 (60)	8.35 (20)	-0.30 (11)	5.64 (36)	19.14 (41)
IM Mixed-Asset Target 2030 (MF) Median	-16.21	11.46	12.85	20.13	-6.34	16.91	7.31	-1.47	5.19	17.89
American Funds 2025 TD Fund R6 (RFDTX)	-12.74 (15)	11.44 (14)	13.67 (23)	17.85 (57)	-3.47 (6)	15.33 (37)	7.36 (31)	0.13 (3)	6.66 (11)	23.76 (1)
S&P Target Date 2025 Index	-13.13 (20)	10.67 (27)	11.22 (63)	18.38 (47)	-5.02 (43)	14.55 (55)	7.82 (17)	-0.25 (11)	5.56 (39)	17.03 (35)
IM Mixed-Asset Target 2025 (MF) Median	-15.31	9.71	12.12	18.21	-5.25	14.95	6.87	-1.37	5.22	15.86
American Funds 2020 TD Fund R6 (RRCTX)	-11.01 (1)	10.64 (6)	10.99 (47)	15.59 (58)	-2.69 (4)	12.87 (46)	7.05 (28)	0.19 (2)	6.74 (3)	18.71 (1)
S&P Target Date 2020 Index	-12.81 (19)	8.76 (48)	10.24 (57)	16.52 (42)	-4.16 (41)	12.80 (47)	7.22 (25)	-0.19 (7)	5.67 (23)	14.76 (28)
IM Mixed-Asset Target 2020 (MF) Median	-14.36	8.71	10.89	16.00	-4.52	12.67	6.37	-1.43	4.72	11.93
American Funds 2015 TD Fund R6 (RFJTX)	-10.25 (1)	10.27 (3)	9.96 (63)	14.94 (59)	-2.72 (5)	11.19 (53)	7.55 (9)	-0.62 (19)	6.64 (4)	15.72 (1)
S&P Target Date 2015 Index	-12.16 (22)	8.01 (50)	10.28 (61)	15.40 (47)	-3.67 (44)	11.39 (49)	6.56 (45)	-0.16 (8)	5.49 (26)	12.16 (37)
IM Mixed-Asset Target 2015 (MF) Median	-13.67	7.98	11.36	15.26	-3.88	11.27	6.39	-1.30	4.50	10.41
American Funds 2010 TD Fund R6 (RFTTX)	-9.15 (1)	9.32 (1)	9.25 (74)	13.88 (57)	-2.49 (9)	10.41 (41)	7.45 (3)	-0.84 (27)	6.79 (1)	12.55 (1)
S&P Target Date 2010 Index	-11.44 (16)	6.54 (50)	9.95 (59)	14.30 (49)	-3.10 (25)	9.95 (66)	5.82 (59)	-0.21 (7)	5.07 (18)	9.42 (46)
IM Mixed-Asset Target 2010 (MF) Median	-12.72	5.80	10.43	14.19	-3.58	10.24	6.06	-1.20	4.11	8.67

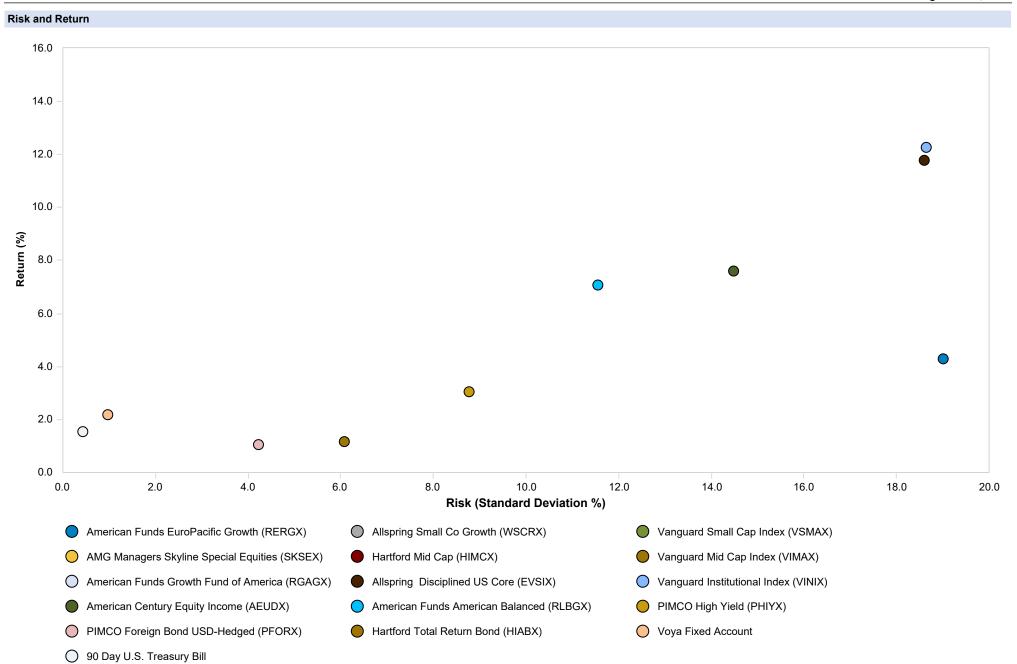
Returns for periods greater than one year are annualized. Returns are expressed as percentages. \*Returns are MassMutual Guaranteed Account until 1Q2019 then the Voya Fixed account thereafter.

