

Faculty & Staff Convocation

Mini-Conference

August 8, 2022

How to Manage Your Retirement Portfolio in a Volatile and Scary Market

Retirement dreams are nice, but they require long-term planning and discipline. Volatile markets and sudden big drops in asset values make investors nervous, and sometimes push them to do irrational things. Let's discuss how to turn periods with high volatility and decreasing asset values into great opportunities for your retirement

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5 SMART INVESTING STRATEGIES

- Market Trends Don't Time The Market
- Asset Allocation
- Investment Selection
- Dollar-cost Averaging
- Rebalance Your Portfolio (not related to item #1)

WHY DO MARKETS EXPERIENCE SO MUCH VOLATILITY?

- Markets think forward, and value assets based on expectations
- Unforeseen events (crises) change valuation models
- US, I am serious.... Human overreaction
- Doing nothing (after diversification) is the best
 - strategy, most of the time
 - Will elaborate ②

HISTORICGEOPOLITICAL EVENTS

STAY CALM AMID MARKET VOLATILITY

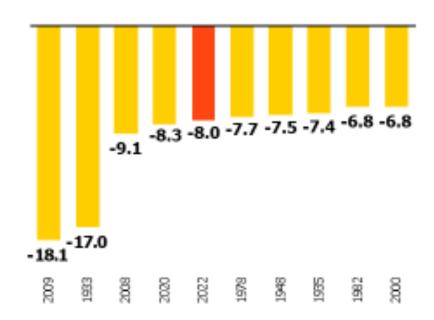
Event*	Date	3 months before	1 month later	3 months later	1 year later	3 years later (Avg. annual)
Germany invades Poland	3/1/1939	-0.2%	-13.5%	-8.7%	-4.3%	-12.2%
Pearl Harbor attack	12/7/1941	-8.7%	-2.9%	-12.6%	0.2%	11.6%
N. Korea invades S. Korea	6/25/1950	9.0%	-8.7%	1.6%	12.6%	8.0%
Cuban missile crisis	10/16/1962	-1.0%	4.7%	13.7%	26.4%	16.9%
Gulf of Tonkin incident	8/2/1964	3.8%	-1.2%	2.0%	2.5%	4.7%
Soviets invade Afghanistan	12/24/1979	-1.5%	2.1%	8.5%	39.6%	15.3%
Iraq invades Kuwait	8/2/1990	8.0%	-8.9%	-12.8%	12.8%	11.5%
September 11th attack	9/11/2001	-13.3%	-0.9%	4.7%	-15.5%	2.7%
Iraq war	3/20/2003	-0.7%	2.4%	14.3%	29.2%	16.4%
Russia annexes Crimea	2/20/2014	2.8%	1.9%	3.6%	17.1%	11.1%
Russia invades Ukraine	2/24/2022	-9.6%	?	?	?	?

Sources BackPot; Vaningstar as of 2/26/22. "Peturns show for events prior to 1979 are represented by the SEP 500 PFIndex, which shows principal returns only (excluding dividends), from 1/1/29 to 12/31/76. Returns for events in 1979 or later are represented by the SEP 500 PFIndex, which shows to invest directly in an index Past performance discovering purposes only. It is not possible to invest directly in an index Past performance discovering purposes only it is not possible.

Worst starts to a year for stocks

10 worst starts of the year for stocks

(1/1/26 - 2/28/22, total return for first two months of calendar year)



Returns after each "worst start"

(1/1/1926-2/28/22)

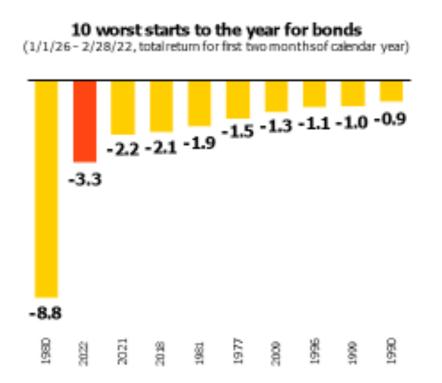
Year	First 2 months	Next 10 months
2009	-18.1	54.6
1933	-17.0	85.6
2008	-9.1	-30.7
2020	-8.3	29.1
2022	-8.0	?
1978	-7.7	15.4
1948	-7.5	14.1
1935	-7.4	59.4
1982	-6.8	30.5
2000	-6.8	-2.5
Avg.	-9.7	28.4

