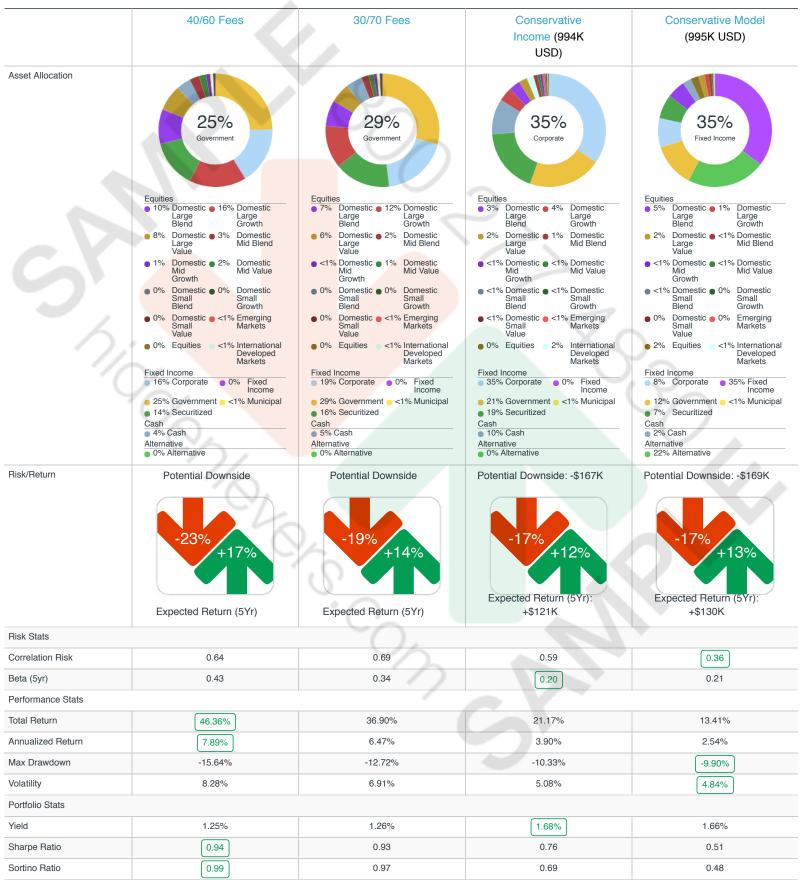


Risk Profile Comparison

Timeframe: September 20, 2016 to September 20, 2021

Risk Measures





Expenses				
Expense Ratio	0.05%	0.05%	0.35%	0.18%
AUM Fee	1.00%	1.00%	1.00%	1.00%



Stress Test Risk				
Debt Cliff	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
US Default	-44.7%	-43.9%	-37.6%	-29.5%
SS/Medicare Insolvent	-15.0%	-11.2%	-10.3%	-11.0%
Municipal Bond Crisis	-10.7%	-10.4%	-8.7%	-6.7%
Social Security Cut 25%	-7.7%	-5.8%	-4.7%	-5.3%
SS/Medicare Stay Solvent	3.3%	1.1%	1.1%	2.4%
Past Crashes	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Financial Crisis - Max Drawdown	-24.7%	-19.3%	-18.3%	-19.3%
Financial Crisis 9/1/08 - 3/9/09	-21.5%	-17.0%	-15.4%	-16.2%
March 2020 COVID19 Crash	-14.3%	-11.3%	-11.5%	-11.1%
October 1987 Market Crash	-12.1%	-10.6%	-10.3%	-9.0%
2000 Nasdaq Cut in Half	-10.2%	-7.9%	-7.3%	-7.8%
1990 US Recession	-5.8%	-3.6%	-3.7%	-5.1%
1998 Russia + LTCM Crisis	-5.7%	-4.1%	-4.2%	-4.4%
2011 US Credit Downgraded	-5.6%	-3.9%	-4.0%	-4.4%
COVID Market Recovery	28.7%	23.5%	17.6%	19.3%
Fed Stress Test	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
2021 Alternative Severe	-23.1%	-19.1%	-16.8%	-17.0%
2021 Severely Adverse	-22.6%	-18.4%	-16.3%	-16.7%
2021 Baseline	0.3%	0.3%	0.8%	0.7%
S D-AL-G-AL-	40/00 5	00.00	0	One of the Market
Past Inflation	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Stagflation	-21.5%	-21.9%	-18.1%	-13.2%
Commodity Price Surge - 2008	-10.0%	-8.4%	-7.7%	-7.7%
Iranian Revolution - 1979	-9.6%	-10.7%	-8.6%	-6.5%
Volcker's War on Inflation - 80s	24.8%	20.7%	15.7%	16.3%
SP Valuation	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
17 CAPE - Long Term Average	-21.1%	-16.2%	-15.2%	-15.7%
	-18.9%	-15.0%	-13.3%	-13.8%
21 CAPE - Pandemic Lows	10.070			
21 CAPE - Pandemic Lows 35 CAPE - Steady	-2.3%	-1.9%	-1.2%	-1.3%