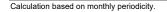


## Comparative Performance 457 & 401(a) Calendar Returns As of June 30, 2023

	20	22	20	21	20	20	20	19	<b>20</b> <sup>2</sup>	18	20	17	20	16	20	15	20	14	20	)13
American Funds American Balanced (RLBGX)	-11.83	(19)	16.11	(25)	11.22	(57)	19.55	(45)	-2.42	(7)	15.84	(39)	8.90	(18)	2.03	(3)	9.22	(6)	22.12	(20)
American Balanced Fund Hybrid	-15.26	(48)	12.80	(46)	13.66	(35)	19.89	(42)	-1.90	(5)	12.37	(62)	7.38	(40)	1.21	(4)	9.85	(4)	14.08	(56)
IM All Balanced (MF) Median	-15.51		12.00		12.01		18.64		-6.14		14.08		6.80		-1.58		4.75		15.42	
Fixed Income																				
PIMCO High Yield (PHIYX)	-10.76	(46)	4.06	(73)	5.31	(53)	14.94	(24)	-2.49	(31)	7.02	(35)	12.68	(70)	-1.88	(21)	3.31	(13)	5.77	(74)
ICE BofA U.S. High Yield Index	-11.22	(59)	5.36	(40)	6.17	(34)	14.41	(36)	-2.27	(27)	7.48	(21)	17.49	(5)	-4.64	(61)	2.50	(23)	7.42	(32)
IM U.S. High Yield Bonds (MF) Median	-10.97		4.93		5.43		13.83		-2.97		6.63		13.80		-3.98		1.50		6.72	
PIMCO Foreign Bond USD-Hedged (PFORX)	-9.84	(18)	-1.67	(8)	6.15	(57)	7.35	(34)	2.63	(7)	3.53	(69)	7.03	(7)	0.40	(9)	11.16	(3)	0.90	(17)
Bloomberg Global Aggregate	-16.25	(62)	-4.71	(41)	9.20	(28)	6.84	(42)	-1.19	(46)	7.39	(59)	2.09	(61)	-3.15	(24)	0.59	(52)	-2.60	(37)
IM International Fixed Income (MF) Median	-12.94		-5.39		6.55		6.64		-2.47		9.80		3.34		-5.82		0.63		-3.74	
Hartford Total Return Bond (HIABX)	-14.21	(70)	-0.95	(31)	9.03	(27)	10.65	(5)	-0.81	(61)	5.16	(5)	4.49	(11)	-0.59	(73)	5.89	(32)	-1.36	(28)
Blmbg. U.S. Aggregate Index	-13.01	(22)	-1.55	(60)	7.51	(73)	8.72	(53)	0.01	(18)	3.54	(54)	2.65	(62)	0.55	(20)	5.97	(27)	-2.02	(54)
IM U.S. Broad Market Core Fixed Income (MF) Median	-13.66		-1.33		8.16		8.76		-0.62		3.60		2.90		0.04		5.55		-1.96	
Cash																				
Voya Fixed Account*	1.47	(55)	1.73	(23)	2.19	(20)	2.97	(6)	3.38	(1)	3.67	(2)	3.94	(1)	4.00	(1)	4.00	(2)	4.00	(1)
Morningstar US CIT Stable Value	1.88	(18)	1.74	(22)	2.24	(15)	2.51	(21)	2.23	(16)	1.96	(20)	1.79	(34)	1.77	(33)	1.69	(42)	1.84	(30)
IM U.S. GIC/Stable Value (SA+CF) Median	1.54		1.43		2.01		2.30		2.00		1.68		1.60		1.45		1.38		1.47	







**American Funds Target Retirement R6** 

**Target Date Fund Universe Ranges** 

June 30, 2023

Asset Class	2065+	2060	2055	2050	2045	2040	2035	2030	2025	2020	2015	2010
Equity Range												
Maximum	100%	100%	100%	100%	95%	90%	85%	80%	70%	65%	50%	45%
Minimum	60%	50%	50%	50%	45%	45%	40%	35%	20%	15%	10%	5%
Fixed Income Range												
Maximum	20%	20%	25%	30%	35%	40%	50%	55%	70%	75%	75%	80%
Minimum	0%	0%	0%	0%	0%	5%	10%	15%	20%	25%	30%	40%
Cash Range												
Maximum	20%	20%	20%	30%	30%	30%	30%	30%	30%	35%	35%	35%
Minimum	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Other Range												
Maximum	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Minimum	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Target Date Universe	39	48	48	48	49	50	50	49	49	37	37	37

Morningstar Definitions:

1. Cash - The percentage of the fund's assets in cash. This figure is calculated separately for the short and long positions of the portfolio, and the sum of the asset allocation of each will not necessarily equal 100%.

2. Other - The percentage of the fund's assets in other instruments. This figure is calculated separately for the short and long positions of the portfolio, and the sum of the asset allocation of each will not necessarily equal 100%.

3. Target Date Universe - Based on the number of unique glide paths in the Morningstar Target Date Universe. Only one share class is selected to represent the fund manager.

American Funds Target Retirement R6

**Target Date Fund Asset Allocation** 

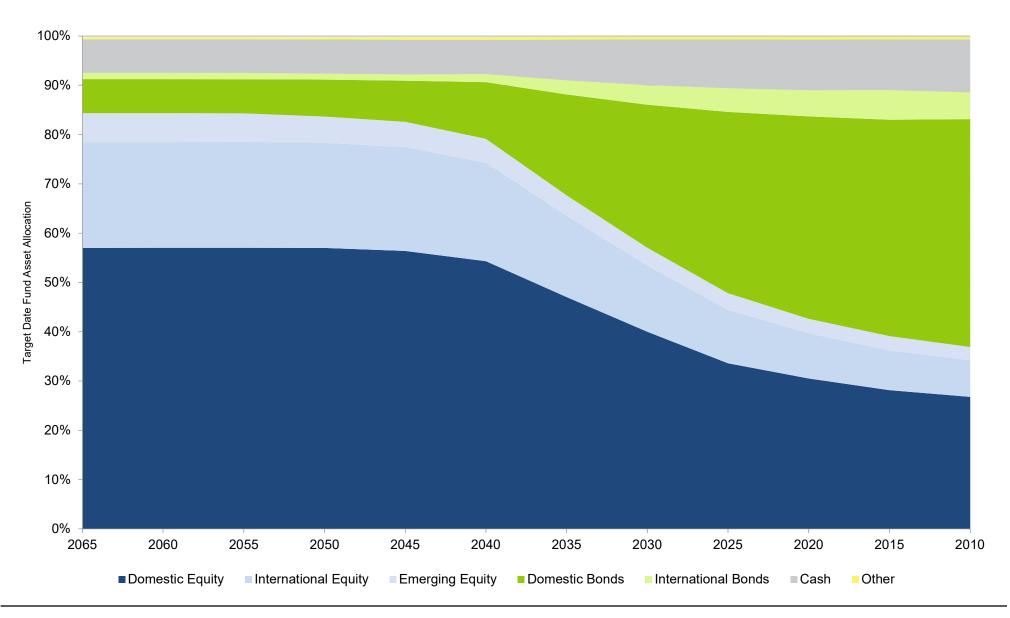
June 30, 2023

Asset Class	2065	2060	2055	2050	2045	2040	2035	2030	2025	2020	2015	2010
Total Equity	84%	84%	84%	84%	83%	79%	68%	57%	49%	44%	40%	38%
Domestic Equity	57%	57%	57%	57%	56%	54%	47%	40%	34%	31%	28%	27%
International Equity	21%	21%	22%	21%	21%	20%	16%	13%	11%	9%	8%	7%
Emerging Equity	6%	6%	6%	5%	5%	5%	4%	4%	3%	3%	3%	3%
Total Fixed Income	8%	8%	8%	9%	10%	13%	23%	33%	42%	46%	50%	52%
Domestic Bonds	7%	7%	7%	7%	8%	11%	20%	29%	37%	41%	44%	46%
International Bonds	1%	1%	1%	1%	1%	2%	3%	4%	5%	5%	6%	5%
Cash	7%	7%	7%	7%	7%	7%	8%	9%	10%	10%	10%	11%
Other	0%	0%	0%	0%	1%	1%	1%	1%	1%	1%	1%	1%
Total	100%	100%	100%	100%	100%	100%	100%	100%	101%	101%	101%	101%
Terminal Equity Date:		30 years after	Retirement									
Active/Passive/Blend Allocation:		Active										

