



## Item 10

DATE: June 2, 2022

TO: Deferred Compensation Management Council

FROM: Brent Petty, NWCM, Inc.

SUBJECT: First Quarter Investment Performance Report (Executive Summary)

### Capital Markets

Name	YTD (04/30/2022)	Q1 2022	1-Year (04/30/2022)
S&P 500 TR USD	-12.92	-4.60	0.21
S&P MidCap 400 TR	-11.64	-4.88	-7.03
S&P SmallCap 600 TR USD	-12.99	-5.62	-8.54
MSCI EAFE NR USD	-12.00	-5.91	-8.15
MSCI EM NR USD	-12.15	-6.97	-18.33
Bloomberg US Agg Bond TR USD	-9.50	-5.93	-8.51

	4/29/2022	3/31/2022	3/31/2021
10-Year Treasury Yield	2.89%	2.32%	1.74%

### First Quarter (Complete Quarterly Investment Report is provided as **Exhibit A**)

At the start of the quarter the economy showed signs of robustness, but unrelenting demand combined with lagging supply led to mounting inflation concerns, which were further exacerbated by Russia's unprovoked invasion of Ukraine. The Fed pivoted towards tightening with a 0.25% rate hike announced at the March meeting and additional rate hikes expected to follow in the coming months. Oil prices soared 32% during the first quarter, as the Russian invasion amplified inflationary pressures and created a surge in global commodity prices. With Europe sourcing half its natural gas supply from Russia, disruption concerns drove global prices up nearly 50%. Combined, Russia and Ukraine provide 30% of the world's wheat supply and 20% of its corn. With the exception of the Energy sector, equity markets swiftly declined due to concerns about global growth. China's Zero Tolerance COVID restrictions, poor vaccine efficacy, regulation, and real estate issues led to a trim in the IMF's global GDP growth forecast. The bond market, anticipating the Fed's tightening moves, drove interest rates steadily higher and equities lower. The bond market's reaction has driven a dramatic shift in the yield curve, resulting in the worst quarterly treasury bond performance since record-keeping began in 1973. The Fed's actions will likely impact employment and impede GDP growth in 2022. An end-of-quarter equity surge softened the

blow a bit but proved to be short-lived and was likely a bear market rally rather than the start of a meaningful turnaround, as geopolitical risk and market volatility remain elevated.

- **U.S. Equities** declined -4.60% in the first quarter but remain up 15.65% over the past 12 months. Large cap value outperformed growth for the quarter. Energy was the leading sector for the quarter, with a gain of 32%. Communication services was the weakest sector, losing -11.1%, while small cap was down -5.62% for the quarter.
- In **International Equities**, the MSCI EAFE Index lost -5.91% in the first quarter, underperforming the S&P 500 by -1.31%. EAFE was negatively impacted by the invasion of Ukraine. The MSCI Emerging Market Index lost -6.97% for the first quarter and -11.37% for the year.
- In **Fixed Income**, the Bloomberg US Aggregate Bond Index declined -5.93% in the first quarter and -4.15% for the past 12 months. The 10-year treasury bond climbed to 2.32%, versus 1.52% three months ago. Record GDP growth, low unemployment, and high inflation led the Fed to reduce bond purchases and increase the number of expected rate increases. The ICE BofA US High Yield Index declined -4.51% in the first quarter and -0.29% for the past 12 months.

### Economic Factors

- U.S. GDP increased at an annual rate of 6.9% in the fourth quarter. 2021 GDP grew at 5.5%, the largest gain since 1984. The initial estimate for the first quarter's GDP will be announced at the end of April. The consensus for US growth in 2022 was adjusted from 3.8% to 3.2% due to geopolitical concerns, among other factors.
- The U.S. unemployment rate continued to decline, dropping to 3.6% in March. Nearly 1.7 million jobs were added during the quarter, though employment remains 1.6 million below its pre-pandemic peak in February 2020. Wages grew 5.6% in the past 12 months but did not maintain pace with inflation. Unemployment is not expected to rise significantly, even with expected interest rate increases.
- In March, the Consumer Price Index for All Urban Consumers (CPI-U) increased 1.2%, leaving the U.S. with a 12-month inflation rate of 8.5%, the highest annual result since 1981. The 18.8% increase in gasoline accounted for half of the month's overall inflation. Core CPI for March was 0.3%, and 6.5% for the past year. Shelter costs increased 0.4%, marking the biggest impact on CORE inflation. Prices for automobiles and trucks declined by 3.8% in March.

## Investments

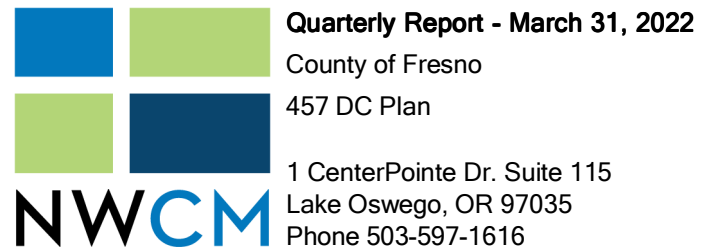
- An updated fund watch report has been included as **Exhibit B**.
- Columbia Small Cap Value Fund II Institutional 3, Alger Small Cap Focus Y, and Vanguard Developed Markets Index Admiral were added to the plan on March 16, 2022.
- Janus Henderson Small Cap Value N was removed from the plan on March 16, 2022. Assets were mapped to Columbia Small Cap Value Fund II Institutional 3.
- Nicholas Limited was removed from the plan on March 16, 2022. Assets were mapped to Alger Small Cap Focus Y.
- Blackrock EAFE Equity Index Fund T was removed from the plan on March 16, 2022. Assets were mapped to Vanguard Developed Markets Index Admiral.
- Alger Spectra Y scored a two this quarter due to recent underperformance. A memo has been included in **Exhibit C**.
- Alger Small Cap Focus Y scored a four this quarter due to recent underperformance. A memo has been included in **Exhibit C**.
- Invesco Developing Markets R6 scored a four this quarter due to recent underperformance. A memo has been included in **Exhibit C**.
- Fidelity Advisor Real Estate Income I scored a four this quarter due to recent underperformance.
- Columbia Dividend Income fund is being monitored due to the departure of one of the fund's three portfolio managers in Q1 2021.
- The remaining investment options are compliant with the County's investment policy performance criteria.

## Recommended Actions

1. Approve placement of Alger Spectra Y (ASPYX) on the watch list.
2. Approve placement of Alger Small Cap Focus Y (AOFYX) on the watch list.
3. Approve placement of Invesco Developing Markets R6 (ODVIX) on the watch list.
4. Approve keeping Fidelity Advisor Real Estate Income I (FRIRX) on the watch list.
5. Approve keeping Columbia Dividend Income (CDDYX) on the watch list.

# Item 10 - Exhibit A

---





# Table of Contents

---

## Market Overview

Quarterly Market Overview	1
Summary Of Assets	9

## Retirement

Plan Investment Summary	10
Fund Policy Compliance	12
Fund Commentary	17
Expense Ratio Report (Entity)	26

# Market Summary Video

Our quarterly market summary will now be pre-recorded and available to view prior to your scheduled committee meetings.

This new video format has several advantages:

- Can be watched at your convenience
- More meeting time can be devoted to discussion of plan priorities
- Available for committee members who are unable to attend the meeting
- Archived for future viewing

**Economy** Inflation Rises and Unemployment Declines

**Asset Class Performance** Markets at a Glance

**Market Overview** A Rude Awakening Continued...

**Market Overview** A Rude Awakening

**S&P 500 vs. Global Energy**

**10-Year US Treasury**

Three months ago, the economy was roiling. The global re-opening was exuberant. U.S. domestic travel, houses, furniture, and cars were in 2021, the highest in 20 years, and GDP increase after adjusting for inflation. This was since 1984. Surging demand meeting tight supply, which was dramatically worsened by the Ukraine. Global supply chains are further compromised as a result.

The Fed's defensive nature of Russia's 190,000 troop buildup on Ukraine's border was denuded by US intelligence and proven false with the unprovoked invasion on February 24th. Despite relentless bombing and missile attacks, Ukraine's resistance to Russia's invasion was fierce and restrained Russia's advances in Kyiv and several other cities. The condemnation of Russia's acts was almost universal, as was the

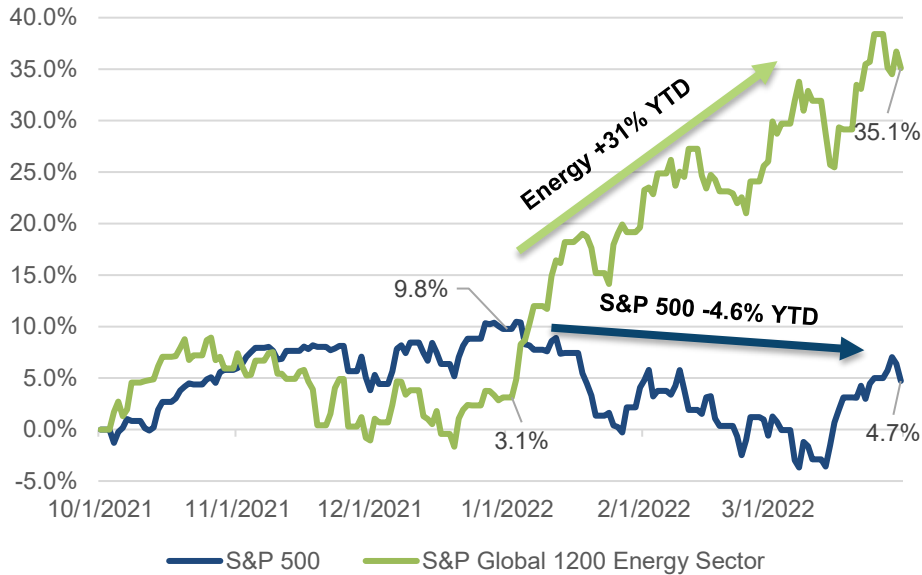
Concerns, the Fed had already pivoted policy tightening as the quarter began. The inflationary pressures, as did surging demand for commodities of all types. With the exception of the Energy complex, equity markets swiftly declined due to concerns about global growth. The bond market, anticipating the Fed, drove interest rates steadily higher and equities still lower. A late quarter equity surge softened the blow somewhat. Unfortunately, continued bond market volatility will be transmitted to the equity markets as the Fed policy and war impacts unfold.

Source: Goldman Sachs Global Investment Research, NorthWest Capital Management. Past performance does not guarantee future results. All indexes are unmanaged and cannot be invested into directly. Diversification does not ensure a profit or guarantee against a loss. U.S. Equities: S&P 500 Index, U.S. Treasuries: Bloomberg Barclays U.S. Treasury Bond Index, 10 Credit: Bloomberg Barclays U.S. Credit Bond Index, HY Bonds: Bloomberg Barclays U.S. Corporate High Yield Bond Index, INTL (International) Developed Equities: MSCI EAFE Index, Emerging Market equities: MSCI Emerging Markets Index. Data as of March 31, 2022.

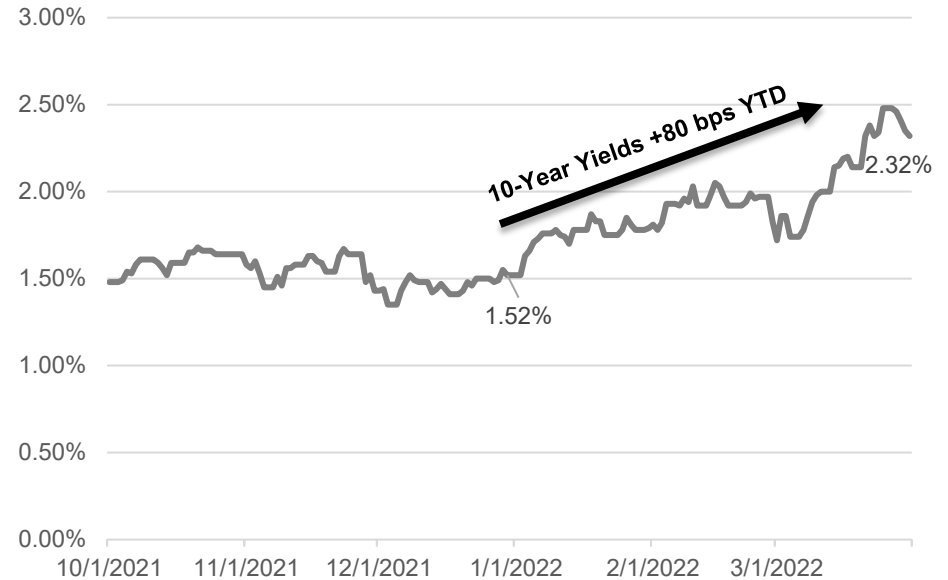
Click [here](#) to watch the market summary video now.

## A Rude Awakening

### S&P 500 vs. Global Energy



### 10-Year US Treasury



Three months ago, the economy was robust. COVID was less lethal, and the global re-opening was exuberant. U.S. consumers were clamoring for domestic travel, houses, furniture, and automobiles. Wages were up 5.4% in 2021, the highest in 20 years, and GDP climbed to \$24 trillion, a 5.5% increase after adjusting for inflation. This was the largest percentage gain since 1984. Surging demand meeting tight supply was a recipe for inflation, which was dramatically worsened by Russia's invasion of Ukraine. Global supply chains are further compromised as a result.

The 'defensive' nature of Russia's 190,000 troop buildup on Ukraine's border was derided by US intelligence and proven false with the unprovoked invasion on February 24th. Despite relentless bombing and missile attacks, Ukraine's resistance to Russia's invasion was fierce and restrained Russia's advances in Kyiv and several other cities. The condemnation of Russia's acts was almost universal, as was the

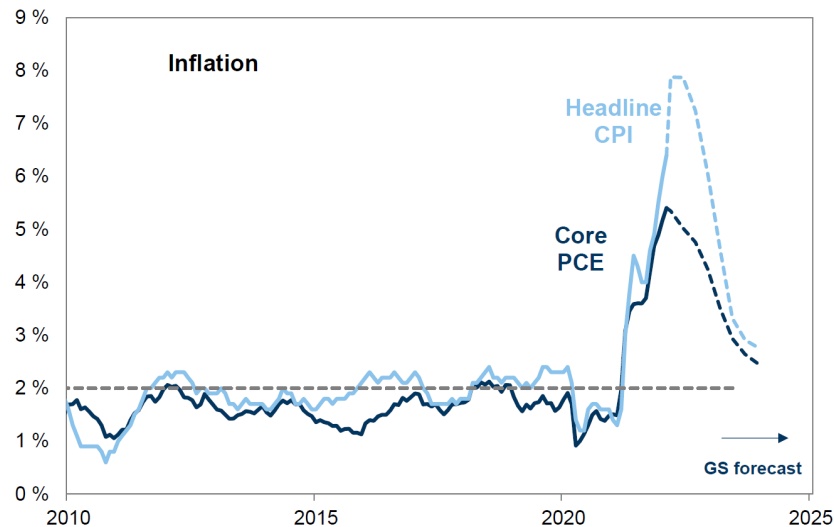
coordination of swift financial sanctions against Russia and its oligarchs. Stocks on the Moscow Exchange lost as much as 40% as a result. The ruble plummeted and the country's bonds teetered on default. A united West provided billions in financial aid and weapons to help Ukraine.

In the face of mounting inflation concerns, the Fed had already pivoted from accommodation to policy tightening as the quarter began. The invasion amplified the inflationary pressures, as did surging demand for commodities of all types. With the exception of the Energy complex, equity markets swiftly declined due to concerns about global growth. The bond market, anticipating the Fed, drove interest rates steadily higher and equities still lower. A late quarter equity surge softened the blow somewhat. Unfortunately, continued bond market volatility will be transmitted to the equity markets as the Fed policy and war impacts unfold.



## A Rude Awakening Continued...

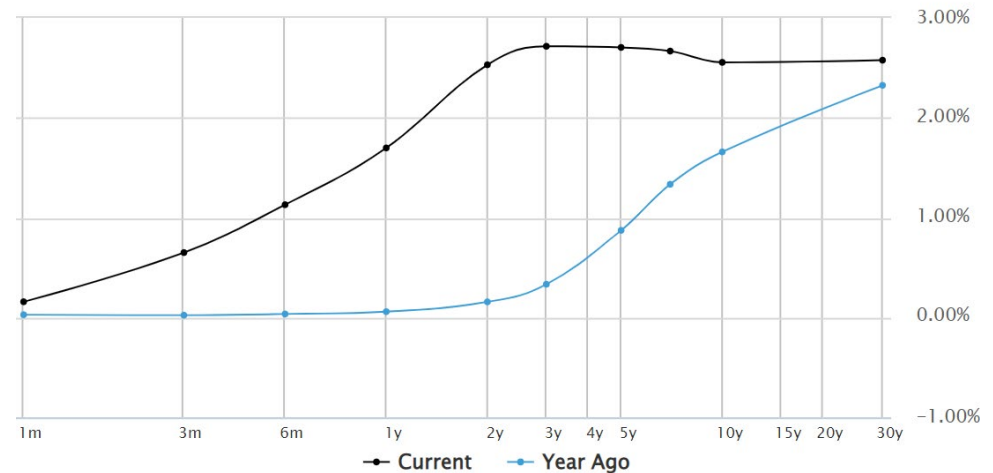
### Headline and Core PCE Inflation



The economic impacts of the war are best illustrated by inflation. Headline Consumer Price Index (CPI) typically receives attention, but comparison to Core Personal Consumption Expenditures (PCE), which excludes energy and food, gives a clearer picture. The impact on energy prices is obvious, with supplies already strained from both the global re-opening and capital-starved producers. Oil prices soared 32% during the first quarter. With Europe sourcing half its natural gas supply from Russia, disruption concerns drove global prices up nearly 50%. And Russia and Ukraine combined provide 30% of the world's wheat supply and 20% of its corn. During the quarter, U.S. prices for the two food staples climbed by 29% and 23% per ton, respectively. This is of even greater concern to poorer countries. While the average American family spends 12% of its budget on food, in sub-Saharan Africa, the percentage is as high as 40%.