Boomers Retire	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Mass Equity Sales	-19.6%	-16.0%	-11.8%	-12.4%
Gradually Sell Stock	-6.1%	-5.5%	-2.1%	-2.0%
Millennials Fill Gap	1.3%	1.3%	3.9%	3.3%
Future of Energy	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Life From Home	-17.8%	-14.3%	-12.7%	-13.1%
Gas > Electric	0.1%	-0.3%	0.3%	0.5%
EV Sales Accelerate	4.0%	3.0%	2.7%	3.1%
EM Hangover	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Crippled by US Rate Hikes	-17.0%	-16.2%	-13.5%	-11.3%
Currency Outflows	-1.3%	-3.2%	-2.3%	-0.8%
Fed Pauses Hikes	1.7%	1.1%	1.3%	1.6%
Fed Taper	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Economy Runs Too Hot	-15.8%	-14.2%	-12.1%	-10.9%
2018 Hawkish Powell Fed	-12.7%	-11.8%	-10.1%	-8.8%
Transitory Inflation	-2.4%	-2.2%	-1.3%	-1.2%
Earnings Growth Unharmed	5.1%	4.1%	3.5%	3.7%
US Reflation	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Runaway Inflation	-15.1%	-15.0%	-12.3%	-9.4%
Japan-style Deflation	-12.9%	-10.1%	-8.7%	-9.3%
USD Rebounds, CPI Does Not	-1.1%	-0.8%	-0.1%	-0.3%
Goldilocks Inflation	0.3%	0.3%	0.8%	0.7%
Yield Shock	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Fed Loses Control	-15.0%	-14.8%	-12.2%	-9.6%
1994 Bond Crash	-11.5%	-13.1%	-10.3%	-7.9%
Bond Market Self Soothes	0.6%	0.5%	1.0%	0.9%
Fed Twists Rates	0.7%	0.5%	1.0%	1.0%
US Housing	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Yield Shock	-14.9%	-14.7%	-11.8%	-9.3%
Lack of Inventory	0.3%	0.3%	0.8%	0.7%
Hot Housing Market	0.5%	0.4%	0.9%	0.8%
Immigration	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Immigration Shutdown	-11.7%	-9.3%	-8.1%	-8.5%
Gridlock	1.2%	0.6%	0.9%	1.2%