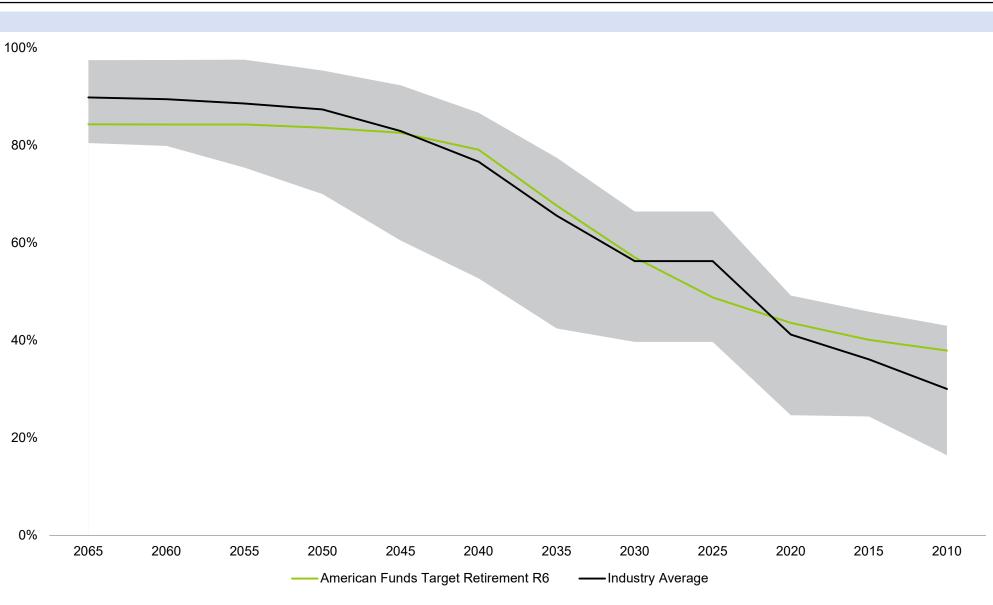
Morningstar Definitions:

1. Cash - The percentage of the fund's assets in cash. This figure is calculated separately for the short and long positions of the portfolio, and the sum of the asset allocation of each will not necessarily equal 100%.

2. Other - The percentage of the fund's assets in other instruments. This figure is calculated separately for the short and long positions of the portfolio, and the sum of the asset allocation of each will not necessarily equal 100%.







1. Industry Range (Gray Bar) - Represents the equity allocation range of the Target Date Funds in the universe.

2. Industry Average - The average equity allocation of the investments included in the universe.



#### Fee and Expense Summary

Voya requires 0.03% in revenue from the plan assets annually.

AndCo Consulting bills quarterly. The fee structure is \$60,000 per annum, paid in quarterly cash payments.

Plan Demographics				
Total Assets*	\$205,801,260			
Number of Participants with a Balance (active and terminated)	3,405			
Expense Type Estimates (annual)	Percent of Assets	Dollar Cost	% Cost	
Voya Recordkeeping fees	0.03%	\$61,740	0.03%	
AndCo Consulting fees		\$60,000	0.03%	
Total plan expenses		\$ 121,740	0.06%	
Revenue Sharing Estimates (annual)				
Revenue from participant annual fee	0.08%	\$164,641		
Net plan fee surplus (annual)		\$42,901	0.02%	
Annual average total plan recordkeeping and administrative cost per participant (gross)**		\$48.35		

#### \*Does not include outstanding loan values

\*\*All revenue sharing monies are reimbursed to the participant accounts that utilize those funds. This policy was implemented on 1/1/18.



### Weighted Fee and Revenue Sharing Evaluation

	Market Value	Expense Ratio	Expense Ratio Weighted Fee	Revenue Sharing	*Revenue Sharing \$
American Funds EuroPacific Growth (RERGX)	\$6,296,028	0.46%	\$28,962	0.00%	\$0
Allspring Small Co Growth (WSCRX)	\$2,560,378	0.86%	\$22,019	0.00%	\$0
Vanguard Small Cap Index (VSMAX)	\$4,286,607	0.05%	\$2,143	0.00%	\$0
AMG Managers Skyline Special Equities (SKSEX)	\$2,220,085	1.13%	\$25,087	0.25%	\$5,550
Hartford Mid Cap (HIMCX)	\$8,921,022	0.71%	\$63,339	0.25%	\$22,303
Vanguard Mid Cap Index (VIMAX)	\$7,541,088	0.05%	\$3,771	0.00%	\$0
AF Growth Fund of America (RGAGX)	\$18,451,511	0.29%	\$53,509	0.00%	\$0
Allspring Disciplined US Core (EVSIX)	\$14,151,299	0.48%	\$67,926	0.15%	\$21,227
Vanguard Institutional Index (VINIX)	\$24,042,929	0.04%	\$9,617	0.00%	\$0
American Century Equity Income (AEUDX)	\$7,456,647	0.57%	\$42,503	0.00%	\$0
American Funds Target 2060-2010 R6	\$21,462,422	0.33%	\$71,684	0.00%	\$0
American Funds American Balanced (RLBGX)	\$7,804,635	0.25%	\$19,512	0.00%	\$0
PIMCO High Yield (PHIYX)	\$2,447,630	0.57%	\$13,951	0.00%	\$0
PIMCO Foreign Bond USD-Hedged (PFORX)	\$520,620	0.63%	\$3,280	0.00%	\$0
Hartford Total Return Bond (HIABX)	\$3,443,386	0.50%	\$17,217	0.25%	\$8,608
Voya Fixed Account	\$74,194,973	0.00%	\$0	0.00%	\$0
TOTAL	\$205,801,260	0.22%	\$444,521	0.03%	\$57,688

\*All revenue sharing monies are reimbursed to the participant accounts that utilize those funds. This policy was implemented on 1/1/18.



Foundation for documented prudent investment process

**Benefits & Considerations** 

- Disciplined investment selection and monitoring process should help avoid excessive manager turnover and disturbance to participant offerings
- Encourages consistency in decisions as Board/Committee members change over time
- Quarterly investment performance report should be designed to create a direct feedback loop to the IPS and reinforce monitoring criteria
- Reduces potential for conflicts of interest
- May contain directives on preferred treatment of plan assets, qualified plan expenses, or other plan design features







# **Structural Elements**

A comprehensive IPS should include the following elements as part of a documented prudent process for discharging fiduciary investment oversight duties:

Purpose & Objective		Investment Lineup Diversification	Manager Selection & Monitoring
Element		Objective	
Purpose & Objective	Outlines scope of policy and fide objective of providing retirement		
Roles & Responsibilities	Identify scope of responsibilities administrator, consultants, investigation of the second structure o	• •	
Investment Lineup Diversification	Intent to comply with ERISA Sec construct appropriately diversifi markets, including the selection	ed portfolios through broad	access to the capital
Manager Selection & Monitoring	Defines qualitative and quantita characteristics of each investme for addressing manager deficier	nt offering. Outlines "Watcl	hlist" triggers and process

For educational purposes only. Not intended to provide legal or tax advice. Information presented represents a general overview, is not exhaustive and is only accurate as of the date of distribution and may not reflect future interpretations or guidance.