The Fed response has been swift and remarkably hawkish. The Fed Funds rate was raised 0.25% at the March meeting, and the beginning of quantitative tightening and multiple further 0.5% increases are expected throughout 2022.

### US Yield Curve



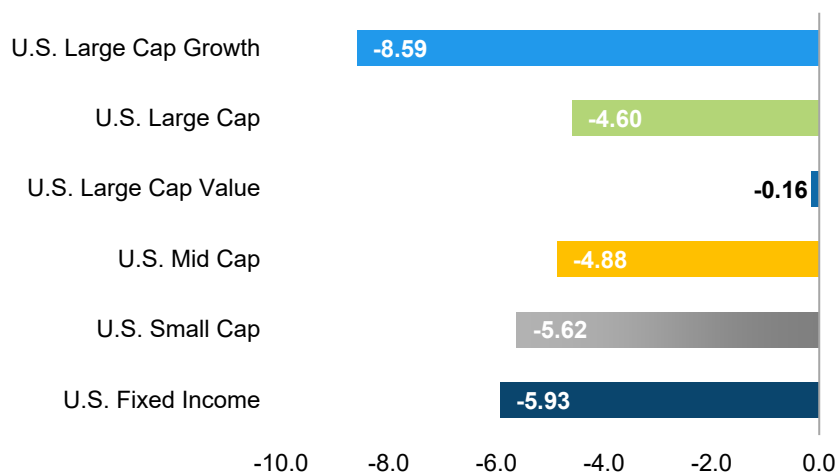
The bond market reaction has driven a dramatic shift in the yield curve. This has in turn resulted in the worst quarterly treasury bond performance in 50 years. Two-year Treasury yields rocketed from 0.73% to 2.44% while the 10-year bond rose from 1.52% to 2.38%, briefly creating an inverted yield curve, a sign of a potential recession. Corporate bond prices also plummeted, losing almost 8% of their value during the three-month period. The Fed's actions will likely impact employment and impede GDP growth in 2022. In January, the IMF trimmed its 2022 US growth forecast from 5.2% to 4.0%. China's growth has already slowed due to its troubled real estate market and technology regulation issues. And China's Zero Tolerance COVID restrictions are preventing supply resumptions from easing inflationary pressures.

The war will make inflation worse through much of 2022, but if the Fed's actions curtail the problem by later 2022 or early 2023 and employment remains healthy, slower economic growth will be worth it. In the meantime, expect the geopolitical risk and market volatility to remain elevated.

# Markets at a Glance

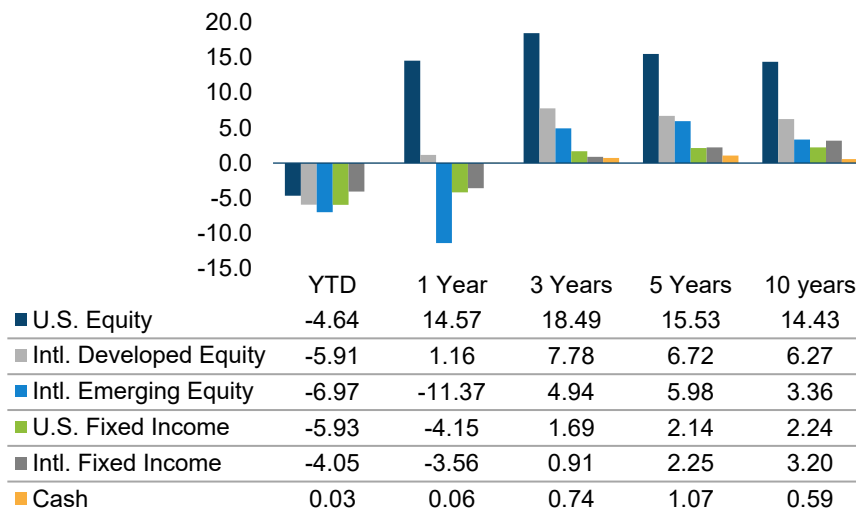
## U.S. Equity & Fixed Income Quarterly Performance

% Total Return USD



## Trailing Returns

% Total Return USD



**U.S. Equities:** The S&P 500, representing large cap equities, generated a loss of -4.60% in the first quarter, despite March's recovery, and still gained 15.65% in the past 12 months. Large cap value outperformed growth for the quarter (-0.16% to -8.59%) but underperformed for the year (12.58% to 18.16%). The S&P 500 sectors were led by energy for the quarter, which tacked on an outsized gain of 32% to follow its 54.6% return in 2021. Communication services were the worst performing sector in the first quarter, losing -11.1%. Small caps lost -5.62% in the last three months and gained 1.23% in the past year.

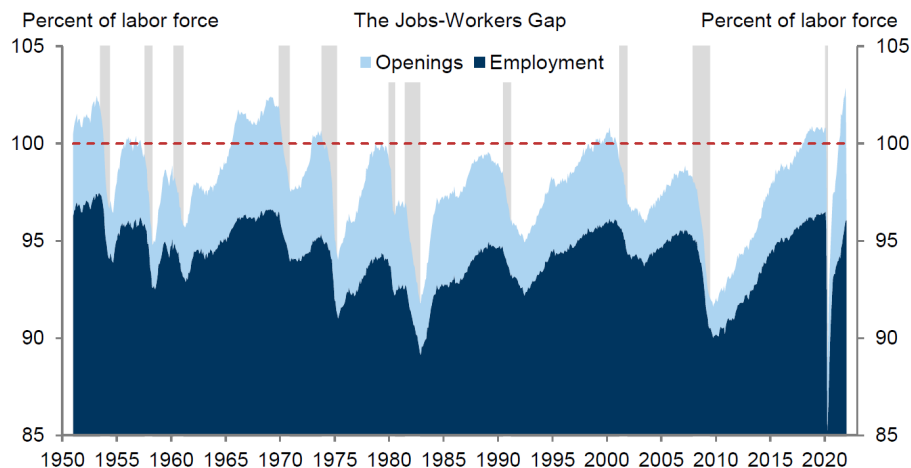
**International Equities:** The MSCI EAFE benchmark lost -5.91% in the first quarter, underperforming the S&P 500 by -1.31%, but managed a gain of 1.16% for the previous 12 months. EAFE was negatively impacted by Putin's invasion of Ukraine because of

Europe's Russian energy dependence. The MSCI Emerging Market Index was also hurt by the expected slowdown in China's GDP, losing -6.97% for the first quarter and -11.37% for the year.

**Fixed Income:** The Bloomberg Barclays Aggregate Index returned -5.93% in the first quarter and -4.15% for the past 12 months. The yield on the 10-year treasury bond climbed to 2.32% versus 1.52% three months ago. This was up substantially from the 0.93% at the end of 2020. Record GDP growth, low unemployment, and high inflation forced the Federal Reserve to reduce bond purchases and increase the number of expected rate increases. The ICE BofA US High Yield Index was negatively impacted by Russia's war, continued US inflation, and an expected growth slowdown, declining -4.51% in the first quarter and -0.29% for the past 12 months.

# Inflation Rises and Unemployment Declines

## The Tightest Job Market of the Postwar Period



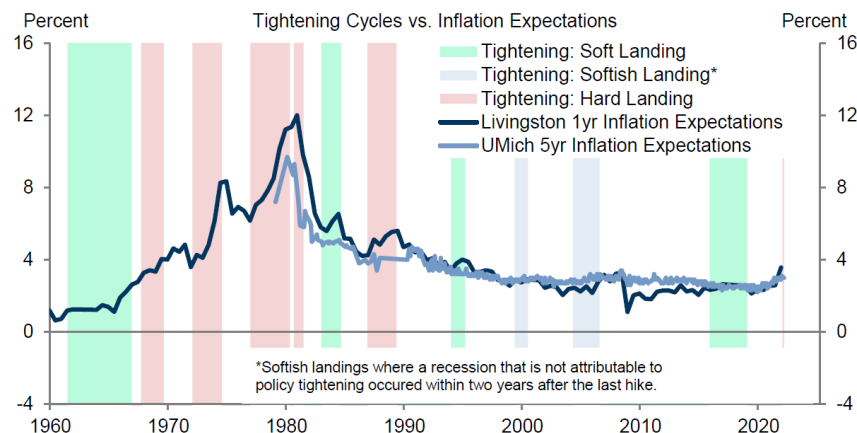
Source: Department of Labor, Goldman Sachs Global Investment Research

**GDP:** GDP increased at an annual rate of 6.9% in the fourth quarter, as the US started reopening in earnest, Omicron lethality waned, and travel and hospitality continued to recover. In 2021, GDP grew at 5.5%, the largest gain since 1984 and a sharp contrast with the -3.4% loss in 2020. The initial estimate for the first quarter's GDP will be announced at the end of April. The consensus for US growth in 2022 has declined from 3.8% to 3.2% because of the current geopolitical conflicts.

**Labor Market:** The unemployment rate continued its decline, dropping to 3.6% in March from 3.9% at the end of December and 6.7% a year ago. The recovery in travel and leisure jobs continues to lead other categories. Nearly 1.7 million jobs were added during the quarter, though employment remains 1.6 million below its pre-pandemic peak in February 2020. Wages grew 5.6% in the past 12 months but did not maintain pace with inflation. There are currently six million unemployed and 5.7 million discouraged workers who are not counted in the official

Source: Department of Labor, Goldman Sachs Global Investment Research. Data as of 3/31/2022.

## Soft landings have been more common in the US when inflation expectations are well-anchored



Source: Federal Reserve, University of Michigan, Goldman Sachs Global Investment Research

unemployment rate since they are not actively seeking work. Unemployment is not expected to rise significantly, even with expected interest rate increases.

**Inflation:** In March, CPI-U rose 1.2%, leaving the U.S. with a 12-month inflation rate of 8.5%, the highest annual result since 1981. Gasoline's 18.8% increase accounted for half of the month's overall inflation. Removing food and energy, Core CPI for March was only 0.3%, though for the past year it was still 6.5%. Shelter's 0.4% increase had the biggest impact on CORE inflation. Prices for automobiles and trucks, which had climbed 40% in the past year, declined by 3.8% in March as the semiconductor shortage began to ease. Given the hawkish Fed tone, the focus is on whether tightening monetary policy can be achieved without causing a recession. A decline in inflation readings in coming quarters would offer considerable support to stabilizing expectations, which in turn increases the chances of a 'soft landing.'

# Plan Legislative and Regulatory Update



## The House Advances SECURE Act 2.0

On March 29<sup>th</sup>, the House of Representatives passed [The Securing a Strong Retirement Act](#), H.R. 2954, also known as the Secure Act 2.0.<sup>1</sup> It builds on 2019's SECURE Act and passed the House with a bipartisan 414-5 vote.

Notable provisions in the House-passed SECURE Act 2.0 include the following<sup>2</sup>:

- Requiring automatic enrollment and escalation in newly created 401(k) and 403(b) plans.
- Increasing mandatory cash-out limit to \$7,000 from \$5,000 for de minimis accounts.
- Allowing employer matching contributions on student loan repayments.
- Increasing RMD age to age 73 in 2023, age 74 in 2030, and age 75 in 2033.
- Increasing catch-up contributions to \$10,000 for participants ages 62, 63, and 64 and requiring all catch-up contributions be made to Roth accounts.
- Permitting plan sponsors to allow employees to elect for matching contributions to be treated as Roth contributions.
- Permitting employee's self-certification for hardship withdrawals.
- Permitting employers to offer small financial incentives to encourage participation in 401(k) plans.

The bill still needs to pass through the Senate, where it is likely to be further modified, and be signed by President Biden before becoming law.

**Action Item:** Proposed legislation may be modified or adjusted before a final bill is passed; however, plan sponsors may want to begin reviewing the proposed provisions now.



## Supreme Court Rules on Excessive Fee Case

On January 24<sup>th</sup>, the Supreme Court issued a unanimous ruling in the case of [Hughes V. Northwestern University](#).<sup>3</sup> The case alleged that Northwestern breached their fiduciary duty by offering imprudent investments with higher fees than other materially identical investment products. The 7<sup>th</sup> Circuit had dismissed the case ruling that no fiduciary breach had occurred because participants had the ability to choose from a broad and varied menu of investment options.

The Supreme Court disagreed and sent the case back to the 7<sup>th</sup> Circuit to be reconsidered. The Supreme Court, which has rarely weighed in on the issue of excessive fees in retirement plans, stated that failing to remove an imprudent investment within a reasonable timeframe may constitute a breach of fiduciary duty. The opinion emphasized that fiduciaries have a duty to continually monitor all plan investments and that allegations such as this must be evaluated on a case-by-case basis.

**Action Item:** Plans must monitor fees and investment options on an ongoing basis. Imprudent investments should be removed in a timely manner by following best practices. Click [here](#) for research on plan menu design and insights on determining the optimal number of investment choices.

## DOL Issues Compliance Assistance on Cryptocurrency



On March 10<sup>th</sup>, the DOL published [compliance assistance](#) for 401(k) plan fiduciaries. In it, they alert fiduciaries to exercise "extreme care" when considering adding a cryptocurrency option to their plan's investment lineup.<sup>4</sup>

In a complementary [blog post](#), the DOL's Ali Khawar warns that cryptocurrencies present serious risks to retirement savings such as the following:

- Valuation concerns.
- Obstacles to making informed decisions.
- Prices can change quickly and dramatically.
- Evolving regulatory landscape.

NWCM's philosophy is to exclude single investments such as cryptocurrency in a defined contribution plan menu. We encourage you to remain up to date on the DOL guidance on the topic.

**Action Item:** If you are interested in pursuing cryptocurrency in your defined contribution plan, please consult an ERISA attorney.

For additional information and updates please check out the [Resources](#) page on the NWCM website.

And be sure to check out the latest in our ongoing [Plan Sponsor Best Practices](#) webinar series.

You can also find the latest retirement industry news posted on our social media pages, which are linked below.