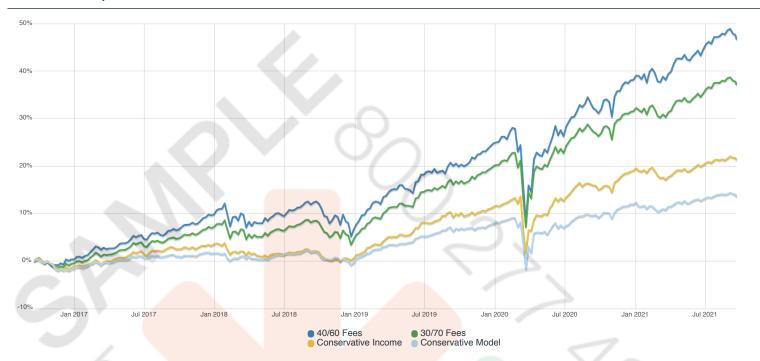
Vaccine Rebound	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
In-Person Economy Dies	-10.4%	-9.0%	-7.4%	-7.0%
Covid Fears Linger	-3.0%	-2.5%	-2.3%	-2.2%
Back to Work	1.4%	1.2%	1.5%	1.4%
Trade War	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Repeat 1930s Mistakes	-10.3%	-5.9%	-5.9%	-9.0%
China Recession	-10.0%	-8.3%	-7.0%	-7.1%
China + EM Rebound	0.3%	0.3%	0.8%	0.7%
Low Rates Ease US Pain	0.3%	0.3%	0.8%	0.7%
China Reckoning	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
New Cold War	-9.9%	-7.8%	-6.7%	-7.1%
Debt Bubble Pops	-9.8%	-3.9%	-5.4%	-8.9%
Regulatory Assault	-1.1%	-0.8%	-0.2%	-0.4%
US Bluechip Inflows	3.8%	3.1%	2.9%	3.0%
NASDAQ Moonshots	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
SPACs Go Splat	-9.8%	-8.5%	-7.0%	-6.8%
Historical: 2000 Tech Crash	-8.5%	-6.5%	-6.2%	-6.5%
Mega-Cap Rebound	0.6%	0.6%	1.0%	0.9%
Rates Ease	1.6%	1.4%	1.7%	1.5%
Post-Election	-//-			
Chaos	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Exposed Sectors Default	-9.7%	-7.7%	-7.0%	-7.2%
Bush/Gore 2000	-4.9%	-3.8%	-3.6%	-3.7%
Toxic Politics	-4.6%	-3.7%	-3.3%	-3.3%
Government Inaction	-0.6%	-0.4%	-0.2%	-0.3%
Bipartisan Stimulus	0.1%	0.1%	0.2%	0.2%
End of Retail	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Prolonged Unemployment	-8.7%	-7.0%	-5.7%	-6.1%
Legacy Retailers Die	-0.8%	-1.2%	-0.2%	0.1%
In-Store Sales Rebound	2.1%	0.6%	1.1%	1.9%
Baseline	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
SP 500 Down 20%	-8.1%	-6.1%	[-5.1%]	-5.6%
Treasury rates up 200bp	-4.8%	-6.6%	-4.7%	[-3.3%]
SP 500 Down 10%	-4.0%	-3.1%	[-2.3%]	-2.5%
_			0.70/	(2.22)
Treasury rates up 100bp	-3.4%	-4.1%	-2.7%	(-2.0%)



SP 500 Up 20%	7.5%	5.5%	4.5%	5.3%
US Coastal Exodus	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
High Taxes + Climate Disasters	-7.8%	-5.6%	-4.9%	-5.8%
High Tax States Correct	-1.5%	-1.0%	-0.4%	-0.7%
Foreign Money Steps In	0.3%	0.3%	0.8%	0.7%
Jobs Recovery	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Wage Inflation Hits Earnings	-6.2%	-5.0%	-4.1%	-4.1%
Benefits Cliff	-0.7%	-0.4%	0.1%	-0.0%
Productivity Boom	7.4%	5.8%	4.8%	5.5%
Global Conflicts	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Iran Conflict	-5.7%	-4.2%	-3.6%	-4.0%
Conflict In Korea	-3.9%	-2.5%	-2.6%	-3.3%
Historical: 9/11/2001	-3.6%	-2.8%	-2.7%	-3.0%
Terror Attack in US	-3.5%	-2.6%	-2.5%	-2.8%
US in Syria	-2.6%	-1.7%	-1.6%	-1.9%
Europe Falls Behind	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Demographic Decline	-4.9%	-3.5%	-2.6%	-3.3%
EU Closes Gap	0.3%	0.3%	0.8%	0.7%
Divergence Continues	3.7%	3.4%	2.8%	2.4%
2012 Greek Default	4.0%	4.9%	3.8%	2.8%
Cryptomania	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Govt Ends Party	-4.5%	-3.5%	-2.9%	-3.1%
Steals Nasdaq Thunder	-2.8%	-2.4%	-1.6%	-1.5%
Institutional Adoption	2.2%	1.7%	1.9%	1.9%
Climate Disasters	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Coastal RE Impacted	-4.4%	-3.5%	-2.7%	-2.8%
Costs Outweigh GDP Gains	-0.7%	-0.4%	0.2%	-0.0%
Insurance + Infrastructure	0.3%	0.3%	0.8%	0.7%
Oil Prices	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
Negative Oil Prices	-3.7%	-2.9%	-3.2%	-2.9%
No Truce + No Demand	-2.7%	-1.5%	-1.8%	-2.2%
Price War	-0.9%	-0.8%	-1.3%	-1.1%
Saudi - Russia Truce			0.0%	0.0%