# **Other Notable Considerations**

- Trustees should periodically review and understand IPS guidelines and make any necessary modifications to reflect prevailing processes or changes in plan design. Notate periodic reviews in the meeting minutes for documentation.
- Once adopted the IPS is considered a governing plan document, failure to comply may be viewed as a breach of fiduciary duty.
- Ensure that all service providers understand their duties and responsibilities within the IPS.
- Investment monitoring language should strike a balance between providing clear guidance on the status of a holding, while providing the Board/Committee with flexibility to incorporate external market factors or idiosyncratic strategy considerations on the timing of any action.

Effective maintenance, application and documentation of an Investment Policy Statement plays an integral role in building the plan's "fiduciary armor".





Washoe County 2023 Fiduciary Documentation As of June 30, 2023

Quarterly	1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter
Follow procedures, including documentation of all meetings and decisions	Yes	Yes		
Review of plan investments and compliance with investment policy statement	Yes	Yes		
Fiduciary education	Yes	Yes		
Periodically				
Investment policy statement review	No	No		
Review QDIA selection	Yes	Yes		
Plan fee analysis	Yes	Yes		
Plan recordkeeping & administration services review	Yes	Yes		
Employee education review	Yes	Yes		
Review of ancillary products, if applicable (self-directed brokerage, managed accounts, etc.)				
Other Projects				
Record-keeping Benchmarking Study		Yes		



Fund Information				Fund Investment Policy
Portfolio Manager : PM Tenure : Fund Assets :	Ruedi/Whittaker 20042004 -	Ticker : Inception Date : Portfolio Turnover :	01/14/1001	The Fund seeks long-term growth of capital. The Fund invests at least 80% of its assets in common stocks of mid-capitalization companies. The Fund may invest up to 20% of its total assets in securities of foreign issuers and non-dollar securities.

## **Comparative Performance - Trailing**

	QTR	YTD	1 YR	3 YR	5 YR	7 YR	10 YR
Hartford Mid Cap (HIMCX)	2.42 (93)	8.80 (30)	12.12 (57)	6.05 (100)	5.31 (93)	9.48 (35)	10.11 (21)
Russell Midcap Index	4.76 (42)	9.01 (28)	14.92 (25)	12.50 (73)	8.46 (27)	10.12 (20)	10.32 (16)
IM U.S. Mid Cap Core Equity (MF) 1st Quartile	5.31	9.44	14.92	15.66	8.54	9.88	9.58
IM U.S. Mid Cap Core Equity (MF) Median	4.65	7.22	12.82	13.58	7.39	8.98	8.68
IM U.S. Mid Cap Core Equity (MF) 3rd Quartile	3.73	4.92	10.37	12.43	6.10	7.82	7.76
Comparative Performance - Calendar							
	2022	2021	2020	2019	2018	2017	2016
Hartford Mid Cap (HIMCX)	-24.30 (95)	9.91 (100)	25.10 (7)	32.87 (16)	-7.44 (12)	24.47 (2)	11.98 (72)
Russell Midcap Index	-17.32 (88)	22.58 (68)	17.10 (17)	30.54 (31)	-9.06 (21)	18.52 (25)	13.80 (57)
IM U.S. Mid Cap Core Equity (MF) 1st Quartile	-9.55	28.72	14.20	31.35	-9.97	18.51	18.23
IM U.S. Mid Cap Core Equity (MF) Median	-13.21	25.73	8.44	28.59	-11.64	14.94	14.51
IM U.S. Mid Cap Core Equity (MF) 3rd Quartile	-15.51	21.53	3.24	25.60	-14.53	12.36	11.25

## Comparative Performance - Quarterly

	Mar-2023	Dec-2022	Sep-2022	Jun-2022	Mar-2022	Dec-2021	Sep-2021
Hartford Mid Cap (HIMCX)	6.23 (6)	8.77 (67)	-5.25 (75)	-18.09 (98)	-10.32 (99)	5.15 (92)	-3.52 (97)
Russell Midcap Index	4.06 (28)	9.18 (60)	-3.44 (32)	-16.85 (91)	-5.68 (77)	6.44 (80)	-0.93 (52)
IM U.S. Mid Cap Core Equity (MF) 1st Quartile	4.21	11.73	-3.25	-11.52	-1.65	8.95	-0.19
IM U.S. Mid Cap Core Equity (MF) Median	2.31	9.63	-4.32	-13.63	-4.08	8.20	-0.87
IM U.S. Mid Cap Core Equity (MF) 3rd Quartile	1.23	8.52	-5.35	-15.27	-5.65	6.74	-1.72

MPT Stats				Ranking vs. IM U.S. Mid Cap Core Equity (MF) 4 Quarters Rolling Periods					
	1 YR	3 YR	5 YR		Periods	5-25	25-Median	Median-75	75-95
Standard Deviation	22.16	20.19	22.08	Hartford Mid Cap (HIMCX)	28	14 (50%)	3 (11%)	3 (11%)	8 (29%)
Downside Risk	12.87	12.59	14.89	Russell Midcap Index	28	11 (39%)	8 (29%)	5 (18%)	4 (14%)
vs. Russell Midcap Index				Ranking vs. IM U.S. Mid Ca	p Core Equity (I	MF) 12 Quarters	Rolling Periods	5	
Alpha	-2.50	-6.06	-2.96		Periods	5-25	25-Median	Median-75	75-95
Beta	1.01	1.04	1.02	Hartford Mid Cap (HIMCX)	28	22 (79%)	0 (0%)	0 (0%)	6 (21%)
Down Market Capture	105.73	112.52	106.29	Russell Midcap Index	28	22 (79%)	2 (7%)	4 (14%)	0 (0%)
Information Ratio	-0.68	-1.32	-0.64		20	20 22 (1970)	2 (170)	+ (1+70)	0 (070)
Tracking Error	3.51	4.33	4.38	Ranking vs. IM U.S. Mid Ca	o Core Equity (	MF) 20 Quarters	Rolling Periods	3	
Up Market Capture	97.73	90.58	96.08	·	Periods	5-25	25-Median	Median-75	75-95
vs. 90 Day U.S. Treasury Bil	L			Hartford Mid Cap (HIMCX)	28	23 (82%)	0 (0%)	3 (11%)	2 (7%)
Sharpe Ratio	0.47	0.33	0.28	Russell Midcap Index	28	25 (89%)	3 (11%)	0 (0%)	0 (0%)