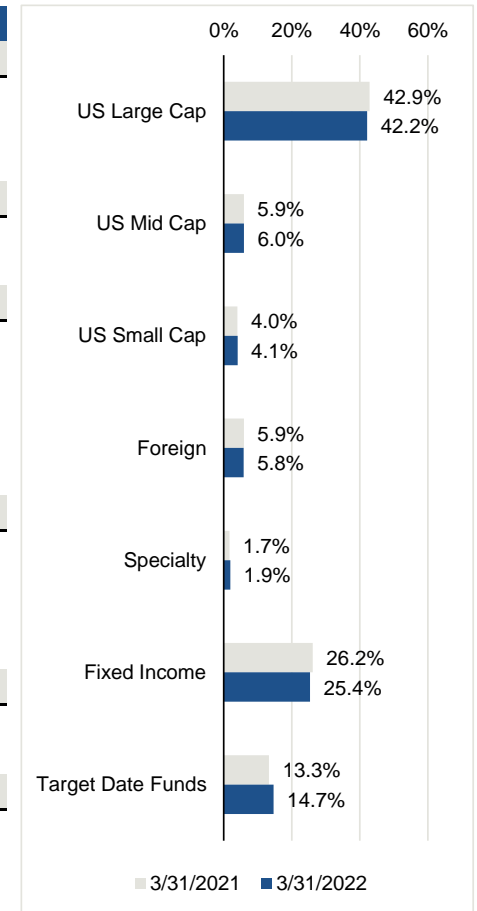


# County of Fresno 457 DC Plan

## Summary of Assets

As of 03/31/2022

Asset Class	Ticker	%	3/31/2021	Net Increases/Decreases	3/31/2022	%
<b>US Large Cap</b>		<b>42.90%</b>	<b>\$140,022,961</b>	<b>\$1,782,895</b>	<b>\$141,805,856</b>	<b>42.15%</b>
BlackRock Equity Index Fund M	02cff1	17.81%	\$58,147,647	\$6,275,489	\$64,423,136	19.15%
Alger Spectra Y	aspyx	19.61%	\$64,020,201	(\$6,870,246)	\$57,149,955	16.99%
Columbia Dividend Income Inst3	cddyx	5.47%	\$17,855,114	\$2,377,652	\$20,232,765	6.01%
<b>US Mid Cap</b>		<b>5.93%</b>	<b>\$19,350,811</b>	<b>\$688,180</b>	<b>\$20,038,991</b>	<b>5.96%</b>
BlackRock Mid Capitalization Equity Index Fund M	03cff2	3.32%	\$10,845,717	\$1,038,566	\$11,884,282	3.53%
T. Rowe Price Mid-Cap Growth I	rptix	2.61%	\$8,505,094	(\$350,385)	\$8,154,709	2.42%
<b>US Small Cap</b>		<b>4.02%</b>	<b>\$13,115,877</b>	<b>\$625,857</b>	<b>\$13,741,734</b>	<b>4.08%</b>
BlackRock Russell 2000 Index Fund M	03cff3	1.42%	\$4,630,259	(\$274,166)	\$4,356,093	1.29%
Alger Small Cap Focus Fund Class Y	aofyx	0.00%	\$0	\$7,206,504	\$7,206,504	2.14%
Nicholas Limited Edition I	nclex	2.27%	\$7,412,280	(\$7,412,280)	\$0	0.00%
Columbia Small Cap Value Fund II	crryx	0.00%	\$0	\$2,179,138	\$2,179,138	0.65%
Janus Henderson Small Cap Value N	jdsnx	0.33%	\$1,073,338	(\$1,073,338)	\$0	0.00%
<b>Foreign</b>		<b>5.94%</b>	<b>\$19,382,244</b>	<b>\$286,291</b>	<b>\$19,668,535</b>	<b>5.85%</b>
Vanguard Developed Markets Index Admiral	vtmgx	0.00%	\$0	\$4,688,516	\$4,688,516	1.39%
BlackRock EAFE Equity Index Fund T	10cff5	1.24%	\$4,038,982	(\$4,038,982)	\$0	0.00%
T. Rowe Price Overseas Stock I	troix	3.64%	\$11,868,791	\$390,046	\$12,258,837	3.64%
Invesco Developing Markets R6	odvix	1.06%	\$3,474,471	(\$753,288)	\$2,721,183	0.81%
<b>Specialty</b>		<b>1.71%</b>	<b>\$5,584,500</b>	<b>\$867,924</b>	<b>\$6,452,424</b>	<b>1.92%</b>
Fidelity Advisor Real Estate Income I	frirx	0.66%	\$2,165,001	\$351,864	\$2,516,866	0.75%
Franklin Utilities R6	fufrx	1.05%	\$3,419,499	\$516,060	\$3,935,559	1.17%
<b>Fixed Income</b>		<b>26.19%</b>	<b>\$85,497,734</b>	<b>-\$104,919</b>	<b>\$85,392,815</b>	<b>25.38%</b>
BlackRock US Debt Index Fund W	04cff4	2.48%	\$8,104,000	\$262,943	\$8,366,943	2.49%
Metropolitan West Total Return Bd Plan	mwtsx	2.17%	\$7,091,889	\$14,640	\$7,106,529	2.11%
Vanguard Total Intl Bd Idx Admiral	vtabx	0.51%	\$1,680,775	\$140,421	\$1,821,196	0.54%
Fresno County Stable Value	fressv	21.02%	\$68,621,070	(\$522,923)	\$68,098,147	20.24%
<b>Target Date Funds</b>		<b>13.32%</b>	<b>\$43,467,830</b>	<b>\$5,848,393</b>	<b>\$49,316,223</b>	<b>14.66%</b>
Great-West Lifetime 2015 Trust	grwl15	1.36%	\$4,428,476	(\$420,946)	\$4,007,530	1.19%
Great-West Lifetime 2020 Trust	grwl20	0.06%	\$187,309	\$12,992	\$200,300	0.06%
Great-West Lifetime 2025 Trust	grwl25	4.02%	\$13,113,204	(\$138,046)	\$12,975,158	3.86%
Great-West Lifetime 2030 Trust	grwl30	0.17%	\$569,506	\$1,256,768	\$1,826,274	0.54%
Great-West Lifetime 2035 Trust	grwl35	2.82%	\$9,217,571	\$1,856,326	\$11,073,897	3.29%
Great-West Lifetime 2040 Trust	grwl40	0.04%	\$140,341	(\$60,233)	\$80,108	0.02%
Great-West Lifetime 2045 Trust	grwl45	2.78%	\$9,085,925	\$1,647,595	\$10,733,520	3.19%
Great-West Lifetime 2050 Trust	grwl50	0.04%	\$129,048	\$83,543	\$212,591	0.06%
Great-West Lifetime 2055 Trust	grwl55	2.02%	\$6,596,450	\$1,590,325	\$8,186,774	2.43%
Great-West Lifetime 2060 Trust	grwl60	0.00%	\$0	\$20,069	\$20,069	0.01%
<b>Total</b>		<b>100%</b>	<b>\$326,421,958</b>	<b>\$9,994,622</b>	<b>\$336,416,579</b>	<b>100%</b>



# County of Fresno 457 DC Plan

## Investment Summary

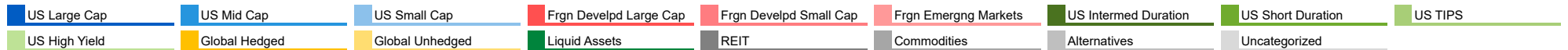
As of 3/31/2022

### Passively-Managed and Cash Funds

Investment	Ticker	Equities						Fixed Income						Liquid	Other				Exp	Qtr	YTD	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	10 Yr				
		US			Foreign			US			Foreign				R	C	A	U													
		L	M	S	L	S	E	I	S	T	Y	H	U																		
BlackRock Equity Index Fund M	02cff1	100																					0.02	-4.59	-4.59	11.60	32.12	17.55	15.50	15.20	14.25
BlackRock Mid Capitalization Equity Index Fund M	03cff2		100																				0.03	-4.98	-4.98	4.37	38.40	14.11	11.12	11.11	12.23
BlackRock Russell 2000 Index Fund M	03cff3			100																			0.03	-7.58	-7.58	-5.88	35.49	11.76	9.28	9.82	11.19
Vanguard Developed Markets Index Admiral	VTMGX				100																		0.07	-6.04	-6.04	0.72	23.30	8.55	5.07	7.16	6.68
BlackRock US Debt Index Fund W	04cff4							100															0.04	-5.82	-5.82	-4.07	-1.67	2.09	2.70	2.41	2.41
Vanguard Total Intl Bd Idx Admiral	VTABX											100											0.11	-5.02	-5.02	-4.93	-1.54	0.53	1.67	2.01	
Fresno County Stable Value	fressv												100										0.34	0.47	0.47	1.98	2.16	2.16	2.15	2.12	2.16

### Actively-Managed Funds

Style	Investment	Ticker	L	M	S	L	S	E	I	S	T	Y	H	U	C	R	C	A	U	Exp	Qtr	YTD	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	10 Yr
Income	Columbia Dividend Income Inst3	CDDYX	84	12		2									2					0.56	-2.59	-2.59	13.05	28.38	15.04	13.60	13.45	12.96
Growth	Alger Spectra Y	ASPYX	65	22	6	4		2							1					1.09	-15.55	-15.55	-4.05	25.27	16.17	14.91	16.25	
Growth	T. Rowe Price Mid-Cap Growth I	RPTIX	22	59	11	3									4				1	0.61	-11.23	-11.23	-0.78	28.63	12.93	12.07	13.67	13.76
Utilities	Franklin Utilities R6	FUFRX	39	49	5	6									1					0.50	5.53	5.53	20.80	19.96	11.47	13.67	10.85	11.38
Value	Columbia Small Cap Value II Inst3	CRRYX	1	11	79		1								4	2			2	0.83	-2.67	-2.67	8.60	49.69	15.31	10.32	9.73	11.31
Growth	Alger Small Cap Focus Y	AOFYX	2	27	63	1	3								3				1	0.83	-17.21	-17.21	-25.76	11.27	5.31	9.81	13.22	12.09
Blend	T. Rowe Price Overseas Stock I	TROIX	2			91	1	3							3					0.66	-6.33	-6.33	-0.64	23.70	8.87	4.85	7.23	6.65
Emerging Gr	Invesco Developing Markets R6	ODVIX				32		61							5				1	0.81	-15.68	-15.68	-22.36	9.26	0.68	-0.44	4.28	3.39
Intermediate	Metropolitan West Total Return Bd Plan	MWTSX							68	13		6	7	3					2	0.37	-6.23	-6.23	-4.49	-0.50	2.35	2.96	2.60	3.17
Real Estate	Fidelity Advisor Real Estate Income I	FRIRX	4	7	6				2			40		1	7	9		24		0.71	-3.42	-3.42	8.33	23.58	7.34	8.26	6.82	7.68





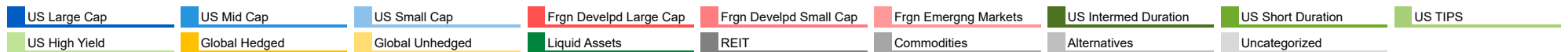
# County of Fresno 457 DC Plan

## Investment Summary









As of 3/31/2022

### Target-Date Funds

Style	Investment	Ticker	Equities						Fixed Income						Liquid	Other				Exp	Qtr	YTD	1 Yr	2 Yr	3 Yr	4 Yr	5 Yr	10 Yr
			US			Foreign			US			Foreign				R	C	A	U									
			L	M	S	L	S	E	I	S	T	Y	H	U														
Target Date	Great-West Lifetime 2015 Trust	GRWL15	17	8	4	10	3	20	8	13	5	5		4	3					0.39	-4.53	-4.53	2.43	13.70	7.93	6.94	7.10	6.56
Target Date	Great-West Lifetime 2020 Trust	GRWL20	19	8	5	12	4	21	6	9	5	5		3	3					0.39	-4.76	-4.76	2.49	14.81	8.14	7.15	7.46	
Target Date	Great-West Lifetime 2025 Trust	GRWL25	22	9	6	14	5	19	5	6	5	4		2	3					0.38	-5.02	-5.02	2.59	16.62	9.01	7.84	8.23	7.86
Target Date	Great-West Lifetime 2030 Trust	GRWL30	25	11	7	17	6	16	3	4	4	3		1	3					0.39	-5.25	-5.25	3.00	18.95	9.67	8.13	8.77	
Target Date	Great-West Lifetime 2035 Trust	GRWL35	29	12	8	21	7	11	1	2	2	2		1	4					0.38	-5.53	-5.53	3.45	21.84	10.79	9.16	9.88	9.20
Target Date	Great-West Lifetime 2040 Trust	GRWL40	30	13	10	23	9	8	1		2	1			3					0.40	-5.77	-5.77	3.93	24.34	11.53	9.36	10.25	
Target Date	Great-West Lifetime 2045 Trust	GRWL45	31	13	10	24	10	6			1	1			4					0.39	-5.93	-5.93	4.07	25.68	11.92	9.89	10.76	10.03
Target Date	Great-West Lifetime 2050 Trust	GRWL50	30	13	11	25	10	5			1	1			4					0.40	-5.99	-5.99	4.07	26.20	12.02	9.58	10.54	
Target Date	Great-West Lifetime 2055 Trust	GRWL55	29	13	11	25	11	5			1	1			4					0.40	-6.05	-6.05	3.86	26.19	11.87	9.73	10.69	9.89
Target Date	Great-West Lifetime 2060 Trust	GRWL60	29	13	11	25	11	5			1	1			4					0.40	-6.01	-6.01						



**CALCULATION METHODOLOGY OF OVERALL FUND** 1 (Worst) — 10 (Best)

Factor	Weight	Explanation	Score Calculation		
<p><b>RETURNS</b></p> <p>Summary compliance report shows the average peer group quartile rank for all time periods (no credit for bottom quartile performance)</p>	 <p>40% Overall</p>	<p><b>Absolute Returns</b></p> <p>Peer Group Percentile Rankings: 3,5,10 Year Periods</p>	<p><b>Proportional Score</b> Ranks in the top 75% of Peer Group</p>	<p><b>No Score</b> Ranks in the bottom 25% of Peer Group</p>	
<p><b>RISK ADJUSTED RETURNS</b></p> <p>Summary compliance report shows the average peer group quartile rank for all time periods (no credit for bottom quartile performance)</p>	 <p>20% Overall</p>	<p><b>Sharpe Ratio</b></p> <p>Peer Group Percentile Rankings: 3,5,10 Year Periods</p>	<p><b>Proportional Score</b> Ranks in top 75% of Peer Group</p>	<p><b>No Score</b> Ranks in bottom 25% of Peer Group</p>	
<p><b>RISK</b></p> <p>Summary compliance report shows the average peer group quartile rank for all time periods (no credit for bottom quartile performance)</p>	 <p>30% Overall</p>	 <p>10% Overall</p>	<p><b>Standard Deviation</b></p> <p>Peer Group Percentile Rankings: 3,5,10 Year Periods</p>	<p><b>Proportional Score</b> Ranks in top 75% of Peer Group</p>	<p><b>No Score</b> Ranks in bottom 25% of Peer Group</p>
		 <p>20% Overall</p>	<p><b>Upside/Downside Capture</b></p> <p>Peer Group Percentile Rankings: 3,5,10 Year Periods</p>	<p><b>Proportional Score</b> Ranks in top 75% of Peer Group</p>	<p><b>No Score</b> Ranks in bottom 25% of Peer Group</p>
<p><b>OTHER</b></p> <p>Fund expense quartile rank</p> <p>Manager tenure is greater than 3 years</p>	 <p>10% Overall</p>	 <p>5% Overall</p>	<p><b>Expense Ratio</b></p> <p>For current period</p>	<p><b>Proportional Score</b> Ranks in top 75% of Peer Group</p>	<p><b>No Score</b> Ranks in bottom 25% of Peer Group</p>
		 <p>5% Overall</p>	<p><b>Average Tenure</b></p> <p>Number of years</p>	<p><b>Full Score</b> Manager Tenure more than 3 years</p>	<p><b>No Score</b> Manager Tenure less than 3 years</p>

For peer group rankings, a rank of 1-50 indicates the manager performed favorably and ranked in the top half of its peer group for that metric. For example: when measuring risk, a rank of 1 would mean the manager had a very low standard deviation compared to its peer group, whereas when measuring return, a rank of 1 would mean the manager had a very high return compared to its peer group.



Summary of Fund Compliance

**Passively-Managed and Cash Funds**

Type	Assets %	Fund Name	Ticker
LC Index	19.15%	BlackRock Equity Index Fund M	02cff1
MC Index	3.53%	BlackRock Mid Capitalization Equity Index Fund M	03cff2
SC Index	1.29%	BlackRock Russell 2000 Index Fund M	03cff3
Int'l Index	1.39%	Vanguard Developed Markets Index Admiral	VTMGX
TB Index	2.49%	BlackRock US Debt Index Fund W	04cff4
Int'l Index	0.54%	Vanguard Total Intl Bd Idx Admiral	VTABX
Stable Value	20.24%	Fresno County Stable Value	fressv

\* This Investment has less than 3 years of performance data

**Actively-Managed Funds**

Underperforming ◀ ● ○ ● ▶ Outperforming

Status	Assets %	Fund Name	Ticker	Return (40%)	Risk Adjusted Return (20%)	Risk (30%)	Expense (5%)	Tenure (5%)
Watch	6.01%	Columbia Dividend Income Inst3	CDDYX	●	●	●	●	●
Recommended for Watch	16.99%	Alger Spectra Y	ASPYX	●	●	●	○	●
Pass	2.42%	T. Rowe Price Mid-Cap Growth I	RPTIX	○	●	●	●	●
Pass	1.17%	Franklin Utilities R6	FUFRX	●	●	●	●	●
Pass	0.65%	Columbia Small Cap Value II Inst3	CRRYX	●	●	●	●	●
Recommended for Watch	2.14%	Alger Small Cap Focus Y	AOFYX	○	●	○	●	●
Pass	3.64%	T. Rowe Price Overseas Stock I	TROIX	●	●	○	●	●
Recommended for Watch	0.81%	Invesco Developing Markets R6	ODVIX	○	○	○	●	●
Pass	2.11%	Metropolitan West Total Return Bd Plan	MWTSX	●	●	●	●	●
Watch	0.75%	Fidelity Advisor Real Estate Income I	FRIRX	●	○	●	●	●

\* This Investment has less than 3 years of performance data

County of Fresno 457 DC Plan

Fund Policy Compliance

As of 3/31/2022

Target-Date Funds

Underperforming ◀ (Yellow) (White) (Light Green) (Dark Green) ▶ Outperforming

Status	Assets %	Fund Name	Ticker	Return (40%)	Risk Adjusted Return (20%)	Risk (30%)	Expense (5%)	Tenure (5%)
Pass	1.19%	Great-West Lifetime 2015 Trust	GRWL15	Dark Green	Dark Green	Light Green	Light Green	Dark Green
Pass	0.06%	Great-West Lifetime 2020 Trust	GRWL20	Light Green	Dark Green	Light Green	Light Green	Yellow
Pass	3.86%	Great-West Lifetime 2025 Trust	GRWL25	Light Green	Dark Green	Light Green	Dark Green	Dark Green
Pass	0.54%	Great-West Lifetime 2030 Trust	GRWL30	Light Green	Light Green	Light Green	Dark Green	Yellow
Pass	3.29%	Great-West Lifetime 2035 Trust	GRWL35	Light Green	Dark Green	Light Green	Dark Green	Dark Green
Pass	0.02%	Great-West Lifetime 2040 Trust	GRWL40	Light Green	Light Green	Light Green	Dark Green	Yellow
Pass	3.19%	Great-West Lifetime 2045 Trust	GRWL45	Light Green	Light Green	Light Green	Dark Green	Dark Green
Pass	0.06%	Great-West Lifetime 2050 Trust	GRWL50	White	Light Green	White	Dark Green	Yellow
Pass	2.43%	Great-West Lifetime 2055 Trust	GRWL55	White	White	White	Light Green	Dark Green
	0.01%	Great-West Lifetime 2060 Trust*	GRWL60					