Performance History





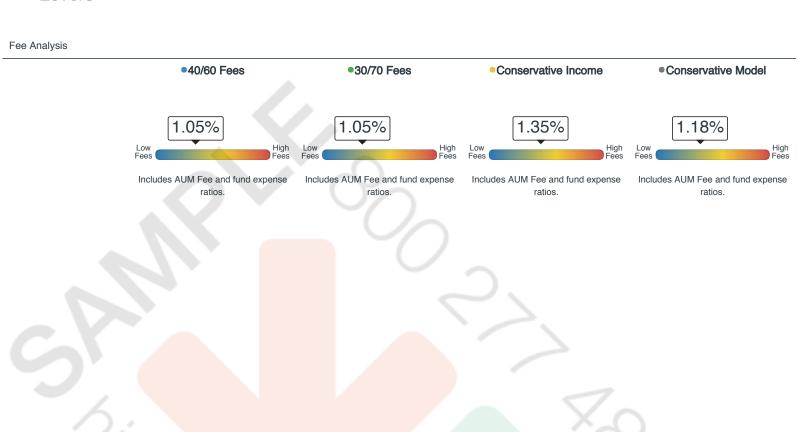
Equity Style Analys	is			
	•40/60 Fees	•30/70 Fees	Conservative Income	Conservative Model
	Value Blend Growth	Value Blend Growth	Value Blend Growth	Value Blend Growth
	Large 19 25 41	Large 19 25 41	Large 19 25 29	Large 18 54 12
	Mid 5 7 3	Mid 5 7 3	Mid 6 8 5	Mid 5 9 1
	Small 0 0 0	Small 0 0 0	Small 3 4 2	Small 0 1 0
Fixed Income Analy	ysis			
	●40/60 Fees	•30/70 Fees	Conservative Income	Conservative Model
	Short Mid Long	Short Mid Long	Short Mid Long	Short Mid Long
	Maturity 18 37 45	Maturity 18 37 45	Maturity 14 44 42	Maturity 64 16 20
	Muni Corp Govt	Muni Corp Govt	Muni Corp Govt	Muni Corp Govt
	Issuer 1 27 41	Issuer 1 27 41	Issuer 0 42 25	lssuer 0 12 18
),•			



Equity Sector Analysis

	•40/60 Fees	•30/70 Fees	Conservative Income	Conservative Model
	11.91% 6.25% Discretionary Staples	11.91% 6.25% Discretionary Staples	11.78% 5.98% Discretionary Staples	10.47% 15.32% Discretionary Staples
	2.5% 13.82% Energy Financials	2.5% 13.82% Energy Financials	3.07% 15.33% Energy Financials	0% 17.18% Energy Financials
	13.51% 8.35% Healthcare Industrials	13.51% 8.35% Healthcare Industrials	12.9% 9.77% Healthcare Industrials	15.52% 17.23% Healthcare Industrials
SY	2.14% 2.63% Materials Real Estate	2.14% 2.63% Materials Real Estate	3.24% 3.57% Materials Real Estate	3.67% 0% Materials Real Estate
1/2	25.01% 2.46% Technology Utilities	25.01% 2.46% Technology Utilities	22.21% 2.35% Technology Utilities	14.93% 2.81% Technology Utilities
	11.41% Communications	11.41% Communications	9.79% Communications	2.86% Communications
Equity Geographic Analysis				
Region	40/60 Fees	30/70 Fees	Conservative Income	Conservative Model
North America	98.96% 98.96%		85.16%	99.02%
Latin America	0.00%	0.00%	0.37%	0.00%
Europe	0.84%	0.84%	7.13%	0.98%
Asia Pacific	0.20%	0.20%	6.93%	0.00%
Middle East + Africa	0.00%	0.00%	0.42%	0.00%