# Manager Profile Hartford Mid Cap (HIMCX) As of June 30, 2023

Portfolio Characteristics								Top Ten Equity Holdings				
		Portfol	io		В	enchmark			Port.	Bench.	Qtr	Contr.
Wtd. Avg. Mkt. Cap (\$)		12,842,92	8,976		22,	,190,915,022			Wt	Wt	Rtrn	Rtrn
Median Mkt. Cap (\$)		10,564,024	4,920		10,	,068,531,890		NVR Inc.	2.3	0.2	14.0	0.3
Price/Earnings ratio			19.8			17.2		MongoDB Inc	2.2	0.3	76.3	1.7
Price/Book ratio			3.5			3.0		Exact Sciences Corporation	2.0	0.2	38.5	0.8
5 Yr. EPS Growth Rate (%)	1		19.1			13.4		WEX Inc	2.0	0.1	-1.0	0.0
Current Yield (%)			0.7			1.7		Shift4 Payments Inc	2.0	0.0	-10.4	-0.2
Beta (5 Years, Monthly)			1.02			1.00		Insulet Corporation	1.9	0.2	-9.6	-0.2
Number of Stocks			108			812		Lennox International Inc.	1.7	0.1	30.2	0.5
								Axon Enterprise Inc	1.7	0.1	-13.2	-0.2
								Markel Group Inc	1.7	0.2	8.3	0.1
								Credit Acceptance Corp	1.7	0.0	16.5	0.3
Buy and Hold Sector Attri	bution - 1 Qtr							Ten Best Performers				
		cation		rmance		Attribution			Port.	Bench.	Qtr.	Contr.
	Portfolio	Benchmark	Portfolio	Benchmark	Sector	Stock	Total		Wt	Wt	Rtrn	Rtrn
Communication Services	2.1	3.7	2.77	3.45	0.02	-0.02	0.00	Super Micro Computer Inc	0.2	0.0	133.9	0.3
Consumer Discretionary	12.3	12.0	1.76	6.93	0.01	-0.65	-0.64	MongoDB Inc	2.2	0.3	76.3	1.7
Consumer Staples	1.3	4.1	-9.69	0.77	0.11	-0.15	-0.04	Builders FirstSource Inc	1.1	0.2	53.2	0.6
Energy	5.6	4.7	4.91	1.81	-0.03	0.17	0.14	Exact Sciences Corporation	2.0	0.2	38.5	0.8
Financials	8.2	12.7	-0.29	2.78	0.17	-0.33	-0.17	Apellis Pharmaceuticals Inc	0.7	0.1	38.1	0.3
Health Care	20.2	10.9	0.22	0.88	-0.38	-0.16	-0.54	Datadog Inc	1.6	0.3	35.4	0.6
Industrials	21.3	17.1	8.13	11.76	0.22	-0.72	-0.50	Coherent Corp	0.4	0.1	33.9	0.1
Information Technology	21.6	15.7	2.73	6.02	0.63	-0.87	-0.24	Onto Innovation Inc	0.2	0.0	32.5	0.1
Materials	5.6	6.1	-5.69	1.16	0.01	-0.39	-0.38	ShockWave Medical Inc	0.4	0.1	31.6	0.1
Real Estate	1.0	7.3	-4.33	2.88	0.12	-0.07	0.04	CarMax Inc	1.3	0.1	30.2	0.4
Utilities	0.9	5.7	1.31	-2.14	0.33	0.03	0.36					
	100.0	100.0	2.82	4.77	1.21	-3.16	-1.95					

#### Buy and Hold Style Attribution - 1 Qtr

Buy and Hold S	tyle Attributio	n - 1 Qtr						Ten Worst Performers				
	Allo	cation	Perfor	mance		Attribution			Port.	Bench.	Qtr.	Contr.
	Portfolio	Benchmark	Portfolio	Benchmark	Style	Stock	Total		Wt	Wt	Rtrn	Rtrn
Large Growth	0.0	4.8	0.00	7.93	-0.15	0.00	-0.15	Nuvei Corp	1.2	0.0	-32.1	-0.4
Large Neutral	0.0	3.2	0.00	2.78	0.06	0.00	0.06	Integra LifeSciences Holdings Corp	0.1	0.0	-28.4	0.0
Large Value	0.0	1.7	0.00	-3.02	0.14	0.00	0.14	Agilon Health Inc	0.4	0.0	-27.0	-0.1
Mid Growth	15.5	14.1	7.19	4.97	-0.02	0.34	0.32	VIZIO Holding Corp	0.5	0.0	-26.5	-0.1
Mid Neutral	35.5	29.3	0.77	6.41	0.08	-2.01	-1.92	Etsy Inc	1.2	0.1	-24.0	-0.3
Mid Value	26.2	36.6	5.26	3.17	0.13	0.51	0.65	Synaptics Inc	0.3	0.0	-23.2	-0.1
Small Growth	4.1	0.3	-3.86	4.28	0.27	-0.45	-0.18	Olo Inc	0.3	0.0	-20.8	-0.1
Small Neutral	6.2	0.6	-7.12	1.54	-0.09	-0.57	-0.67	Genpact Ltd	1.6	0.1	-18.4	-0.3
Small Value	4.1	1.8	4.21	6.12	0.03	-0.06	-0.02	BJ's Wholesale Club Holdings Inc	0.5	0.1	-17.2	-0.1
Unclassified	8.3	7.5	3.56	5.70	0.01	-0.17	-0.17	Sarepta Therapeutics Inc	0.7	0.1	-16.9	-0.1
Total	100.0	100.0	2.82	4.77	0.47	-2.42	-1.95					



Fund Information				Fund Investment Policy
Portfolio Manager : PM Tenure : Fund Assets :	Team Managed \$661 Million	Ticker : Inception Date : Portfolio Turnover :	AEUDX 07/26/2013 29%	The Fund seeks current income. Capital appreciation is a secondary objective. Under normal market conditions, the fund will invest at least 80% of the funds net assets in equity securities including equity-equivalent securities, such as convertible securities regardless of the movement of stock prices generally.