\* This Investment has less than 3 years of performance data

Passively-Managed and Cash Funds

Type of Fund	Assets %	Ticker	Fund Name	Return vs Peer Group (40%)			Risk Adjusted Return Sharpe (20%)			Standard Deviation			Risk (30%) Up Capture			Down Capture			Other (10%) Expense Tenure	
				3Y	5Y	10Y	3Y	5Y	10Y	3Y	5Y	10Y	3Y	5Y	10Y	3Y	5Y	10Y	Peer Rank %	Avg Yrs
				LC Index	19.15%	02cff1	BlackRock Equity Index Fund M	43	33	21	42	34	19	58	54	51	22	17	16	78
MC Index	3.53%	03cff2	BlackRock Mid Capitalization Equity Index Fund M	35	37	22	49	48	30	70	69	64	16	14	9	76	79	72	1	5
SC Index	1.29%	03cff3	BlackRock Russell 2000 Index Fund M	58	41	36	61	47	43	64	61	70	40	28	15	68	59	75	2	5
Int'l Index	1.39%	VTMGX	Vanguard Developed Markets Index Admiral	29	24	18	34	27	21	67	56	70	30	29	18	59	53	53	4	7
TB Index	2.49%	04cff4	BlackRock US Debt Index Fund W	6	2	1	13	9	3	86	86	81	11	8	8	67	58	53	3	5
Int'l Index	0.54%	VTABX	Vanguard Total Intl Bd Idx Admiral	61	33		53	15		12	12		78	64		34	32		2	9
table Valu	20.24%	fressv	Fresno County Stable Value	1	1	1	1	1	1	6	5	4	1	1	1	1	1	1	44	6

Actively-Managed Funds

Overall Fund Score	Assets %	Ticker	Fund Name	Return vs Peer Group (40%)			Risk Adjusted Return Sharpe (20%)			Standard Deviation			Risk (30%) Up Capture			Down Capture			Other (10%) Expense Tenure	
				3Y	5Y	10Y	3Y	5Y	10Y	3Y	5Y	10Y	3Y	5Y	10Y	3Y	5Y	10Y	Peer Rank %	Avg Yrs
				8	6.01%	CDDYX	Columbia Dividend Income Inst3	21	6	6	4	1	1	7	10	9	75	69	76	10
2	16.99%	ASPYX	Alger Spectra Y	78	74		83	81		81	79		70	59		74	84		64	7
5	2.42%	RPTIX	T. Rowe Price Mid-Cap Growth I	78	66	25	63	44	7	17	6	8	83	87	60	41	23	12	8	30
7	1.17%	FUFRX	Franklin Utilities R6	30	38	21	33	44	24	67	80	59	20	10	8	52	65	67	15	18
7	0.65%	CRRYX	Columbia Small Cap Value II Inst3	19	21	19	17	22	19	55	57	55	40	35	35	36	41	33	13	20
4	2.14%	AOFYX	Alger Small Cap Focus Y	97	49	53	97	62	67	65	85	75	90	47	60	79	54	37		7
7	3.64%	TROIX	T. Rowe Price Overseas Stock I	24	22	19	32	31	20	76	74	58	15	18	24	75	70	42	21	15
4	0.81%	ODVIX	Invesco Developing Markets R6	89	67	45	89	66	44	31	28	28	81	71	69	71	44	28	13	15
8	2.11%	MWTSX	Metropolitan West Total Return Bd Plan	30	28	13	17	15	5	26	28	24	64	52	38	21	27	18	13	23
4	0.75%	FRIRX	Fidelity Advisor Real Estate Income I	87	86	85	84	74	12	13	7	4	91	93	96	9	4	2	17	3

Target-Date Funds

Overall Fund Score	Assets %	Ticker	Fund Name	Return vs Peer Group (40%)			Risk Adjusted Return Sharpe (20%)			Standard Deviation			Risk (30%) Up Capture			Down Capture			Other (10%) Expense Tenure	
				3Y	5Y	10Y	3Y	5Y	10Y	3Y	5Y	10Y	3Y	5Y	10Y	3Y	5Y	10Y	Peer Rank %	Avg Yrs
				7	1.19%	GRWL15	Great-West Lifetime 2015 Trust	19	5	44	13	19	26	54	52	45	31	39	53	31
6	0.06%	GRWL20	Great-West Lifetime 2020 Trust	32	19		27	21		65	69		38	35		39	43		26	
7	3.86%	GRWL25	Great-West Lifetime 2025 Trust	30	22	29	16	13	11	41	42	32	49	44	66	27	33	27	23	5
6	0.54%	GRWL30	Great-West Lifetime 2030 Trust	43	40		31	25		42	41		63	59		32	36		24	
7	3.29%	GRWL35	Great-West Lifetime 2035 Trust	43	29	34	34	16	20	37	38	29	71	58	68	29	27	18	22	5
5	0.02%	GRWL40	Great-West Lifetime 2040 Trust	50	37		49	39		39	46		69	63		35	40		23	
6	3.19%	GRWL45	Great-West Lifetime 2045 Trust	61	34	28	54	32	24	39	43	36	79	61	60	29	31	31	25	5
5	0.06%	GRWL50	Great-West Lifetime 2050 Trust	61	47		54	44		35	39		79	67		26	41		24	
5	2.43%	GRWL55	Great-West Lifetime 2055 Trust	72	44	47	65	43	43	34	45	38	80	63	64	29	39	41	26	5
	0.01%	GRWL60	Great-West Lifetime 2060 Trust *																27	

\* This Investment has less than 3 years of performance data

All data except for 'Tenure - Average Years' are listed as a peer rank percentage

All Funds remain in compliance with Investment Policy and no action need be taken other than indicated in the Fund Compliance Commentary section of this report.

This report, along with more detailed performance data on Plan Investment Options, was reviewed by the Plan's Trustee and/or Investment Committee.



Northwest Capital Management, Inc. 04/29/2022

Trustee / Committee Member Date

**BlackRock Equity Index Fund M (02cff1)**

Fund Type: LC Index

US Large Cap

The fund seeks to replicate the performance of U.S. Large Cap Stocks

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
02cff1	-4.59%	11.60%	17.55%	15.20%	14.25%
S&P 500 TR USD	-4.60%	15.67%	18.94%	16.00%	14.64%
<b>Out/(Under) Performing</b>	<b>0.01%</b>	<b>-4.06%</b>	<b>-1.39%</b>	<b>-0.79%</b>	<b>-0.39%</b>
<b>Peer Group Ranking</b>	29	63	43	33	21

**BlackRock Mid Capitalization Equity Index Fund M (03cff2)**

Fund Type: MC Index

US Mid Cap

The fund seeks to replicate the performance of U.S. Mid Cap Stocks

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
03cff2	-4.98%	4.37%	14.11%	11.11%	12.23%
S&P MidCap 400 TR	-4.88%	4.59%	14.13%	11.10%	12.20%
<b>Out/(Under) Performing</b>	<b>-0.09%</b>	<b>-0.22%</b>	<b>-0.02%</b>	<b>0.01%</b>	<b>0.03%</b>
<b>Peer Group Ranking</b>	44	65	35	37	22

**BlackRock Russell 2000 Index Fund M (03cff3)**

Fund Type: SC Index

US Small Cap

The fund seeks to replicate the performance of U.S. Small Cap Stocks

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
03cff3	-7.58%	-5.88%	11.76%	9.82%	11.19%
Russell 2000 TR USD	-7.53%	-5.80%	11.74%	9.74%	11.04%
<b>Out/(Under) Performing</b>	<b>-0.04%</b>	<b>-0.09%</b>	<b>0.02%</b>	<b>0.09%</b>	<b>0.15%</b>
<b>Peer Group Ranking</b>	72	91	58	41	36

**Vanguard Developed Markets Index Admiral (VTMGX)**

Fund Type: Int'l Index

Frgn Developd Large Cap

The investment seeks to track the performance of the FTSE Developed All Cap ex US Index.

The fund employs an indexing investment approach designed to track the performance of the FTSE Developed All Cap ex US Index, a market-capitalization-weighted index that is made up of approximately 3865 common stocks of large-, mid-, and small-cap companies located in Canada and the major markets of Europe and the Pacific region. The adviser attempts to replicate the target index by investing all, or substantially all, of its assets in the stocks that make up the index, holding each stock in approximately the same proportion as its weighting in the index.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
VTMGX	-6.04%	0.72%	8.55%	7.16%	6.68%
FTSE Dvlp ex US All Cap(US RIC)NR USD	-5.27%	1.59%	8.89%	7.36%	6.57%
<b>Out/(Under) Performing</b>	<b>-0.77%</b>	<b>-0.87%</b>	<b>-0.34%</b>	<b>-0.21%</b>	<b>0.11%</b>
<b>Peer Group Ranking</b>	28	21	29	24	18

**BlackRock US Debt Index Fund W (04cff4)**

Fund Type: TB Index

US Intermed Duration

The fund seeks to replicate the performance of the U.S. Bond Market

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
04cff4	-5.82%	-4.07%	2.09%	2.41%	2.41%
Bloomberg US Govt Intern TR USD	-4.19%	-4.16%	1.04%	1.34%	1.28%
<b>Out/(Under) Performing</b>	<b>-1.62%</b>	<b>0.09%</b>	<b>1.06%</b>	<b>1.07%</b>	<b>1.13%</b>
<b>Peer Group Ranking</b>	96	26	6	2	1

**Vanguard Total Intl Bd Idx Admiral (VTABX)**

Fund Type: Int'l Index

Global Hedged

The investment seeks to track the performance of a benchmark index that measures the investment return of non-U.S. dollar-denominated investment-grade bonds.

The fund employs an indexing investment approach designed to track the performance of the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index (USD Hedged). This index provides a broad-based measure of the global, investment-grade, fixed-rate debt markets. It is non-diversified.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
VTABX	-5.02%	-4.93%	0.53%	2.01%	
Bloomberg Gbl Agg xUSD FI Aj RIC TR HUSD	-5.05%	-4.93%	0.67%	2.17%	
<b>Out/(Under) Performing</b>	<b>0.03%</b>	<b>0.00%</b>	<b>-0.15%</b>	<b>-0.16%</b>	
<b>Peer Group Ranking</b>	34	46	61	33	

**Fresno County Stable Value (fressv)**

Fund Type: Stable Value

Liquid Assets

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
fressv	0.47%	1.98%	2.16%	2.12%	2.16%
ICE BofA 0-3 M US Trsy Bill TR USD	0.03%	0.05%	0.74%	1.07%	0.59%
<b>Out/(Under) Performing</b>	<b>0.44%</b>	<b>1.93%</b>	<b>1.42%</b>	<b>1.05%</b>	<b>1.58%</b>
<b>Peer Group Ranking</b>	1	1	1	1	1

**Columbia Dividend Income Inst3 (CDDYX)**

Fund Score: 8 (Status: Watch)

US Large Cap

The investment seeks total return, consisting of current income and capital appreciation.

The fund invests at least 80% of its net assets (including the amount of any borrowings for investment purposes) in a diversified portfolio of income-producing (dividend-paying) equity securities, which will consist primarily of common stocks but also may include preferred stocks and convertible securities. It invests principally in securities of companies believed to be undervalued but also may invest in securities of companies believed to have the potential for long-term growth. The fund may invest in companies that have market capitalizations of any size.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
CDDYX	-2.59%	13.05%	15.04%	13.45%	12.96%
S&P 500 Value TR USD	-0.16%	12.56%	14.12%	11.13%	11.89%
<b>Out/(Under) Performing</b>	<b>-2.43%</b>	<b>0.50%</b>	<b>0.92%</b>	<b>2.32%</b>	<b>1.06%</b>
<b>Peer Group Ranking</b>	83	49	21	6	6

Columbia Dividend Income returned -2.6% in Q1 2022, compared to -0.2% for its benchmark (the S&P 500 Value). For the trailing year, the fund returned 13.1%, compared to 12.6% for its benchmark. Stock selection within financials was the largest detractor this quarter, notably a lack of exposure to Berkshire Hathaway, which is not held by the fund as it does not pay a dividend. JPMorgan Chase was a leading detractor this quarter, following disappointing guidance released in January. However, management maintained their position in JPMorgan Chase due to the company's commitment to digital and mobile investments, which they believe will support further expansion of the franchise. The primary contributor to performance this quarter was an overweight to energy, which continues to benefit from the rise in oil and gas prices. Positions in Chevron and Exxon Mobil, among others, were additive to performance. Looking forward, management expects heightened macroeconomic and geopolitical uncertainty. In response, they believe portfolio diversification is critical. Management remains focused on identifying consistent businesses that are able to handle rising inflation and interest rates. The fund was placed on watch beginning in Q1 2021 due to the departure of Peter Santoro, one of the fund's three portfolio managers. The fund continues to be managed by the remaining portfolio managers Scott Davis and Michael Barclay. The fund currently scores an 8 under our scoring methodology and its risk-adjusted returns rank in the top decile of its peers over the trailing 3yr, 5yr and 10yr periods.

### Alger Spectra Y (ASPYX)

Fund Score: 2 (Status: Recommended for Watch)

US Large Cap

The investment seeks long-term capital appreciation.

The fund invests primarily in the equity securities of companies of any size that the manager believes demonstrate promising growth potential. Equity securities include common or preferred stocks that are listed on U.S. or foreign exchanges. It may invest a significant portion of its assets in securities of companies conducting business within a single sector, including the information technology, consumer discretionary, healthcare, and communication services sectors.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
ASPYX	-15.55%	-4.05%	16.17%	16.25%	
S&P 500 Growth TR USD	-8.59%	18.16%	22.47%	19.92%	16.80%
<b>Out/(Under) Performing</b>	<b>-6.95%</b>	<b>-22.21%</b>	<b>-6.30%</b>	<b>-3.67%</b>	
<b>Peer Group Ranking</b>	91	87	78	74	

Alger Spectra returned -15.6% for the trailing quarter ending 3/31/22 compared to -8.6% for its benchmark (the S&P 500 Growth Index). For the trailing year, the fund returned -4.1% compared to 18.2% for the benchmark. Information Technology, the largest portfolio sector weight, was one of the most significant detractors from performance. More specifically Shopify, Inc., a cloud-based software platform for small and medium-sized businesses, performed poorly after the company announced plans to reinvest profits into research and development, hiring personnel, and introducing marketing programs, an investment greater than expected by shareholders. Healthcare, the fund's largest sector overweight, was another leading detractor, specifically the specialty lab testing stock Natera. For our part, we are concerned with performance and are considering a potential fund replacement with a large cap growth manager offering a more attractive risk and return profile. The fund scores a 2 under our scoring methodology, with risk adjusted returns ranking below median over the 3yr, 5yr, and 10yr trailing time periods.

### T. Rowe Price Mid-Cap Growth I (RPTIX)

Fund Score: 5 (Status: Pass)

US Mid Cap

The investment seeks long-term capital appreciation.

The fund normally invests at least 80% of its net assets (including any borrowings for investment purposes) in a diversified portfolio of common stocks of mid-cap companies whose earnings T. Rowe Price expects to grow at a faster rate than the average company. The advisor defines mid-cap companies as those whose market capitalization falls within the range of either the S&P MidCap 400 Index or the Russell Midcap Growth Index. While most assets will typically be invested in U.S. common stocks, the fund may invest in foreign stocks in keeping with the fund's objectives.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
RPTIX	-11.23%	-0.78%	12.93%	13.67%	13.76%
S&P MidCap 400 Growth TR USD	-9.03%	-0.36%	13.42%	11.40%	11.98%
<b>Out/(Under) Performing</b>	<b>-2.20%</b>	<b>-0.42%</b>	<b>-0.48%</b>	<b>2.27%</b>	<b>1.78%</b>
<b>Peer Group Ranking</b>	29	28	78	66	25

T. Rowe Price Mid-Cap Growth I returned -11.2% in Q1 2022 compared to the -9.0% loss for its benchmark (S&P MidCap 400 Growth). For the trailing four quarter period, the fund returned -0.8% compared to -0.4% for the benchmark. Major headwinds to comparative performance this quarter were the fund's allocation strategy in the basic materials, energy, and consumer discretionary sectors (being underweight the first two and overweight the last). Management also suffered from technology security picks when comparing returns to the benchmark. By individual stocks in the portfolio, investments in Rivian Automotive Inc, Burlington Stores, and Marvell Technology ate into performance the most. Rivian Automotive was hurt by the departure of its COO, as well as significant supply chain disruption and increasing competition. Burlington Stores, on the other hand, was affected by recent execution missteps and shipping delays. Management maintains a favorable long-term view of both companies. Looking ahead, the team, led by Brian Berghuis, believes that while there are signs that a correction in the most expensive, growth-at-any-price stocks has begun, it is likely still in the early innings. Their focus remains on owning quality companies with durable growth prospects and prudent balance sheets, combatting a market which they see as similar to the stages of the tech bubble. The fund's score remains a 5 under our methodology. Its risk-adjusted returns rank in the top decile relative to its peers for the trailing 10yr period.

**Franklin Utilities R6 (FUFRX)**

Fund Score: 7 (Status: Pass)

US Large Cap

The investment seeks capital appreciation and current income.

The fund normally invests at least 80% of its net assets in the securities of public utilities companies. These are companies that provide electricity, natural gas, water, and communications services to the public and companies that provide services to public utilities companies. It concentrates (invests more than 25% of its total assets) in companies operating in the utilities industry. The fund invests primarily in equity securities, which consist mainly of common stocks.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
FUFRX	5.53%	20.80%	11.47%	10.85%	11.38%
MSCI World/Utilities NR USD	1.32%	10.78%	9.10%	9.22%	7.86%
<b>Out/(Under) Performing</b>	<b>4.21%</b>	<b>10.02%</b>	<b>2.37%</b>	<b>1.63%</b>	<b>3.52%</b>
<b>Peer Group Ranking</b>	23	16	30	38	21

**Columbia Small Cap Value II Inst3 (CRRYX)**

Fund Score: 7 (Status: Pass)

US Small Cap

The investment seeks long-term capital appreciation.