Compare Positions

Name / Industry	40/60 Fees	30/70 Fees		Conservative Income	Conservative Model
SPY - SPDR SP 500 ETF Trust Fund - US Index	40.00%	30.00% (-10.00%)	•		
AGG - iShares Core U.S. Aggregate Bond ETF Fund - Intermediate-Term Bond	60.00%	70.00% (+10.00%)	•		30.13% (-29.87%) 299,923 USD (NaN)
BFMCX BlackRock Core Bond Portfolio Institutional Shares Fund - Intermediate-Term Bond				20.09% 199,800 USD	
VANGUARD2 VANGUARD2 Proxied by iShares Core U.S. Aggregate Bond ETF				20.11% 200,000	
DPFFX Delaware Diversified Income Fund Institutional Class Fund - Intermediate-Term Bond			7	20.07% 199,571 USD	
FX:USD US Dollar Cash Currencies				5.03% 50,000 USD	
WBII WBI BullBear Global Income ETF Fund - World Allocation				15.00% 149,103 USD	
VTI Vanguard Total Stock Market Index Fund ETF Shares Fund - Large Blend				9.79% 97,382 USD	
VRIVX Vanguard Institutional Target Retirement 2025 Fund Institutional Shares Fund - Target Date				9.91% 98,495 USD	50.
BIL SPDR Bloomberg Barclays 1-3 Month T-Bill ETF Fund - Short Government	7/6.				35.16% 350,000 USD
PFF iShares Preferred and Income Securities ETF Fund - Preferred Securities	97				24.95% 248,349 USD
VIG Vanguard Dividend Appreciation Index Fund ETF Shares Fund - Large Blend		30			9,76% 97,147 USD



Investment Policy Statement Prepared for Jane Beneficiary



Investment Policy Statement

Introduction

This Investment Policy Statement (IPS) will establish investment management procedures and investment philosophies in agreement between the "Advisor" and "Investor". The IPS will also cover the investors long terms goals. Although the IPS does not serve as a contract, it will provide guidelines as to what is expected of both the "Advisor" and "Investor". This IPS is proposed to serve as a summary of what has been discussed between the "Advisor" and "Investor". The investments considered under this IPS amount to the approximate value of \$995,418.90.

Investment Objective

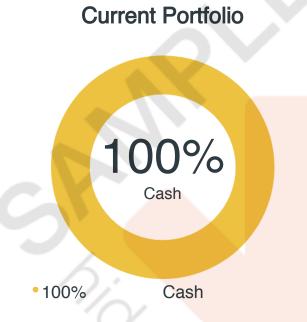
Based on the HiddenLevers risk tolerance questionnaire and discussion between the Advisor and Investor, the investors Risk Profile for the assets is, Income + Growth (35).



For the purpose of this IPS, the Investor plans to make the first significant withdrawals in Over 10 years. The Investor's liquidity needs from the investment portfolio is \$50000, per year. However, no future results can be guaranteed.

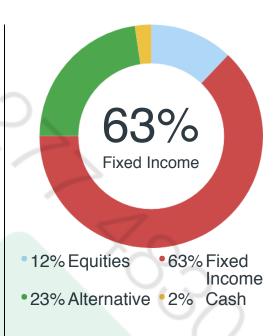


Portfolio Allocations



Asset Allocation

Proposed Portfolio





Stress Test Risk

Your specified risk tolerance is 35





Available Securities

Investor's funds will be restricted to the following securities.

Asset Classes

Money Market Funds

U.S. Short Term Taxable Bonds

U.S. Intermediate Term Taxable Bonds

Short and Intermediate Term Muni Bonds

Bonds: Non-U.S. Bonds

U.S. Equities Large Cap

U.S. Equities - Mid Cap

U.S. Equities - Small CapWorld Stocks (Ex. U.S.)