# Comparative Performance - Trailing

	QTR	YTD	1 YR	3 YR	5 YR	7 YR	10 YR
American Century Equity Income (AEUDX)	2.55 (87)	3.10 (68)	8.52 (78)	10.50 (98)	7.60 (78)	8.05 (90)	N/A
Russell 1000 Value Index	4.07 (56)	5.12 (43)	11.54 (54)	14.30 (51)	8.11 (65)	8.94 (74)	9.22 (57)
IM U.S. Large Cap Value Equity (MF) 1st Quartile	5.58	7.45	14.82	16.05	10.00	11.18	10.42
IM U.S. Large Cap Value Equity (MF) Median	4.40	4.40	12.15	14.32	8.57	9.77	9.44
IM U.S. Large Cap Value Equity (MF) 3rd Quartile	3.27	2.54	8.84	12.56	7.68	8.88	8.62
Comparative Performance - Calendar							
	2022	2021	2020	2019	2018	2017	2016
American Century Equity Income (AEUDX)	-2.90 (18)	17.27 (98)	1.43 (80)	24.64 (74)	-4.17 (18)	13.83 (82)	19.88 (6)
Russell 1000 Value Index	-7.54 (66)	25.16 (63)	2.80 (61)	26.54 (50)	-8.27 (45)	13.66 (82)	17.34 (17)
IM U.S. Large Cap Value Equity (MF) 1st Quartile	-4.31	27.80	7.14	29.38	-5.78	18.94	16.15
IM U.S. Large Cap Value Equity (MF) Median	-6.10	25.96	3.82	26.50	-8.61	16.95	13.85
IM U.S. Large Cap Value Equity (MF) 3rd Quartile	-8.63	24.02	1.91	24.44	-10.10	15.04	12.42

## **Comparative Performance - Quarterly**

	Mar-2023 Dec-2022		Sep-2022	Jun-2022	Mar-2022	Dec-2021	Sep-2021	
American Century Equity Income (AEUDX)	0.53 (44)	10.02 (97)	-4.33 (17)	-8.22 (4)	0.52 (18)	7.00 (82)	-0.54 (55)	
Russell 1000 Value Index	1.01 (33)	12.42 (59)	-5.62 (52)	-12.21 (63)	-0.74 (57)	7.77 (63)	-0.78 (68)	
IM U.S. Large Cap Value Equity (MF) 1st Quartile	1.58	14.27	-4.65	-10.27	0.17	9.18	-0.06	
IM U.S. Large Cap Value Equity (MF) Median	0.15	12.88	-5.57	-11.35	-0.58	8.32	-0.43	
IM U.S. Large Cap Value Equity (MF) 3rd Quartile	-0.84	11.81	-6.25	-13.24	-1.93	7.32	-1.07	

MPT Stats				Ranking vs. IM U.S. Large Cap Value Equity (MF) 4 Quarters Rolling Periods							
	1 YR	3 YR	5 YR		Periods	5-25	25-Median	Median-75	75-95		
Standard Deviation	14.26	12.91	14.49	American Century Equity Income (AEUDX)	28	11 (39%)	1 (4%)	4 (14%)	12 (43%)		
Downside Risk	8.51	7.28	9.79	Russell 1000 Value Index	28	2 (7%)	9 (32%)	12 (43%)	5 (18%)		
vs. Russell 1000 Value Index				Ranking vs. IM U.S. Large Cap Value Equity (MF) 12 Quarters Rolling Periods							
Alpha	-0.03	0.01	1.20		Periods	5-25	25-Median	Median-75	75-95		
Beta	0.72	0.73	0.75	American Century Equity Income (AEUDX)	28	10 (36%)	5 (18%)	3 (11%)	10 (36%)		
Down Market Capture	73.48	76.77	74.37	Russell 1000 Value Index	28	3 (11%)	4 (14%)	· · ·	1 (4%)		
Information Ratio	-0.59	-0.71	-0.22		20	3(11/0)	+(1+70)	20 (7170)	1 (470)		
Tracking Error	6.11	5.69	5.59	Ranking vs. IM U.S. Large Cap Value Equit	ty (ME) 20 Ou	artors Pollir	na Poriode				
Up Market Capture	72.87	74.97	78.33	Nanking vs. In 0.5. Large Cap value Equi	Periods	5-25	25-Median	Median-75	75-95		
vs. 90 Day U.S. Treasury Bi	II			American Century Equity Income (AEUDX)	20	8 (40%)	2 (10%)	3 (15%)	7 (35%)		
Sharpe Ratio	0.40	0.74	0.47	Russell 1000 Value Index	28	4 (14%)	8 (29%)	16 (57%)	0 (0%)		