Under normal circumstances, the fund invests at least 80% of its net assets (including the amount of any borrowings for investment purposes) in equity securities of companies that have market capitalizations in the range of the companies in the Russell 2000 Value Index at the time of purchase that the fund's investment manager believes are undervalued and have the potential for long-term growth. It may invest up to 20% of its total assets in foreign securities, including depositary receipts. The fund normally invests in common stocks and also may invest in real estate investment trusts.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
CRRYX	-2.67%	8.60%	15.31%	9.73%	11.31%
Russell 2000 Value TR USD	-2.40%	3.32%	12.73%	8.57%	10.54%
<b>Out/(Under) Performing</b>	<b>-0.27%</b>	<b>5.28%</b>	<b>2.58%</b>	<b>1.16%</b>	<b>0.77%</b>
<b>Peer Group Ranking</b>	50	26	19	21	19

**Alger Small Cap Focus Y (AOFYX)**

Fund Score: 4 (Status: Recommended for Watch)

US Small Cap

The investment seeks long-term capital appreciation.

The fund normally invests at least 80% of its net assets, plus any borrowings for investment purposes, in equity securities of companies that, at the time of purchase of the securities, have total market capitalization between (1) the higher of (a) \$5 billion or (b) the company in either the Russell 2000 Growth Index or the MSCI USA Small Cap Index with the highest capitalization, and (2) the company in either index with the lowest capitalization, at any time during the most recent 12-month period as reported by either index. Both indexes are broad-based indexes of small capitalization stocks.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
AOFYX	-17.21%	-25.76%	5.31%	13.22%	12.09%
Russell 2000 Growth TR USD	-12.62%	-14.32%	9.89%	10.33%	11.22%
<b>Out/(Under) Performing</b>	<b>-4.59%</b>	<b>-11.44%</b>	<b>-4.58%</b>	<b>2.89%</b>	<b>0.87%</b>
<b>Peer Group Ranking</b>	86	97	97	49	53



### T. Rowe Price Overseas Stock I (TROIX)

Fund Score: 7 (Status: Pass)

Frgn Developd Large Cap

The investment seeks long-term growth of capital through investments in the common stocks of non-U.S. companies.

The manager expects to invest significantly outside the U.S. and to diversify broadly among developed market and, to a lesser extent, emerging market countries throughout the world. It normally invests at least 80% of its net assets (including any borrowings for investment purposes) in non-U.S. stocks and at least 65% of its net assets in stocks of large-cap companies.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
TROIX	-6.33%	-0.64%	8.87%	7.23%	6.65%
MSCI ACWI Ex USA NR USD	-5.45%	-1.48%	7.51%	6.76%	5.55%
<b>Out/(Under) Performing</b>	<b>-0.89%</b>	<b>0.84%</b>	<b>1.36%</b>	<b>0.46%</b>	<b>1.10%</b>
<b>Peer Group Ranking</b>	35	40	24	22	19

T. Rowe Price Overseas Stock I returned -6.3% in Q1 2022, compared to -5.5% for its benchmark (the MSCI ACWI Ex USA Index). For the trailing year, the fund returned -0.6%, while its benchmark returned -1.5%. On a regional basis, developed Europe detracted from relative performance largely due to stock selection. Negative selection in the UK was also a detractor, as several large holdings posted disappointing returns. An underweight to China contributed to relative returns. On a sector basis, poor stock selection in financials hurt relative returns. The financials sector represents the fund's largest allocation in absolute terms. This quarter, management added to several of its holdings in the financials sector, electing to start a new position in Canadian insurer Manulife Financial, while eliminating their position in UK insurer Aviva. Positive selection in health care contributed to relative results. Notable contributors included AstraZeneca PLC ADR, Bayer AG, and Ipsen SA. Management's allocation approach remains driven by individual stock selection decisions. Looking forward, management is pessimistic on the Fed's ability to rein in inflation without causing a major growth slowdown. Management believes there is a high likelihood that we will see higher energy volatility and worsening supply chain problems. Although there is a trend towards re-shoring and de-globalization, management believes this will prove difficult due to labor shortages in the U.S. and Europe and supply chain constraints. The fund currently scores a 7 under our methodology. The fund's returns rank in the top quartile of its peers over the trailing 3yr, 5yr, and 10yr periods.

### Invesco Developing Markets R6 (ODVIX)

Fund Score: 4 (Status: Recommended for Watch)

Frgn Emergng Markets

The investment seeks capital appreciation.

The fund mainly invests in common stocks of issuers in developing and emerging markets throughout the world and at times it may invest up to 100% of its total assets in foreign securities. Under normal market conditions, it will invest at least 80% of its net assets, plus borrowings for investment purposes, in equity securities of issuers whose principal activities are in a developing market, i.e. are in a developing market or are economically tied to a developing market country, and in derivatives and other instruments that have economic characteristics similar to such securities.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
ODVIX	-15.68%	-22.36%	0.68%	4.28%	3.39%
MSCI EM NR USD	-6.97%	-11.36%	4.95%	5.98%	3.36%
<b>Out/(Under) Performing</b>	<b>-8.71%</b>	<b>-11.00%</b>	<b>-4.26%</b>	<b>-1.70%</b>	<b>0.03%</b>
<b>Peer Group Ranking</b>	87	88	89	67	45

Invesco Developing Markets returned -15.7% in Q1 2022 compared to -7.0% for its benchmark (the MSCI Emerging Markets Index). For the last 12 months, the fund returned -22.4% compared to -11.4% for the benchmark. Russia's invasion of Ukraine earlier this year greatly impacted the fund's performance when compared to its relative benchmark, as the fund is overweight the Moscow-headed country. Investments in China, even though the fund is underweight the region, also detracted from overall performance. By sector, energy was the largest negative, followed by financials and communication services. Leading individual detractors were Novatek and Yandex, both based out of Russia, and Tencent Holdings, arguably the most influential internet firm in China. Management remains convicted in Novatek in particular, believing the firm has considerable growth options in its portfolio of liquified natural gas projects. They attribute the company's underperformance to Russian equities being devastated by global sanctions imposed on the country following its invasion of Ukraine. Management, headed by Justin Leverenz since 2007, holds that during this period of crisis and uncertainty, the team remains focused on understanding the macroeconomic pressures that are idiosyncratic to emerging markets. Leverenz uses a moderate growth approach and tries to envision how companies might change in the future to take advantage of different conditions or unforeseen opportunities. The fund score fell to a 4 under NWCM's methodology and was placed on Watch. Its risk-adjusted returns rank in the top half relative to peers for the trailing 10yr period.

**Metropolitan West Total Return Bd Plan (MWTSX)**

Fund Score: 8 (Status: Pass)

US Intermed Duration

The investment seeks to maximize long-term total return.

The fund pursues its objective by investing, under normal circumstances, at least 80% of its net assets in investment grade fixed income securities or unrated securities determined by the Adviser to be of comparable quality. Up to 20% of the fund's net assets may be invested in securities rated below investment grade or unrated securities determined by the Adviser to be of comparable quality. The fund also invests at least 80% of its net assets plus borrowings for investment purposes in fixed income securities it regards as bonds.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
MWTSX	-6.23%	-4.49%	2.35%	2.60%	3.17%
Bloomberg US Agg Bond TR USD	-5.93%	-4.15%	1.70%	2.15%	2.24%
<b>Out/(Under) Performing</b>	<b>-0.30%</b>	<b>-0.34%</b>	<b>0.65%</b>	<b>0.45%</b>	<b>0.92%</b>
<b>Peer Group Ranking</b>	70	63	30	28	13

Metropolitan West Total Return Bond returned -6.2% for the trailing quarter ending 3/31/22 compared to -5.9% for its benchmark (the BBgBarc US Agg Bond Index). For the trailing year, the fund returned -4.5% compared to -4.2% for the benchmark. The fund's relatively short duration was a tailwind for performance. Underweight positioning to corporate credit contributed to outperformance as risk premiums increased slightly during the quarter. Purchases focused on longer term bonds from high quality issuers within a variety of sectors, which was a minor headwind to performance as positions were added while yield spreads widened. Overweights to residential MBS, CMBS, and ABS also detracted modestly from relative performance. Looking forward, management sees an increased potential for recession in the next 12-18 months and will remain mindful to adding duration given the potential for interest rate movements. For our part, we will continue to monitor the fund's performance. The fund scores a 8 under our scoring methodology and risk adjusted returns rank in the top quartile over the 3yr, 5yr, and 10yr trailing time periods.

**Fidelity Advisor Real Estate Income I (FRIRX)**

Fund Score: 4 (Status: Watch)

REIT

The investment seeks higher than average income; and capital growth is the secondary objective.

The fund normally invests primarily in preferred and common stocks of REITs; debt securities of real estate entities; and commercial and other mortgage-backed securities, with an emphasis on lower-quality debt securities (those of less than investment-grade quality, also referred to as high yield debt securities or junk bonds). It invests at least 80% of assets in securities of companies principally engaged in the real estate industry and other real estate related investments. The fund invests in domestic and foreign issuers.

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
FRIRX	-3.42%	8.33%	7.34%	6.82%	7.68%
FTSE Nareit Equity REITs TR USD	-3.86%	26.49%	11.13%	9.53%	9.76%
<b>Out/(Under) Performing</b>	<b>0.44%</b>	<b>-18.16%</b>	<b>-3.78%</b>	<b>-2.72%</b>	<b>-2.08%</b>
<b>Peer Group Ranking</b>	22	92	87	86	85

Fidelity Real Estate Income returned -3.4% for the trailing quarter ending 3/31/22 compared to -3.9% for its benchmark (the FTSE Nareit Equity REITs Index). For the trailing year, the fund returned 8.3% compared to 26.5% for the benchmark. The biggest contributor to fund performance was the portfolio's low duration bonds, a tailwind from the holdings' sensitivity to interest rates. Security selection within the portfolio's equity holdings was a detractor to fund performance. Fund performance overall was boosted by the fund's cash allocation, historically between 5-10%, being at 8% for the quarter. From our perspective, we are pleased with performance considering the portfolio represents a mix of equities and bonds, offering risk protection, with the expectation that it would perform differently than the 100% equity benchmark. The fund scores a 4 under our scoring methodology, with standard deviation risk ranking in the top decile over the trailing 3yr, 5yr, and 10yr time periods.

**Great-West Lifetime 2015 Trust (GRWL15)**

Fund Score: 7 (Status: Pass)

Uncategorized

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
GRWL15	-4.53%	2.43%	7.93%	7.10%	6.56%
DJ Target 2015 TR USD	-5.47%	-3.53%	2.60%	3.14%	3.50%
<b>Out/(Under) Performing</b>	<b>0.93%</b>	<b>5.96%</b>	<b>5.33%</b>	<b>3.96%</b>	<b>3.06%</b>
<b>Peer Group Ranking</b>	34	24	19	5	44

**Great-West Lifetime 2030 Trust (GRWL30)**

Fund Score: 6 (Status: Pass)

Uncategorized

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
GRWL30	-5.25%	3.00%	9.67%	8.77%	
DJ Target 2030 TR USD	-5.30%	-0.30%	6.66%	6.59%	6.86%
<b>Out/(Under) Performing</b>	<b>0.05%</b>	<b>3.30%</b>	<b>3.02%</b>	<b>2.18%</b>	
<b>Peer Group Ranking</b>	15	26	43	40	

**Great-West Lifetime 2020 Trust (GRWL20)**

Fund Score: 6 (Status: Pass)

Uncategorized

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
GRWL20	-4.76%	2.49%	8.14%	7.46%	
DJ Target 2020 TR USD	-5.42%	-2.79%	3.60%	4.06%	4.47%
<b>Out/(Under) Performing</b>	<b>0.67%</b>	<b>5.28%</b>	<b>4.55%</b>	<b>3.40%</b>	
<b>Peer Group Ranking</b>	32	19	32	19	

**Great-West Lifetime 2035 Trust (GRWL35)**

Fund Score: 7 (Status: Pass)

Uncategorized

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
GRWL35	-5.53%	3.45%	10.79%	9.88%	9.20%
DJ Target 2035 TR USD	-5.19%	1.11%	8.31%	7.86%	7.96%
<b>Out/(Under) Performing</b>	<b>-0.33%</b>	<b>2.35%</b>	<b>2.48%</b>	<b>2.01%</b>	<b>1.23%</b>
<b>Peer Group Ranking</b>	20	36	43	29	34

**Great-West Lifetime 2025 Trust (GRWL25)**

Fund Score: 7 (Status: Pass)

Uncategorized

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
GRWL25	-5.02%	2.59%	9.01%	8.23%	7.86%
DJ Target 2025 TR USD	-5.42%	-1.70%	5.01%	5.23%	5.62%
<b>Out/(Under) Performing</b>	<b>0.40%</b>	<b>4.28%</b>	<b>4.00%</b>	<b>3.00%</b>	<b>2.24%</b>
<b>Peer Group Ranking</b>	25	21	30	22	29

**Great-West Lifetime 2040 Trust (GRWL40)**

Fund Score: 5 (Status: Pass)

Uncategorized

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
GRWL40	-5.77%	3.93%	11.53%	10.25%	
DJ Target 2040 TR USD	-5.08%	2.48%	9.85%	9.02%	8.89%
<b>Out/(Under) Performing</b>	<b>-0.69%</b>	<b>1.45%</b>	<b>1.68%</b>	<b>1.22%</b>	
<b>Peer Group Ranking</b>	25	47	50	37	

**Great-West Lifetime 2045 Trust (GRWL45)**

Fund Score: 6 (Status: Pass)

Uncategorized

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
GRWL45	-5.93%	4.07%	11.92%	10.76%	10.03%
DJ Target 2045 TR USD	-5.01%	3.58%	11.09%	9.92%	9.55%
<b>Out/(Under) Performing</b>	<b>-0.93%</b>	<b>0.48%</b>	<b>0.82%</b>	<b>0.84%</b>	<b>0.48%</b>
<b>Peer Group Ranking</b>	32	54	61	34	28

**Great-West Lifetime 2060 Trust (GRWL60)**

Fund Score: 9 (Status: Pass)

Uncategorized

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
GRWL60	-6.01%				
DJ Target 2060 TR USD	-4.92%	4.68%	12.22%	10.66%	9.97%
<b>Out/(Under) Performing</b>	<b>-1.09%</b>				
<b>Peer Group Ranking</b>	34				

**Great-West Lifetime 2050 Trust (GRWL50)**

Fund Score: 5 (Status: Pass)

Uncategorized

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
GRWL50	-5.99%	4.07%	12.02%	10.54%	
DJ Target 2050 TR USD	-4.95%	4.36%	11.91%	10.47%	9.87%
<b>Out/(Under) Performing</b>	<b>-1.04%</b>	<b>-0.29%</b>	<b>0.12%</b>	<b>0.07%</b>	
<b>Peer Group Ranking</b>	35	53	61	47	

**Great-West Lifetime 2055 Trust (GRWL55)**

Fund Score: 5 (Status: Pass)

Uncategorized

Trailing Returns	1 Qtr	1 Yr	3 Yr	5 Yr	10 Yr
GRWL55	-6.05%	3.86%	11.87%	10.69%	9.89%
DJ Target 2055 TR USD	-4.92%	4.66%	12.21%	10.66%	9.97%
<b>Out/(Under) Performing</b>	<b>-1.13%</b>	<b>-0.80%</b>	<b>-0.35%</b>	<b>0.03%</b>	<b>-0.07%</b>
<b>Peer Group Ranking</b>	36	55	72	44	47



# County of Fresno 457 DC Plan

Expense Ratio Report (Entity)

As of 3/31/2022

## Passively-Managed and Cash Funds

Investment	Ticker	Expense Ratio▲	Peer Rank	Range of Peer Group Expense Ratios							
				0%	0.5%	1%	1.5%	2%	2.5%	3%	
64,423,136 BlackRock Equity Index Fund M	02cff1	0.02%	2	▲							
11,884,282 BlackRock Mid Capitalization Equity Index Fund M	03cff2	0.03%	1	▲							
4,356,093 BlackRock Russell 2000 Index Fund M	03cff3	0.03%	2	▲							
4,688,516 Vanguard Developed Markets Index Admiral	VTMGX	0.07%	4	▲							
8,366,943 BlackRock US Debt Index Fund W	04cff4	0.04%	3	▲							
1,821,196 Vanguard Total Intl Bd Idx Admiral	VTABX	0.11%	2	▲							
68,098,147 Fresno County Stable Value	fressv	0.34%	44	▲							

## Actively-Managed Funds

20,232,765 Columbia Dividend Income Inst3	CDDYX	0.56%	15	▲							
57,149,955 Alger Spectra Y	ASPYX	1.09%	64	▲							
8,154,709 T. Rowe Price Mid-Cap Growth I	RPTIX	0.61%	8	▲							
3,935,559 Franklin Utilities R6	FUFRX	0.50%	15	▲							
2,179,138 Columbia Small Cap Value II Inst3	CRRYX	0.83%	13	▲							
7,206,504 Alger Small Cap Focus Y	AOFYX	0.83%	1	▲							
12,258,837 T. Rowe Price Overseas Stock I	TROIX	0.66%	21	▲							
2,721,183 Invesco Developing Markets R6	ODVIX	0.81%	13	▲							
7,106,529 Metropolitan West Total Return Bd Plan	MWTSX	0.37%	13	▲							
2,516,866 Fidelity Advisor Real Estate Income I	FRIRX	0.71%	17	▲							