Non-U.S. Large Stocks - Developed Countries

Non-U.S. Small Stocks - Developed Countries

Foreign Equities: Emerging Markets, Frontier Markets

Global Real Estate Securities

Daily Liquid Alternative

Tactical Trading

Currency

Commodities

Monitoring Portfolio

The Advisor will oversee the investment portfolio's performance along with the specified objectives. The Advisor and Investor agree to review this IPS every 6 months, in which they will reevaluate any changes to the financial situation and investment objectives or goals.

Notes



Asset Allocation Bands

Jane Beneficiary Current Proposed

Registration: Individual Brokerage

Investment Risk Objective: Income + Growth

Asset Class	Lower	Target	Upper
Equities	0%	12%	20%
Fixed Income	60%	63%	100%
Alternative	0%	23%	30%
Cash	1%	2%	11%



Acknowledgment

Adoption

- Projections and information stated in this Investment Policy Statement do not reflect or predict investment results and it cannot be assumed that any investments or recommendations made under this IPS will be profitable.
- 2. Results may vary over time and from client to client, based on market performance.
- 3. The purpose of the HiddenLevers risk tolerance questionnaire is to give both Advisor and Investor an idea of the risk the Investor is willing to incur.
- 4. The purpose of this statement is to establish an understanding between the "Investor(s)" listed below and the "Advisor" regarding investment objectives, goals and guidelines for Investor's investment management account. Given changes in the market, this statement is intended to provide guidance for the objectives set forth in this document.
- 5. Due to the nature of investing, the Investor should be prepared to the possibility of bearing loss.
- 6. I/we hereby affirm that the information contained in this Investment Policy Statement accurately reflects and describes my/our investment objectives and goals. In the event of any necessary changes, I will inform Advisor, in writing, of any material changes in our financial situation and/or my investment objectives, which might affect the investment of my assets.

7 (d.op (1.01)		
Adopted by:		
Client Name	Client Signature	Date
	(C)	
Christopher Salyer Tier0Demo		
September 21, 2021		