Manager Profile American Century Equity Income (AEUDX) As of June 30, 2023

Portfolio Chara	cteristics								Top Ten Equity Holdings					
			Portfo	lio			Benchmark		_		Port.	Bench.	Qtr	Contr.
Wtd. Avg. Mkt. C	Cap (\$)		185,516,14	,	138,040,557,950					Wt	Wt	Rtrn	Rtrn	
Median Mkt. Ca	p (\$)		57,298,312,150 11,638,703,925					Johnson & Johnson 6.0			2.2	7.6	0.5	
Price/Earnings r			18.4 16.2					Medtronic PLC 5.			0.6	10.1	0.5	
Price/Book ratio				3.0			2.5		Exxon Mobil Corp 3			2.2	-1.4	0.0
5 Yr. EPS Grow	th Rate (%)			11.2		13.0			iShares Russell 1000 Value		3.2	0.0	4.1	0.1
Current Yield (%	<b>b</b> )			2.9		2.4			Raytheon Technologies Corp			0.7	0.6	0.0
Beta (5 Years, N	/lonthly)			0.75		1.00			Automatic Data Processing	Inc	2.7	0.1	-0.7	0.0
Number of Stock	ks			71		844			Mondelez International Inc		2.7	0.5	5.2	0.1
									PepsiCo Inc		2.6	0.4	2.3	0.1
									Roche Holding AG		2.6	0.0	7.0	0.2
									Linde Plc		2.5	0.9	7.6	0.2
Buy and Hold S	ector Attrib								Ten Best Performers					
		Allocatio		Performance		Attribution			Po		Bench.		Qtr.	Contr.
			Benchmark	Portfolio	Benchmark	Sector	Stock	Total	-	Wt		-	Rtrn	Rtrn
Communication		3.0	8.9	-1.87	9.22	-0.30	-0.34	-0.64	Hubbell Inc	1.5	0.		36.8	0.6
Consumer Discr	,	0.0	5.9	0.00	7.14	-0.20	0.00	-0.20	Microsoft Corp	1.3	0.		18.4	0.2
Consumer Staple	es	20.1	7.7	1.97	0.92	-0.37	0.23	-0.14	Republic Services Inc.	1.3		.2	13.6	0.2
Energy		8.5	7.8	-0.85	-0.96	-0.03	0.02	-0.01	Marsh & McLennan Co	1.9	0.		13.3	0.3
Financials		14.4	19.4	1.92	5.53	-0.09	-0.52	-0.61	JPMorgan Chase & Co	1.8		.2	12.5	0.2
Health Care		16.1	16.4	7.44	1.41	-0.01	0.96	0.95	Legrand	0.6	0.		10.8	0.1
Industrials		12.7	10.8	6.48	8.78	0.10	-0.30	-0.20	Baker Hughes a GE Co	0.4		.2	10.3	0.0
Information Tech	nnology	6.5	8.7	3.57	2.56	-0.07	0.07	-0.01	Medtronic PLC	5.1	0.		10.1	0.5
Materials		5.2	4.3	2.62	0.94	-0.02	0.09	0.07	Atlas Copco AB	0.3	0.		9.1	0.0
Real Estate		1.7	4.5	-3.44	2.52	0.04	-0.10	-0.07	AFLAC Inc	0.6	0.	.2	8.9	0.1
Utilities		8.7	5.6	-3.56	-2.74	-0.21	-0.07	-0.28						
Other		3.1	0.0	4.08	0.00	0.01	0.00	0.01						
Total		100.0	100.0	2.66	3.80	-1.16	0.02	-1.14						
Buy and Hold S	tyle Attribu	tion - 1 Qtr							Ten Worst Performers					
	Α	llocation		Performanc	е		Attribution			Po		Bench.	Qtr.	Contr.
	Portfolio	Benchma	irk Port	folio Be	enchmark	Style	Stock	Total			Vt	Wt	Rtrn	Rtrn
Large Growth	12.5	2.9	2.	54	6.47	0.26	-0.45	-0.19	Commerce Bancshares Inc		.4	0.0	-16.1	-0.1
Large Neutral	30.3	27.3		36	5.93	0.03	-0.16	-0.13	Northern Trust Corp		.6	0.1	-15.0	-0.1
Large Value	26.6	32.0	2.	27	1.51	0.11	0.20	0.31	Amcor Plc		.5	0.1	-11.2	-0.1
Mid Growth	1.9	0.8	-3.	22	4.46	0.01	-0.11	-0.09	AllianceBernstein Holding L		.6	0.0	-10.3	-0.1
Mid Neutral	6.1	9.5	8.	46	4.06	0.00	0.21	0.21	Truist Financial Corp		.2	0.2	-9.3	0.0
Mid Value	13.5	20.2	0.	56	3.39	0.04	-0.49	-0.45	Spire Inc		.1	0.0	-8.6	-0.2
Small Growth	0.0	0.0	0.	00	-8.68	0.00	0.00	0.00	Eversource Energy		.7	0.1	-8.6	-0.1
Small Neutral	0.0	0.5	0.	00	6.26	0.04	0.00	0.04	U.S. Bancorp		.4	0.3	-7.0	0.0
Small Value	3.5	0.9	-8.	58	5.08	0.03	-0.50	-0.47	Capitol Federal Financial Ind		.6	0.0	-6.9	0.0
Unclassified	5.7	5.9	0.	63	6.78	-0.05	-0.32	-0.37	United Parcel Service Inc	0	.6	0.5	-6.7	0.0
Total	100.0	100.0	2.	66	3.80	0.48	-1.62	-1.14						



#### **Historical Activity**

#### Sep-2020

Hotchkis & Wiley Mid Cap Value (HWMIX) fund removed from the fund line-up.

#### Jan-2020

The Custom Target Date funds were replaced with the American R6 Target Date funds.

#### Jun-2019

The MassMutual Guaranteed Interest Account was replaced by the Voya Fixed Account. The returns are MassMutual until 1Q2019, Voya thereafter. The Record Keeper was changed in 2Q2019 from Mass Mutual to Voya.

#### Jul-2017

The Hartford Small Company Fund (HIASX) was replaced by Wells Fargo Small Company Growth Fund (WSCRX).

#### Nov-2016

The Hartford Capital Appreciation Fund (HIACX) was replaced by the Wells Fargo Disciplined US Core Fund (EVSIX).

The Deutsche Real Assets Fund (AAAVX) was removed from the Plans. The remaining balances were mapped into the American Funds American Balanced Fund (RLBGX).

The Plan added WCAB Models 2015, 2025, 2035, 2045, 2055, and 2060. The 2010 Model was replaced by the Income Model.

#### Dec-2015

The Plan was converted to the Mass Mutual platform. The following funds were changed:

The SSGA Index Fund were replaced by Vanguard Index Funds. The Hartford Balanced was replaced by American Funds Balanced. American Century Equity Income shares changed from ACIIX to AEUDX. Deutsche Alternative Asset Allocation shares changed from AAAAX to AAAVX.

#### Sep-2014

Lord Abbett Mid Cap Value closes 9/3/14. Assets will map to the Hotchkis & Wiley Mid Cap Value Fund on September 5, 2014.

#### Oct-2013

Pimco Foreign Bond (US Hedged) (PFORZ) was added to the fund lineup.

#### Apr-2011

The LifePath Funds were removed from the fund line-up.

#### Mar-2011

The Barclays LifePath Target Date Funds will be mapped to the Hartford Advisors HLS Fund.

Oct-2010



The following funds were moved to new share classes as follows:

American Funds EuroPacific Growth to R6 shares SSgA Russell Small Cap to A shares Lord Abbett Mid Cap Value to I shares SSgA S&P Mid Cap Index to A shares American Funds Growth Fund of America to R6 shares SSgA S&P 500 Index to A shares Pimco High Yield to Institutional shares.

#### Dec-2009

The LifePath 2010 fund was wrapped in with the Life Path Retirement Fund.

#### Sep-2009

Barclays merged with BlackRock. The LifePath funds took the BlackRock name.

#### Feb-2009

The Following new investment choices were added to the Plans:

American Century Capital, DFA Intl. Small Cap Value, DWS Alternative Asset Allocation, Lazard Emerging Markets, Lord Abbett Mid Cap Value.

#### Sep-2007

The Hartford Index HLS was replaced by the SSgA S&P 500 Flagship fund in the third quarter 2007. The TCW Opportunity Fund was renamed to the TCW Relative Value Small Cap Fund.

#### Jun-2007

The American Century Ultra Fund was removed from the fund lineup during the second quarter 2007.

#### Mar-2005



Changes to the fund lineup started on March 1, 2005 and concluded on March 31, 2005. Below is a list of the funds that were retained and a list of funds that were added to the lineup.

Retained Funds: Hartford Small Company HLS Skyline Special Equities Portfolio, Hartford Mid-Cap HLS American Century Ultra, Hartford Capital Appreciation Hartford Index HLS American Century Equity Income Hartford Advisors HLS Hartford Total Return Bond HLS General "Declared Interest"

Introduced Funds: American Funds EuroPacific TCW Opportunity Artisan Mid-Cap Hotchkis & Wiley Mid-Cap Value American Funds Growth Fund PIMCO High Yield General Account (Declared) Barclays Global Investors LifePath.



#### **Common Index Definitions**

**The S&P 500® Index** is a broad based unmanaged index of 500 stocks, which is widely recognized as representative of the equity market in general.

**The Russell 1000® Index** measures the performance of those 1,000 largest companies in the Russell 3000® Index, which represents approximately 92% of the total market capitalization of the Russell 3000® Index.