## Target-Date Funds

4,007,530 Great-West Lifetime 2015 Trust	3RWL15	0.39%	32	▲							
200,300 Great-West Lifetime 2020 Trust	3RWL20	0.39%	26	▲							
12,975,158 Great-West Lifetime 2025 Trust	3RWL25	0.38%	23	▲							
1,826,274 Great-West Lifetime 2030 Trust	3RWL30	0.39%	24	▲							
11,073,897 Great-West Lifetime 2035 Trust	3RWL35	0.38%	22	▲							
80,108 Great-West Lifetime 2040 Trust	3RWL40	0.40%	23	▲							
10,733,520 Great-West Lifetime 2045 Trust	3RWL45	0.39%	25	▲							
212,591 Great-West Lifetime 2050 Trust	3RWL50	0.40%	24	▲							
8,186,774 Great-West Lifetime 2055 Trust	3RWL55	0.40%	26	▲							
20,069 Great-West Lifetime 2060 Trust	3RWL60	0.40%	27	▲							

336,416,579

Expense Ratio Averages

0.43%

18

Weighted Average Gross Expense Ratio: 0.44%

## Your Plan

	Bal Weighted Avg	1st Quartile	2nd Quartile	3rd Quartile	4th Quartile
Expense Ratio	0.44%	85.2%(23)	11.1%(3)	3.7%(1)	-

# County of Fresno 457 DC Plan

As of: 3/31/2022

## Investment Fund Performance Report

Retirement Date	Investment	3-Mo	1 Yr	2 Yr *	3 Yr *	5 Yr *	Expense Ratio
2015	Great-West Lifetime 2015 Trust	-4.53	2.43	13.7	7.93	7.1	0.39
	Morningstar Lifetime Mod 2015 TR USD	-5.26	2.56	12.57	7.76	7.00	
	Benchmark +/-	0.73	-0.13	1.13	0.17	0.10	
2020	Great-West Lifetime 2020 Trust	-4.76	2.49	14.81	8.14	7.46	0.39
	Morningstar Lifetime Mod 2020 TR USD	-5.67	2.69	13.80	8.26	7.49	
	Benchmark +/-	0.91	-0.20	1.01	-0.12	-0.03	
2025	Great-West Lifetime 2025 Trust	-5.02	2.59	16.62	9.01	8.23	0.38
	Morningstar Lifetime Mod 2025 TR USD	-5.93	2.92	15.58	8.85	8.06	
	Benchmark +/-	0.91	-0.33	1.04	0.16	0.17	
2030	Great-West Lifetime 2030 Trust	-5.25	3	18.95	9.67	8.77	0.39
	Morningstar Lifetime Mod 2030 TR USD	-5.98	3.33	18.24	9.60	8.76	
	Benchmark +/-	0.73	-0.33	0.71	0.07	0.01	
2035	Great-West Lifetime 2035 Trust	-5.53	3.45	21.84	10.79	9.88	0.38
	Morningstar Lifetime Mod 2035 TR USD	-5.83	3.89	21.45	10.42	9.45	
	Benchmark +/-	0.30	-0.44	0.39	0.37	0.43	
2040	Great-West Lifetime 2040 Trust	-5.77	3.93	24.34	11.53	10.25	0.4
	Morningstar Lifetime Mod 2040 TR USD	-5.60	4.46	24.31	11.13	9.98	
	Benchmark +/-	-0.17	-0.53	0.03	0.40	0.27	
2045	Great-West Lifetime 2045 Trust	-5.93	4.07	25.68	11.92	10.76	0.39
	Morningstar Lifetime Mod 2045 TR USD	-5.44	4.80	26.05	11.54	10.25	
	Benchmark +/-	-0.49	-0.73	-0.37	0.38	0.51	
2050	Great-West Lifetime 2050 Trust	-5.99	4.07	26.2	12.02	10.54	0.4
	Morningstar Lifetime Mod 2050 TR USD	-5.38	4.81	26.64	11.63	10.30	
	Benchmark +/-	-0.61	-0.74	-0.44	0.39	0.24	
2055	Great-West Lifetime 2055 Trust	-6.05	3.86	26.19	11.87	10.69	0.4
	Morningstar Lifetime Mod 2055 TR USD	-5.39	4.69	26.73	11.59	10.25	
	Benchmark +/-	-0.66	-0.83	-0.54	0.28	0.44	
2060	Great-West Lifetime 2060 Trust	-6.01					0.4
	Morningstar Lifetime Mod 2060 TR USD	-5.41	4.52	26.69	11.50	10.18	
	Benchmark +/-	-0.60					

\* Returns are annualized after 1 year

\*\* Great West Lifetime Trust Series replaced Great West Lifetime Trust Series II in June 2016. Return data prior to June 2016 reflects Great West Lifetime Trust Series II

\*\*\* Great West Lifetime Trust Series expense ratios were reduced to 0.40%-0.42% in Q1 2019

\*\*\*\* The following Lifetime Trusts were added in Q3 2019: 2020, 2030, 2040, 2050

\*\*\*\*\* The following Lifetime Trusts were added in Q2 2021: 2060

# Item 10 - Exhibit B

## County of Fresno 457 DC Plan

Historical Watch List

As of 03/31/2022

### Current Lineup Status

Asset Class		Current Status	Placed On Watch	Asset Class		Current Status	Placed On Watch
<b>US Large Cap</b>				<b>Fixed Income</b>			
02cff1	BlackRock Equity Index Fund M	Pass	-	04cff4	BlackRock US Debt Index Fund W	Pass	-
ASPYX	Alger Spectra Y	Recommended for Watch	2022 - Q1	MWTSX	Metropolitan West Total Return Bd Plan	Pass	-
CDDYX	Columbia Dividend Income Inst3	Watch	2021 - Q2	VTABX	Vanguard Total Intl Bd Idx Admiral	Pass	-
<b>US Mid Cap</b>				fressv Fresno County Stable Value			
03cff2	BlackRock Mid Capitalization Equity Index Fund M	Pass	-	<b>Target Date Funds</b>			
RPTIX	T. Rowe Price Mid-Cap Growth I	Pass	-	GRWL15	Great-West Lifetime 2015 Trust	Pass	-
<b>US Small Cap</b>				GRWL20	Great-West Lifetime 2020 Trust	Pass	-
03cff3	BlackRock Russell 2000 Index Fund M	Pass	-	GRWL25	Great-West Lifetime 2025 Trust	Pass	-
AOFYX	Alger Small Cap Focus Y	Recommended for Watch	2022 - Q1	GRWL30	Great-West Lifetime 2030 Trust	Pass	-
CRRYX	Columbia Small Cap Value II Inst3	Pass	-	GRWL35	Great-West Lifetime 2035 Trust	Pass	-
<b>Foreign</b>				GRWL40	Great-West Lifetime 2040 Trust	Pass	-
TROIX	T. Rowe Price Overseas Stock I	Pass	-	GRWL45	Great-West Lifetime 2045 Trust	Pass	-
VTMGX	Vanguard Developed Markets Index Admiral	Pass	-	GRWL50	Great-West Lifetime 2050 Trust	Pass	-
ODVIX	Invesco Developing Markets R6	Recommended for Watch	2022 - Q1	GRWL55	Great-West Lifetime 2055 Trust	Pass	-
<b>Specialty</b>				GRWL60	Great-West Lifetime 2060 Trust	Pass	-
FRIRX	Fidelity Advisor Real Estate Income I	Watch	2021 - Q4				
FUFRX	Franklin Utilities R6	Pass	-				

### Watch List History

		Status	Most Recent Time on Watch		Previous Time on Watch		Previous Time on Watch	
			Placed	Removed	Placed	Removed	Placed	Removed
ASPYX	Alger Spectra Y	In Plan	2022 - Q1	-				
AOFYX	Alger Small Cap Focus Y	In Plan	2022 - Q1	-				
FRIRX	Fidelity Advisor Real Estate Income I	In Plan	2022 - Q1	-				
ODVIX	Invesco Developing Markets R6	In Plan	2021 - Q4	-				
CDDYX	Columbia Dividend Income Inst3	In Plan	2021 - Q2	-	2013 - Q4	2014 - Q4		
FRESSV	County Of Fresno Stable Value Fund	In Plan	2017 - Q1	2018 - Q1				
GRWL15	Great-West Lifetime 2015 Trust	In Plan	2017 - Q1	2018 - Q1				
GRWL25	Great-West Lifetime 2025 Trust	In Plan	2017 - Q1	2018 - Q1				
GRWL35	Great-West Lifetime 2035 Trust	In Plan	2017 - Q1	2018 - Q1				
GRWL45	Great-West Lifetime 2045 Trust	In Plan	2017 - Q1	2018 - Q1				
GRWL55	Great-West Lifetime 2055 Trust	In Plan	2017 - Q1	2018 - Q1				
JDSNX	Janus Henderson Small Cap Value N	Removed	2021 - Q2	2022 - Q1				
NCLEX	Nicholas Limited Edition N	Removed	2021 - Q1	2022 - Q1	2016 - Q2	2017 - Q1	2013 - Q4	2015 - Q2
FBNRX	Templeton Global Bond R6	Removed	2019 - Q4	2020 - Q2	2016 - Q2	2017 - Q1		
HFCIX	Hennessy Focus Institutional	Removed	2018 - Q3	2019 - Q2				
SAMZX	Virtus Seix Total Return Bond R6	Removed	2018 - Q3	2019 - Q2	2013 - Q4	2015 - Q2		
SEGSX	Sentinel Government Securities A	Removed	2014 - Q2	2015 - Q2				
JMVCX	Perkins Mid Cap Value T	Removed	2013 - Q4	2015 - Q2	2012 - Q1	2012 - Q3		
MSIIX	MainStay International Equity I	Removed	2012 - Q4	2015 - Q2				
PAXIX	Pax Balanced Institutional	Removed	2012 - Q4	2013 - Q2				
GTAVX	Invesco Mid Cap Core Equity R5	Removed	2012 - Q1	2013 - Q2				

\* Watch List History displays all funds that have been on watch in the plan since 2012



Manager Search Research

---

**County of Fresno**

# Table of Contents

---

---

1-4 Alger Spectra Y (ASPXY)

---

5-7 Alger Small Cap Focus Y (AOFYX)

---

8-10 Invesco Developing Markets R6 (ODVIX)

---

# Alger Spectra Y (ASPYX)

## Investment Overview

Alger Spectra is an actively managed U.S. Large Cap Growth strategy, run by a highly experienced investment team. The strategy uses fundamental research, seeking companies that demonstrate promising growth potential. The fund can allocate up to 10% of the portfolio to short positions, operating with a benchmark agnostic mentality. As of 3/31/22, the strategy had 106 holdings, much more concentrated than its primary prospectus benchmark, the Russell 3000 Growth Index, which had 1,743 holdings.

## Performance

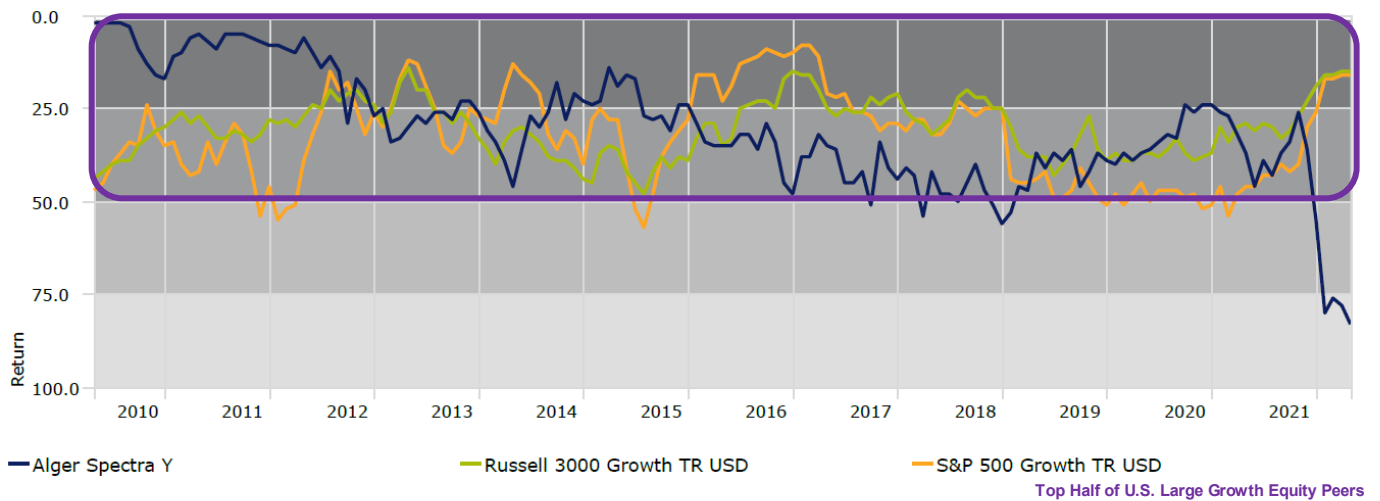
Alger Spectra fund has historically provided very strong returns. The chart below looks at the rolling three-year return ranking relative to U.S. Large Growth Peers, going back fifteen years. Peers with high rolling three-year returns will rank in the upper quartiles (1<sup>st</sup> to 25<sup>th</sup>, 26<sup>th</sup> to median). Alger Spectra has consistently performed well relative to peers, with the exception of dropping into the bottom half of peers within the last year. The chart also shows the returns of the Russell 3000 Growth Index and the S&P 500 Growth Index, another comparable U.S. Large Cap Growth benchmark. Historically, both indices have ranked well relative to the peer group, illustrating that the majority of the universe of Alger Spectra’s peers has struggled when compared to these benchmarks. This is specifically true in 2022, with both indices ranking in the top quartile, outperforming Alger Spectra alongside majority of the U.S. Large Cap Growth universe.

### Rolling Return (Descending Rank)

Time Period: 5/1/2007 to 4/30/2022

Peer Group (5-95%): Funds - U.S. - Large Growth    Rolling Window: 3 Years 1 Month shift    Calculation Benchmark: S&P 500 Growth TR USD

■ 1st to 25th Percentile    ■ 26th to Median    ■ 51st to 75th Percentile    ■ 76th to 100th Percentile

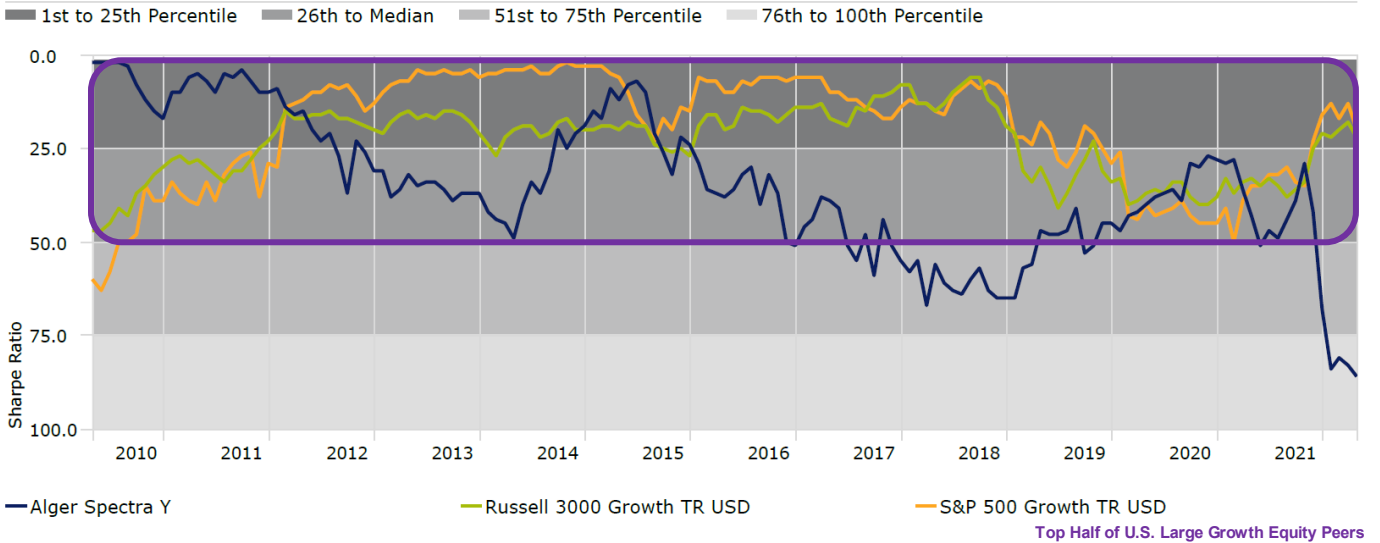


The chart below looks at rolling three-year Sharpe Ratios, which illustrate risk-adjusted returns. Historically, the risk-adjusted returns for Alger Spectra have ranked the strategy in the first or second quartiles relative to U.S. Large Growth peers. Alger Spectra’s risk-adjusted return ranking has dropped below median twice in the last fifteen years, from 2017-2019 and again in 2021. During each of these time periods, the U.S. markets were experiencing high volatility from either the trade war with China or the COVID pandemic, respectively. Historically for both of the benchmarks illustrated, the rolling three-year Sharpe Ratios have ranked near the top quartile relative to peers, often outranking Alger Spectra.