Performance, Expenses, and Risk Considerations

					Ann	ualized F	leturn	
Symbol	Nome	Asset Class	Expense Ratio	1 Year	3 Years	5 Years	10 Years	Inception
AGG	iShares Core U.S. Aggregate Bond ETF	0.00% Equities, 6.72% Cash, 41.32% Fixed Income: Government, 27.44% Fixed Income: Corporate, 22.69% Fixed Income: Securitized, 0.70% Fixed Income: Municipal	0.03	-0.00%			3.01%	3.94%
PFF	iShares Preferred and Income Securities ETF	89.44% Alternative, 9.23% Equities, 1.33% Cash, 0.00% Fixed Income	0.46	12.36%	7.15%	5.31%	6.48%	4.68%
WBII	WBI BullBear Global Income ETF	2.87% Cash, <1% Equities: Domestic Large Value, 0.94% Equities: International Developed Markets, 9.99% Fixed Income: Government, 85.59% Fixed Income: Corporate	1.03	5.34%	5.01%	3.08%		2.58%
BIL	SPDR Bloomberg Barclays 1-3 Month T-Bill ETF	100.00% Fixed Income	0.14	-0.06%	0.98%	0.96%	0.45%	0.62%
VIG	Vanguard Dividend Appreciation Index Fund ETF Shares	0.00% Alternative, <1% Cash, 0.00% Fixed Income, 17.88% Equities: Domestic Large Value, 8.94% Equities: Domestic Mid Blend, 53.65% Equities: Domestic Large Blend, 4.97% Equities: Domestic Mid Value, 0.99% Equities: Domestic Small Blend, 11.92% Equities: Domestic Large Growth, 0.99% Equities: Domestic Mid Growth, 0.61% Equities: International Developed Markets	0.06	21.66%	11.71%	13.49%	11.70%	7.68%
VTI	Vanguard Total Stock Market Index Fund ETF Shares	0.00% Alternative, -0.02% Cash, 0.00% Fixed Income, 16.52% Equities: Domestic Large Value, 8.75% Equities: Domestic Mid Blend, 23.32% Equities: Domestic Large Blend, 1.94% Equities: Domestic Small Growth, 5.83% Equities: Domestic Mid Value, 3.89% Equities: Domestic Small Blend, 31.09% Equities: Domestic Large Growth, 2.92% Equities: Domestic Small Value, 4.86% Equities: Domestic Mid Growth, 0.79% Equities: International Developed Markets, <1% Equities: Emerging Markets	0.03	34.82%	16.19%	17.45%	15.96%	8.92%
SPY	SPDR SP 500 ETF Trust	0.00% Alternative, <1% Cash, 0.00% Fixed Income, 18.79% Equities: Domestic Large Value, 6.92% Equities: Domestic Mid Blend, 24.73% Equities: Domestic Large Blend, 4.95% Equities: Domestic Mid Value, 40.55% Equities: Domestic Large Growth, 2.97% Equities: Domestic Mid Growth, 0.89% Equities: International Developed Markets, <1% Equities: Emerging Markets	0.09	32.92%	16.12%	17.37%	15.93%	10.36%
BFMCX	BlackRock Core Bond Portfolio Institutional Shares	0.00% Equities, 9.73% Cash, 26.56% Fixed Income: Government, 36.06% Fixed Income: Corporate, 25.80% Fixed Income: Securitized, 0.69% Fixed Income: Municipal	0.45	0.81%	6.30%	3.57%	3.62%	5.22%
VRIVX	Vanguard Institutional Target Retirement 2025 Fund Institutional Shares	<1% Cash, 7.12% Equities: Domestic Large Value, 2.85% Equities: Domestic Mid Blend, 9.62% Equities: Domestic Large Blend, <1% Equities: Domestic Small Growth, 2.14% Equities: Domestic Mid Value, 1.07% Equities: Domestic Small Blend, 9.62% Equities: Domestic Large Growth, 0.71% Equities: Domestic Small Value, 1.78% Equities: Domestic Mid Growth, 17.87% Equities: International Developed Markets, 4.92% Equities: Emerging Markets, 24.44% Fixed Income: Government, 9.99% Fixed Income: Corporate, 7.12% Fixed Income: Securitized, <1% Fixed Income: Municipal		16.94%	10.14%	10.14%		8.40%
DPFFX	Delaware Diversified Income Fund Institutional Class	0.00% Equities, 6.55% Cash, 16.95% Fixed Income: Government, 40.30% Fixed Income: Corporate, 40.63% Fixed Income: Securitized, <1% Fixed Income: Municipal	0.45	2.65%	7.35%	4.61%	4.02%	6.18%



IMPORTANT:

The projections generated by HiddenLevers regarding the likelihood of various investment outcomes are hypothetical in nature, do not reflect actual investment results, and are not guarantees of future results. Assumptions on rates of return and standard deviation used in this analysis are based on historical return data for each security and asset class. Past performance is no guarantee of future results. Results may vary with each use and over time. You cannot invest directly in a benchmark or index. Index results do not reflect fees, expenses, or sales charges incurred when making investments.

Methodology Used to Generate this Report:

Definitions:

Beta - Beta measures the relationship between an investment and a major market index (the S&P 500 is used in this report). A beta of 1.0 means that a 1% rise in the S&P 500 could lead to a 1% rise in the investment, while a beta of -0.5 means that a 1% rise in the S&P 500 could lead to a 0.5% drop in the investment. The beta for an investment is determined by using regression analysis to measure the relationship between the returns of the investment and the returns of the S&P 500. HiddenLevers uses 10 years of data to measure the beta for an investment. For investments with less than 10 years of history, all available historical data is used.

Cross Correlations - HiddenLevers measures the correlation between every pair of investments in the portfolio. The correlation results can vary between 1 and -1, where a correlation of 1 means that two investments move together perfectly over time, and a correlation of -1 means that two investments move in opposite directions over time.

Expected Return - This is the 5-year total return of the portfolio based on the stress test scenarios selected for the report. The system takes the weighted average of the economic scenarios to calculate a one-year return, which is then compounded to determine the five-year return.