**The Russell 1000® Value Index** measures the performance of those Russell 1000® Index companies with lower price-to-book ratios and lower forecasted growth values.

**The Russell 1000® Growth Index** measures the performance of those Russell 1000® Index companies with higher price-to-book ratios and higher forecasted growth values

**The Russell 2000® Index**, an unmanaged index, measures the performance of the 2,000 smallest companies in the Russell 3000® Index.

**The Russell 2000® Value Index** measures the performance of those Russell 2000® Index companies with lower price-to-book ratios and lower forecasted growth values.

**The Russell 2000® Growth Index** measures the performance of those Russell 2000® Index companies higher price-to-book ratios and higher forecasted growth values.

The Russell 3000® Index includes the 3,000 largest U.S.-traded stocks.

The Russell 3000® Value Index includes stocks from the Russell 3000® Index with lower price-tobook ratios and lower expected growth rates.

The Russell 3000 $^{\mbox{\tiny B}}$  Growth Index includes companies that display signs of above average growth. The index is used to provide a gauge of the performance of growth stocks in the U.S.

The Russell Midcap® Index, an unmanaged index, measures the performance of the 800 smallest companies in the Russell 1000® Index.

**The Russell Midcap® Value Index** measures the performance of those Russell Midcap® Index companies with lower price-to book value ratios and lower forecasted growth values.

**The Russell Midcap® Growth Index** measures the performance of those Russell Midcap® Index companies with higher price-to book ratios and higher forecasted growth values.

**The Russell Developed® Index** measures the performance of the investable securities in developed countries globally across all market capitalization ranges.

The Bloomberg Barclays Intermediate Treasury Index includes Treasuries with maturities between 1 and 10 years.

The Bloomberg Barclays Aggregate Bond Index, is a market capitalization-weighted intermediate term index, meaning the securities in the index are weighted according to the market size of each bond type. Most U.S. traded investment grade bonds are represented. Municipal bonds, and Treasury Inflation-Protected Securities are excluded, due to tax treatment issues. The index includes Treasury securities, Government agency bonds, Mortgage-backed bonds, Corporate bonds, and a small amount of foreign bonds traded in U.S. The Bloomberg Barclays US Aggregate Bond Index is an index.

**The BofA Merrill Lynch U.S. High Yield Index** tracks the performance of below investment grade, but not in default, US dollardenominated corporate bonds publicly issued in the US domestic market, and includes issues with a credit rating of BBB or below, as rated by Moody's and S&P.



Active Return	- Arithmetic difference between the manager's performance and the designated benchmark return over a specified time period.
Alpha	- A measure of the difference between a portfolio's actual performance and its expected return based on its level of risk as determined by beta. It determines the portfolio's non-systemic return, or its historical performance not explained by movements of the market.
Beta	- A measure of the sensitivity of a portfolio to the movements in the market. It is a measure of the portfolio's systematic risk.
Consistency	- The percentage of quarters that a product achieved a rate of return higher than that of its benchmark. Higher consistency indicates the manager has contributed more to the product's performance.
Distributed to Paid In (DPI)	- The ratio of money distributed to Limited Partners by the fund, relative to contributions. It is calculated by dividing cumulative distributions by paid in capital. This multiple shows the investor how much money they got back. It is a good measure for evaluating a fund later in its life because there are more distributions to measure against.
Down Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of negative returns. A lower value indicates better product performance
Downside Risk	- A measure similar to standard deviation that utilizes only the negative movements of the return series. It is calculated by taking the standard deviation of the negative quarterly set of returns. A higher factor is indicative of a riskier product.
Excess Return	- Arithmetic difference between the manager's performance and the risk-free return over a specified time period.
Excess Risk	- A measure of the standard deviation of a portfolio's performance relative to the risk free return.
Information Ratio	- This calculates the value-added contribution of the manager and is derived by dividing the active rate of return of the portfolio by the tracking error. The higher the Information Ratio, the more the manager has added value to the portfolio.
Public Market Equivalent (PME)	- Designs a set of analyses used in the Private Equity Industry to evaluate the performance of a Private Equity Fund against a public benchmark or index.
R-Squared	- The percentage of a portfolio's performance that can be explained by the behavior of the appropriate benchmark. A high R-Squared means the portfolio's performance has historically moved in the same direction as the appropriate benchmark.
Return	- Compounded rate of return for the period.
Sharpe Ratio	- Represents the excess rate of return over the risk free return divided by the standard deviation of the excess return. The result is an absolute rate of return per unit of risk. A higher value demonstrates better historical risk-adjusted performance.
Standard Deviation	- A statistical measure of the range of a portfolio's performance. It represents the variability of returns around the average return over a specified time period.
Total Value to Paid In (TVPI)	- The ratio of the current value of remaining investments within a fund, plus the total value of all distributions to date, relative to the total amount of capital paid into the fund to date. It is a good measure of performance before the end of a fund's life
Tracking Error	- This is a measure of the standard deviation of a portfolio's returns in relation to the performance of its designated market benchmark.
Treynor Ratio	- Similar to Sharpe ratio but utilizes beta rather than excess risk as determined by standard deviation. It is calculated by taking the excess rate of return above the risk free rate divided by beta to derive the absolute rate of return per unit of risk. A higher value indicates a product has achieved better historical risk-adjusted performance.
Up Market Capture	- The ratio of average portfolio performance over the designated benchmark during periods of positive returns. A higher value indicates better product performance.



AndCo compiled this report for the sole use of the client for which it was prepared. AndCo is responsible for evaluating the performance results of the Total Fund along with the investment advisors by comparing their performance with indices and other related peer universe data that is deemed appropriate. AndCo uses the results from this evaluation to make observations and recommendations to the client.

AndCo uses time-weighted calculations which are founded on standards recommended by the CFA Institute. The calculations and values shown are based on information that is received from custodians. AndCo analyzes transactions as indicated on the custodian statements and reviews the custodial market values of the portfolio. As a result, this provides AndCo with a reasonable basis that the investment information presented is free from material misstatement. This methodology of evaluating and measuring performance provides AndCo with a practical foundation for our observations and recommendations. Nothing came to our attention that would cause AndCo to believe that the information presented is significantly misstated.

This performance report is based on data obtained by the client's custodian(s), investment fund administrator, or other sources believed to be reliable. While these sources are believed to be reliable, the data providers are responsible for the accuracy and completeness of their statements. Clients are encouraged to compare the records of their custodian(s) to ensure this report fairly and accurately reflects their various asset positions.

The strategies listed may not be suitable for all investors. We believe the information provided here is reliable, but do not warrant its accuracy or completeness. Past performance is not an indication of future performance. Any information contained in this report is for informational purposes only and should not be construed to be an offer to buy or sell any securities, investment consulting, or investment management services.

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