**Rolling Sharpe Ratio (Descending Rank)**

Time Period: 5/1/2007 to 4/30/2022

Peer Group (5-95%): Funds - U.S. - Large Growth Rolling Window: 3 Years 1 Month shift Calculation Benchmark: S&P 500 Growth TR USD

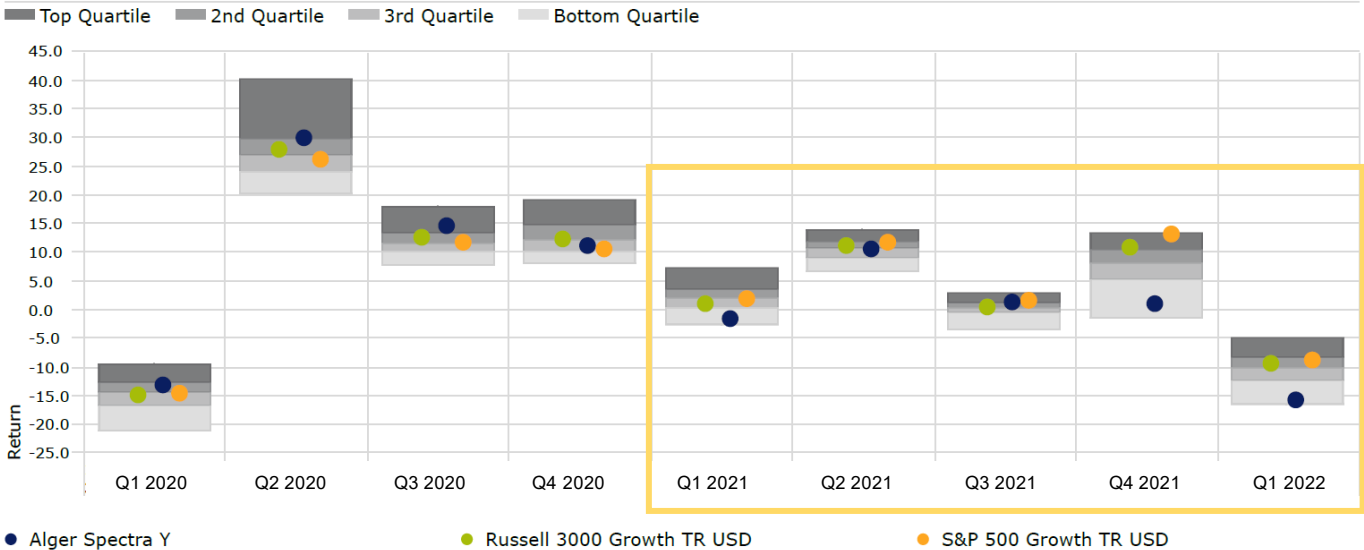


The Alger Spectra fund has experienced headwinds in 2021 after a historically strong run and particularly impressive year in 2020, when the fund returned 43.58% for the year, outperforming the benchmark (38.26%) and Large Cap Growth peers (average return of 35.86%). For the year 2021, Alger Spectra returned 11.74%, underperforming the index return of 25.85%, largely due to the strategy’s aggressive growth profile incurring more volatility. For the YTD 2022 period, the fund has also struggled, returning -15.63% versus -9.25% for Russell 3000 Growth index. For the one-year trailing ending 3/31/22, underperformance was primarily driven by stock selection, specifically within information technology, the portfolio’s largest sector overweight. Last quarter, Alger Spectra was negatively impacted by the performance of the portfolio’s two largest overweight allocations, both of which are information technology companies. Shopify, Inc., the fund’s largest active holding (+3.22% relative to the index as of 1/31/22), experienced a drastic share price decline when the firm’s earnings were released. Advanced Micro Devices, Inc., Alger Spectra’s second largest active holding (+2.77%), performed poorly this quarter with rising concerns of a cyclical slowdown related to high inflation.

The chart below shows quarterly returns relative to U.S. Large Cap Growth peers since the beginning of 2020. Previously mentioned, performance for Alger Spectra ranked in the top quartile for the year 2020. From 2021 to present, boxed in yellow in the chart below, Alger Spectra has underperformed the index. On a quarterly basis since Q2 2021, both indices have ranked in the first and/or second quartiles relative to peers. This helps illustrate that majority of U.S. Large Cap Growth peers, alongside Alger Spectra, have struggled during this time period to outperform the category benchmarks.

**Performance Relative to Peer Group**

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

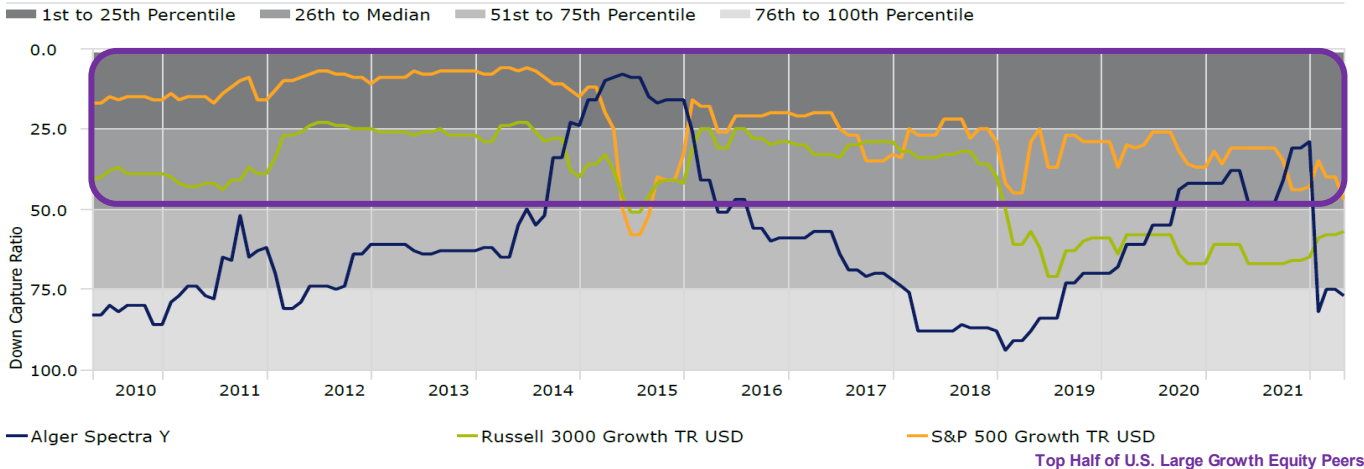


The chart below looks at the rolling three-year Downside Capture, going back fifteen years. Downside Capture represents a manager’s ability to protect returns in bear markets by outperforming the index when it is falling. The Downside Capture of both indices ranks well relative to peers, illustrating that U.S. Large Growth peers struggle to outperform these benchmarks during bear markets. The historical Downside Capture for Alger Spectra has ranked below median relative to peers.

**Rolling Down Capture (Ascending Rank)**

Time Period: 5/1/2007 to 4/30/2022

Peer Group (5-95%): Funds - U.S. - Large Growth Rolling Window: 3 Years 1 Month shift Calculation Benchmark: S&P 500 Growth TR USD



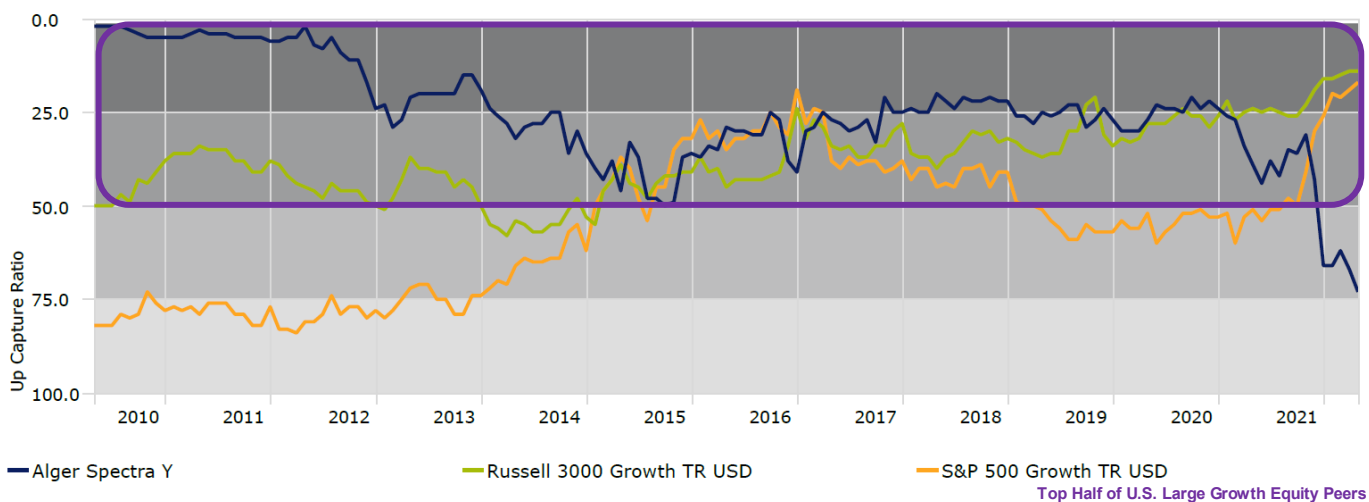
Opposite to Downside Capture, Up Capture represents a manager’s ability to outperform in bull markets. The chart below looks at the rolling three-year Up Capture, going back fifteen years. Historically, Alger Spectra has had a strong Up Capture, consistently outperforming the index in bull markets. While Alger Spectra has historically struggled to protect returns in down markets, the strategy has proven to capture returns on the upside when the market is performing well.

**Rolling Up Capture (Descending Rank)**

Time Period: 5/1/2007 to 4/30/2022

Peer Group (5-95%): Funds - U.S. - Large Growth Rolling Window: 3 Years 1 Month shift Calculation Benchmark: S&amp;P 500 Growth TR USD

1st to 25th Percentile	26th to Median	51st to 75th Percentile	76th to 100th Percentile
------------------------	----------------	-------------------------	--------------------------

**Price**

The prospectus net expense ratio for Alger Spectra Y (ASPYX) is 1.09%. The average prospectus net expense ratio of active U.S. Large Cap Growth equity mutual funds is 1.03%. The fee charged by Alger Spectra is slightly above average. The higher fee charged for Alger Spectra can be attributable to the strategy's shorting technique, allocating up to 10% of the portfolio to short positions. Shorting has provided value historically for the strategy and was a contributor to performance in Q1 2022, despite overall underperformance of the fund.

**Recommendation**

The Alger Spectra fund scores a 2 under our scoring methodology due to its underperformance over the short term. Alger Spectra has a historically strong track record relative to the broader U.S. Large Growth peer group. The strategy is run by highly experienced portfolio managers, backed by a well-resourced analyst team. The team handled the high volatility very well in 2020, outperforming the benchmark and ranking in the 21<sup>st</sup> percentile relative to peers. Despite the strong performance in 2020, the fund has historically had difficulty navigating bear markets. Alger Spectra has struggled in 2021 and YTD 2022, primarily driven by markedly poor performance in a handful of specific stock picks in information technology. **While recognizing the recent performance drag from a handful of portfolio positions during a highly volatile time in the markets, the Alger Spectra investment process has proven to be consistently strong and thus NWCM remains confident in the strategy.**

**Disclosures**

Data sourced from the investment manager and Morningstar Direct.

While the material contained herein is believed to be reasonable, no guarantee can be provided to its accuracy or completeness. The data, methodologies, and conclusions presented in this document may change over time without notice. There can be no assurance that the investments and/or asset classes referred to in this document will perform in a manner consistent with their historical performance and/or any forward-looking assumptions or opinions stated verbally or in this document. Any investment and/or asset allocation, no matter how conservative, can lose money. Historical performance results do not reflect the deduction of transaction fees, and/or custodial charges, which would serve to decrease historical performance results. Information contained herein has been obtained from a range of third-party sources. While the information is believed to be reliable, NWCM has not sought to verify it independently. As such, NWCM makes no representations or warranties as to the accuracy of the information presented and takes no responsibility or liability (including for indirect, consequential or incidental damages), for any error, omission or inaccuracy in the data supplied by any third party.

# Alger Small Cap Focus Y (AOFYX)

## Investment Overview

Alger Small Cap Focus is an actively managed U.S. Small Cap Growth strategy. The high conviction portfolio holds around 50 names with low portfolio turnover. Alger Small Cap Focus has been led by portfolio manager Amy Zhang since she joined the firm in 2015. Considering the strategy’s turnover in management, it’s important to measure Alger Small Cap Focus by the timeline of Amy’s management, 2015 to present. Zhang is a seasoned investor, gaining the majority of her portfolio management experience co-managing at Brown Capital Management for thirteen years. Her investment process is unique, identifying small companies by operating revenue rather than market capitalization.

## Performance

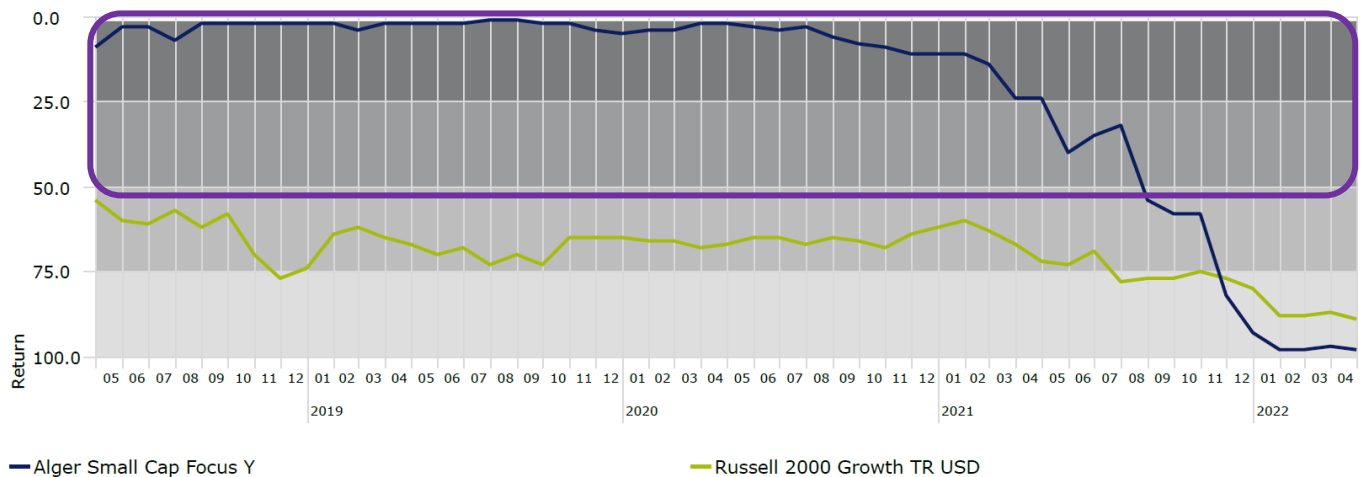
Alger Small Cap Focus fund has historically provided very strong returns under Zhang’s management. The chart below looks at the rolling three-year return ranking relative U.S. Small Growth Peers, going back to early 2015. Peers with high rolling three-year returns will rank in the upper quartiles (1<sup>st</sup> to 25<sup>th</sup>, 26<sup>th</sup> to median). Alger Small Cap Focus has consistently performed well relative to peers, except for the last year. The chart also shows the returns of the Russell 2000 Growth Index, the primary benchmark for Alger Small Cap Focus. Historically, the strategy has consistently outperformed the index.

### Rolling Return (Descending Rank)

Time Period: 5/1/2015 to 4/30/2022

Peer Group (5-95%): Funds - U.S. - Small Growth    Rolling Window: 3 Years 1 Month shift    Calculation Benchmark: Russell 2000 Growth TR USD

■ 1st to 25th Percentile    ■ 26th to Median    ■ 51st to 75th Percentile    ■ 76th to 100th Percentile



Top Half of U.S. Small Growth Equity Peers

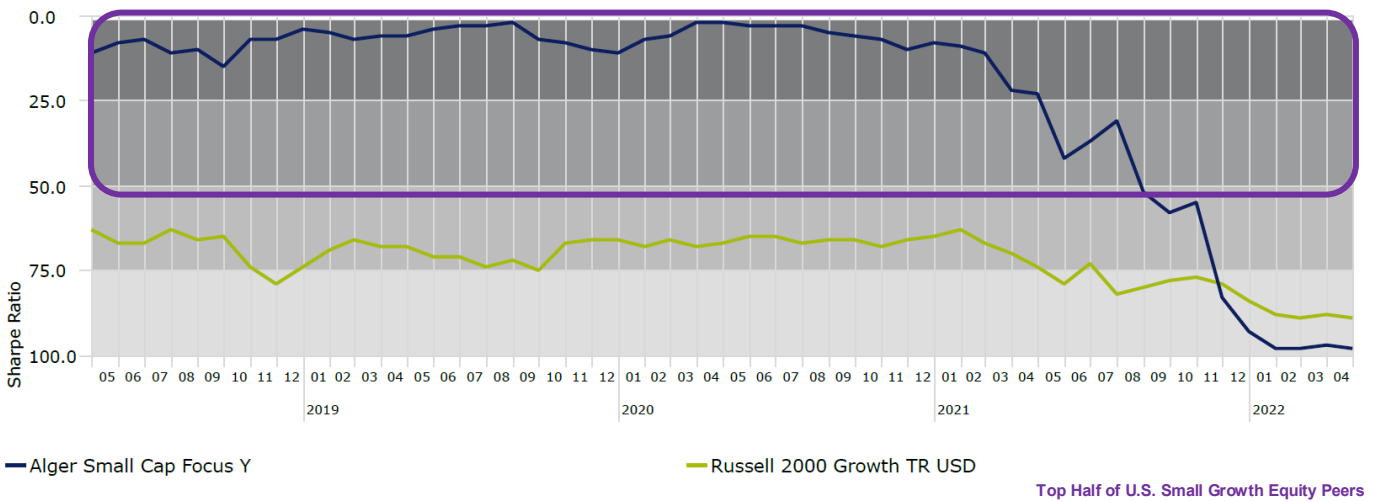
The chart below looks at the monthly rolling three-year Sharpe Ratio, illustrating risk-adjusted returns. Since 2015, the risk-adjusted returns for Alger Small Cap Focus have ranked the strategy in the first and second quartiles relative to U.S. Small Growth peers. The risk-adjusted return ranking for Alger Small Cap Focus under Zhang’s management has yet to drop below median, except for in the last year. Historically, the rolling three-year Sharpe Ratio for Alger Small Cap Focus has also significantly outperformed the index, illustrating a track record profile with strong returns given the risk taken.