Lever - HiddenLevers tracks different levers (economic indicators) like CPI, US GDP Growth, and oil prices, and uses movements in these levers to define economic scenarios.

Lever Impact - The lever impacts section describes the impact of different economic levers on the portfolio as a whole. An S&P lever impact of 1.0, for example, means that a 1% rise in the S&P 500 is projected to lead to a 1% rise in the portfolio. HiddenLevers similarly measures the impact of a range of economic levers on the portfolio.

Maximum Drawdown (MDD) - this is measured as the largest percentage drop in a position during the timeframe of measurement. Click the + sign on the Risk Measures box to see the timeframe of measurement for Max Drawdown in the top right hand corner of the box.

Scenario - A scenario is a representation of a major macro-economic or geopolitical event which has the potential to impact investment returns. HiddenLevers models scenarios as a set of up-or-down movements in any of the economic indicators (levers) in the system.

Scenario Impacts - Using HiddenLevers' stress testing model, an upside and downside impact are projected for the portfolio in each scenario. Most scenarios are modeled with multiple potential outcomes, with both positive, neutral, and negative outcomes considered. The best and worst projections are derived from running the different scenario outcomes against the portfolio in HiddenLevers model. The scenario-based stress testing model is discussed in detail in the Method section below.

Sharpe Ratio - The Sharpe Ratio is the a measure for calculating risk-adjusted return, and this ratio has become the industry standard for such calculations. It was developed by Nobel laureate William F. Sharpe. The Sharpe ratio is the average return earned in excess of the risk-free rate per unit of volatility or total risk. HiddenLevers calculates the Sharpe ratio by subtracting (12M) T-bill rates from the portfolio's annualized total return, and then dividing by the portfolio's volatility (annualized standard deviation).

Stress Test Risk/Reward - The Stress Test Risk/Reward compares the portfolio's potential downside risk against the 5 year expected return of the portfolio.

Downside Risk: This is the maximum downside calculated across all of the scenarios included in the report.

5 Year Expected Return: HiddenLevers first calculates the expected return for the portfolio by calculating the one-year weighted average expected return across all included scenarios. The one-year expected return is then compounded to obtain a 5 year return estimate. Historically, major downside events occur roughly twice a decade, making 5 years an appropriate timeframe for comparison of long term returns and downside scenario risk.

Volatility - HiddenLevers measures volatility as the annualized standard deviation of an investment or portfolio, expressed in percentage terms. The standard deviation is calculated using weekly data points, and is then annualized by multiplying by the square-root of 52 (number of periods in one year).

Method:

This report describes one or more potential scenarios, and shows the HiddenLevers-model based performance for the portfolio in each scenario. The steps below are performed to generate the projections: Scenario -> Levers -> Assets (Stocks etc) -> Portfolio Return

A scenario pushes levers up or down, which in turn push assets up or down, which in turn impact a portfolio's modeled return in the scenario. As defined above, a scenario is modeled as a set of movements in the levers. Regression analysis is used to determine the historical (prior 10 year) relationship between each lever and each asset in the portfolio. The model is then run 2500 times for each scenario/portfolio combination. In each iteration, the model projects the returns for each asset using the historical regression coefficients for each lever, and using the scenario assumptions on how each lever will change. The model varies the regression coefficients for each iteration using a normal distribution around their mean (similar to a Monte Carlo model's varying of expected returns across iterations), and aggregates the results of the 2500 iterations to find a mean portfolio return with a 95% confidence interval. The confidence interval is displayed on the report as "margin of error" for each scenario.

Limitations and Assumptions:

This report describes one or more potential scenarios that may or may not occur. Each scenario discussed in this report is defined by the economic assumptions listed in the Outcome section of each scenario page.

HiddenLevers does not guarantee that any particular scenario will occur as modeled in this report. HiddenLevers uses historical analysis in the creation of this report, and past performance is not a guarantee of future results. The information contained in this report is not to be construed as advice and should not be confused as any sort of advice. Investors should consider this report as only a single factor in making their investment decision.

Disclosures:

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