**Rolling Sharpe Ratio (Descending Rank)**

Time Period: 5/1/2015 to 4/30/2022

Peer Group (5-95%): Funds - U.S. - Small Growth Rolling Window: 3 Years 1 Month shift Calculation Benchmark: Russell 2000 Growth TR USD

■ 1st to 25th Percentile ■ 26th to Median ■ 51st to 75th Percentile ■ 76th to 100th Percentile



Top Half of U.S. Small Growth Equity Peers

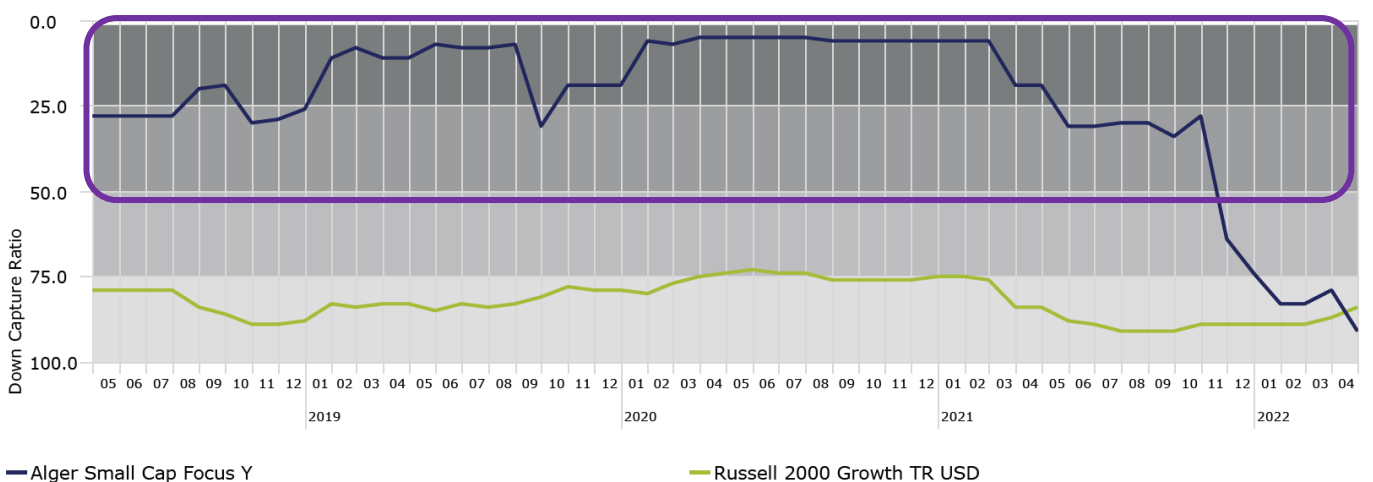
Alger Small Cap Focus was well-positioned for the COVID 2020 pandemic. During 2020, the fund returned 53.18%, dramatically outperforming the benchmark (34.63%) and Small Cap Growth peers (average return of 38.62%). The strategy experienced headwinds in 2021, returning -14.27% for the year and significantly underperforming the index and peers who returned 2.83% and 11.89%, respectively. Some of what helped the fund in 2020 hurt performance the following year. Healthcare stock Quidel, a top performer in 2020, sold off as vaccination rates rose. Another 2020 top performer, Everbridge, dropped significantly in December 2021 as the CEO abruptly resigned. Additionally, the fund has struggled in 2022, experiencing rising interest rate headwinds which negatively impacted the high-growth companies favored by Zhang. Natera, Inc., CryoPort, Inc., and Smartsheet, Inc., were the top detractors from performance during the first quarter of 2022. Zhang retains high confidence in all three firms.

**Rolling Down Capture (Ascending Rank)**

Time Period: 5/1/2015 to 4/30/2022

Peer Group (5-95%): Funds - U.S. - Small Growth Rolling Window: 3 Years 1 Month shift Calculation Benchmark: Russell 2000 Growth TR USD

■ 1st to 25th Percentile ■ 26th to Median ■ 51st to 75th Percentile ■ 76th to 100th Percentile



Top Half of U.S. Large Growth Equity Peers

Source: Morningstar Direct

The chart above looks at rolling three-year Downside Capture ratios, going back to 2015. Downside Capture represents a manager’s ability to protect returns in bear markets by outperforming the index when it is falling. Alger Small Cap Focus has had a strong Downside Capture ratio under Zhang’s management, ranking in the top half of peers, illustrating that the fund typically outperforms the index in bear markets.



## Recommendation

Alger Small Cap Focus has proven to be an outperformer under Zhang's management since 2015. The strategy has historically navigated down markets very well, though it has struggled over the last year amid rising interest rates and a highly volatile market. **While recognizing the recent underperformance, Zhang's management of the Alger Small Cap Focus fund has proven to be strong historically and thus NWCM remains confident in the strategy.**

## Disclosures

Data sourced from the investment manager and Morningstar Direct.

While the material contained herein is believed to be reasonable, no guarantee can be provided to its accuracy or completeness. The data, methodologies, and conclusions presented in this document may change over time without notice. There can be no assurance that the investments and/or asset classes referred to in this document will perform in a manner consistent with their historical performance and/or any forward-looking assumptions or opinions stated verbally or in this document. Any investment and/or asset allocation, no matter how conservative, can lose money. Historical performance results do not reflect the deduction of transaction fees, and/or custodial charges, which would serve to decrease historical performance results. Information contained herein has been obtained from a range of third-party sources. While the information is believed to be reliable, NWCM has not sought to verify it independently. As such, NWCM makes no representations or warranties as to the accuracy of the information presented and takes no responsibility or liability (including for indirect, consequential or incidental damages), for any error, omission or inaccuracy in the data supplied by any third party.

# Invesco Developing Markets R6 (ODVIX)

## Investment Overview

Invesco Developing Markets fund seeks capital appreciation, using a moderate growth approach when looking for emerging markets equity stocks. Portfolio manager Justin Leverenz has led the strategy since 2007, supported by an analyst team. The bottom-up investment process leads to a portfolio of stocks with moderate turnover that is benchmarked against the MSCI Emerging Markets Index.

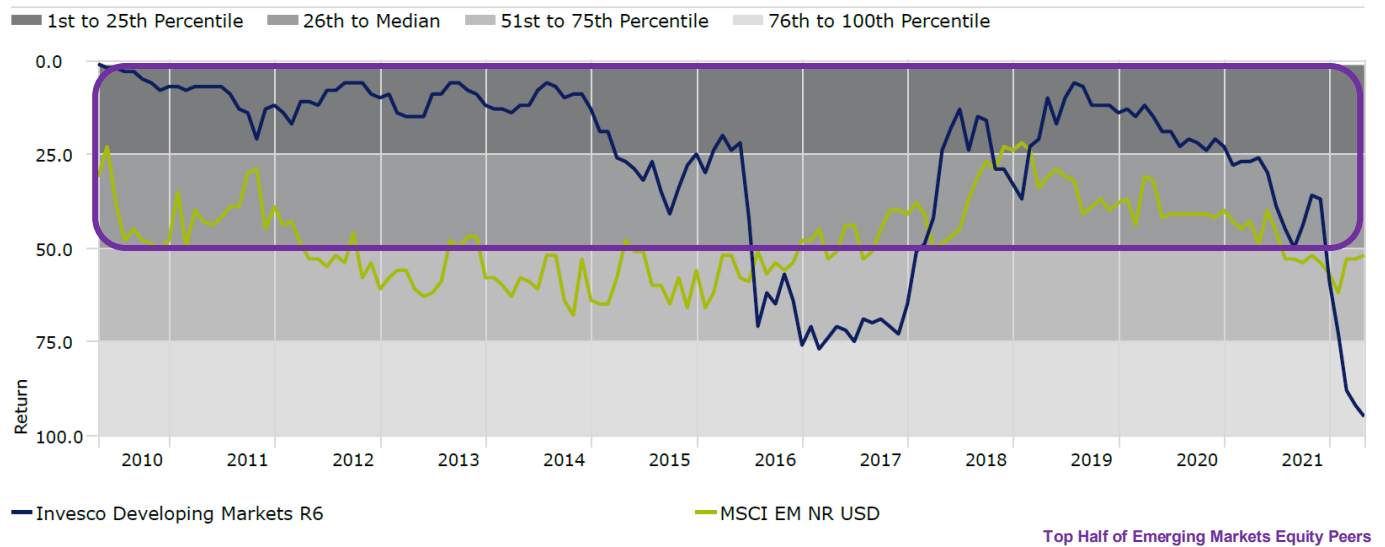
## Performance

Invesco Developing Markets has historically provided competitive returns. The chart below looks at the monthly rolling three-year return ranking relative to Emerging Markets Equity peers, going back fifteen years. Peers with high rolling three-year returns will rank in the upper quartiles (1<sup>st</sup> to 25<sup>th</sup>, 26<sup>th</sup> to median). Three-year rolling returns for Invesco Developing Markets have consistently ranked the fund in the top quartile, outperforming the index, with the exception of 2016-2017 and 2021-present.

### Rolling Return (Descending Rank)

Time Period: 5/1/2007 to 4/30/2022

Peer Group (5-95%): Funds - U.S. - Diversified Emerging Mkts Rolling Window: 3 Years 1 Month shift Calculation Benchmark: MSCI EM NR USD



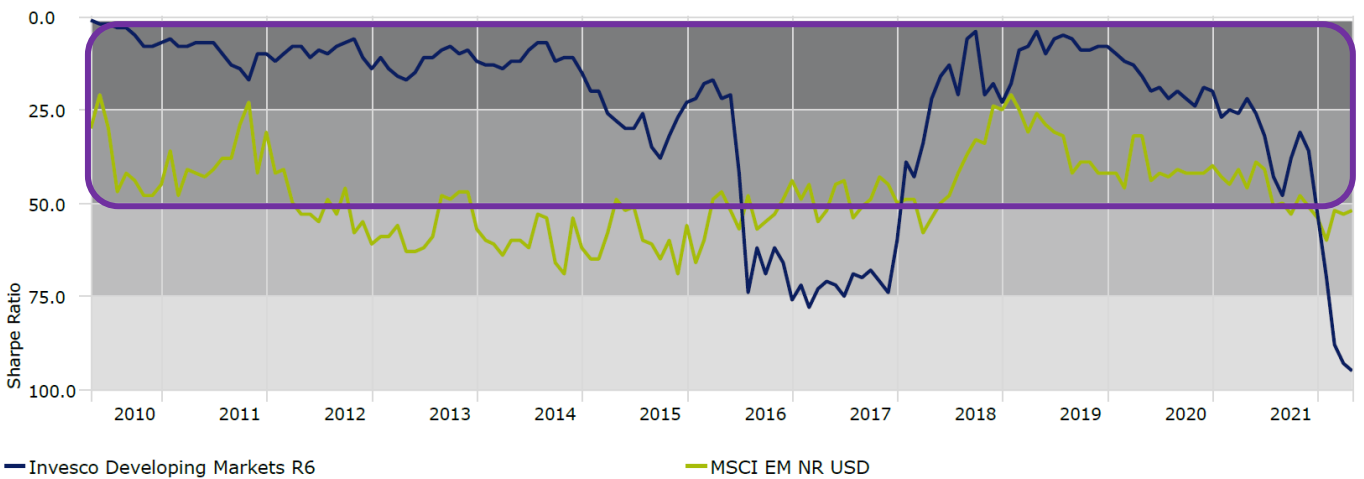
The chart below looks at the monthly rolling three-year Sharpe Ratio, illustrating risk-adjusted returns. Historically, the risk-adjusted returns for Invesco Developing Markets have ranked the strategy in the first quartile relative to Emerging Markets Equity peers, again with the exception of 2016-2017 and 2021-present. Over the last year ending 3/31/22, Invesco Developing Markets has underperformed the MSCI Emerging Markets Index, returning -22.36% relative to -11.37% for the index. Much of this underperformance occurred during Q1 2022, when the strategy returned -15.68% relative to -6.97% for the index. A significant detractor from 2022 performance was the fund's stock selection and overweight allocation to Russia. The stock price for Novatek PJSC, based in Russia and held in the fund for nearly 15 years, was devastated alongside Russian equities due to global sanctions imposed on the country following the invasion of Ukraine. Due to ongoing Moscow exchange market closure, Invesco is employing fair value pricing for Russian securities. As of March 2, 2022, Invesco Developing Markets priced Russian securities to zero, reflecting zero exposure to Russia within the portfolio.

**Rolling Sharpe Ratio (Descending Rank)**

Time Period: 5/1/2007 to 4/30/2022

Peer Group (5-95%): Funds - U.S. - Diversified Emerging Mkts Rolling Window: 3 Years 1 Month shift Calculation Benchmark: MSCI EM NR USD

1st to 25th Percentile 26th to Median 51st to 75th Percentile 76th to 100th Percentile



Top Half of Emerging Markets Equity Peers

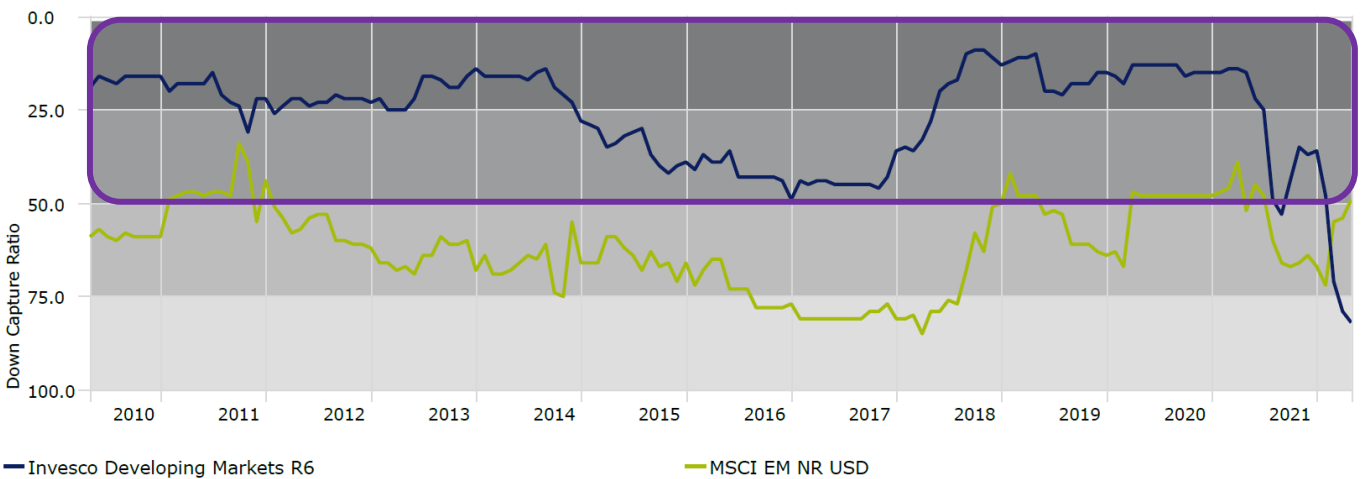
The chart below looks at the monthly rolling three-year Downside Capture ratio, going back fifteen years. Downside Capture represents a manager’s ability to protect returns in bear markets by outperforming the index when it’s falling. The three-year rolling Downside Capture of Invesco Developing Markets has previously ranked well among peers, illustrating that the fund typically performs well during bear markets.

**Rolling Down Capture (Ascending Rank)**

Time Period: 5/1/2007 to 4/30/2022

Peer Group (5-95%): Funds - U.S. - Diversified Emerging Mkts Rolling Window: 3 Years 1 Month shift Calculation Benchmark: MSCI EM NR USD

1st to 25th Percentile 26th to Median 51st to 75th Percentile 76th to 100th Percentile



Top Half of Emerging Markets Equity Peers

**Recommendation**

Under our scoring methodology, the Invesco Developing Markets fund score fell to a 4 due to performance and was placed on Watch. Invesco Developing Markets has proven to provide strong outperformance over time, consistently navigating down markets well. The recent drag on performance can largely be attributed to the fund’s overallocation to Russian equities, which dropped drastically with Russia’s invasion of Ukraine. **NWCM recognizes Invesco Developing Markets recent underperformance, though remains confident in Leverenz’s investment process and strong track record.**

## Disclosures

Data sourced from the investment manager and Morningstar Direct. While the material contained herein is believed to be reasonable, no guarantee can be provided to its accuracy or completeness. The data, methodologies, and conclusions presented in this document may change over time without notice. There can be no assurance that the investments and/or asset classes referred to in this document will perform in a manner consistent with their historical performance and/or any forward-looking assumptions or opinions stated verbally or in this document. Any investment and/or asset allocation, no matter how conservative, can lose money. Historical performance results do not reflect the deduction of transaction fees, and/or custodial charges, which would serve to decrease historical performance results. Information contained herein has been obtained from a range of third-party sources. While the information is believed to be reliable, NWCM has not sought to verify it independently. As such, NWCM makes no representations or warranties as to the accuracy of the information presented and takes no responsibility or liability (including for indirect, consequential or incidental damages), for any error, omission or inaccuracy in the data supplied by any third party.