Source: Womingster as of 2/25/22, U.S. stocks are represented by the SEP500 Index from 3/4/57 to 2/25/22 and the IA-558 LS. Log Stock Tr LSD Index from 1/1/25 to 3/4/57, unmanaged index either are generally considered experienced of the U.S. stock market during each given fine period. Pad performance does not guarantee or indicate future results. Index performance is for illustrative purposes only. You can not invest directly in the index.

BOND MARKET RETURNS

2nd worst start of a year ever for bonds

On average following the worst starts, the next 10 months saw bond returns bounce back



Returns after each "worst start" (1/1/1926-2/28/22)

Year	First 2 months	Next 10 months
1980	-8.8	12.6
2022	-3.3	?
2021	-2.2	0.6
2018	-2.1	2.1
1981	-1.9	8.3
1977	-1.5	4.7
2009	-1.3	7.3
1996	-1.1	4.8
1999	-1.0	0.2
1990	-0.9	9.9
Avg.	-2.5	5.6

Source: Womingster as of 2/28/02: U.S. bonds represented by the AISES US Gov T index before 1/3/69 and the Scomberg US Agg Sond TR index after 1/3/69. Pastperformance does not guarantee or indicate future results. Index performance is for illustrative purposes only. You cannot invest directly in the index

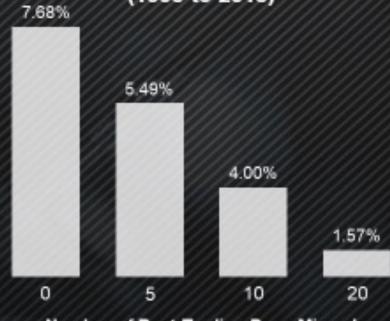
FEAR, GREED & MARKET TIMING



This illustration is a hypothetical example. It is not representative of any investment or combination of investments. Actual results will vary.

MISSING THE MARK





Number of Best Trading Days Missed

Source: Index Fund Advisors, March 28, 2017 (Latest data available.)

Past performance does not guarantee future results. Individuals cannot invest directly in an index. Actual results will vary.

INVESTMENT MATTERS - 5 SMART INVESTMENTING STRATEGIES

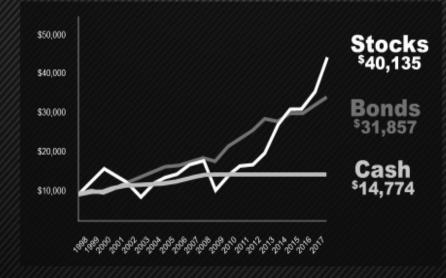
THE POWER OF ASSET ALLOCATION



Source: Brinson, Singer, and Beehower. 'Determinants of Postfolio Performance II. An Update.' The Financial Analysts Journal, 1991. Past performance does not guarantee future results. Asset allocation is an approach to help manage investment risk, it does not eliminate the risk of loss if security prices decline.

INVESTMENT MATTERS / SMART INVESTMENTING STRATEGIES

A LONG-TERM LOOK AT PERFORMANCE



This is a hypothetical example used for illustrative purposes only. It is not representative of any specific investment or combination of investments

SELECTING AMONG ASSET CLASSES

- Fixed Interest
- Stocks
- Bonds
- Cash Equivalents
- Speculative

Diversification and asset allocation are approaches to help manage investment risk. They do not eliminate the risk of loss if security prices decline. Past performance does not guarantee future results. Actual results will vary.

A diversified portfolio can work even though it never feels good

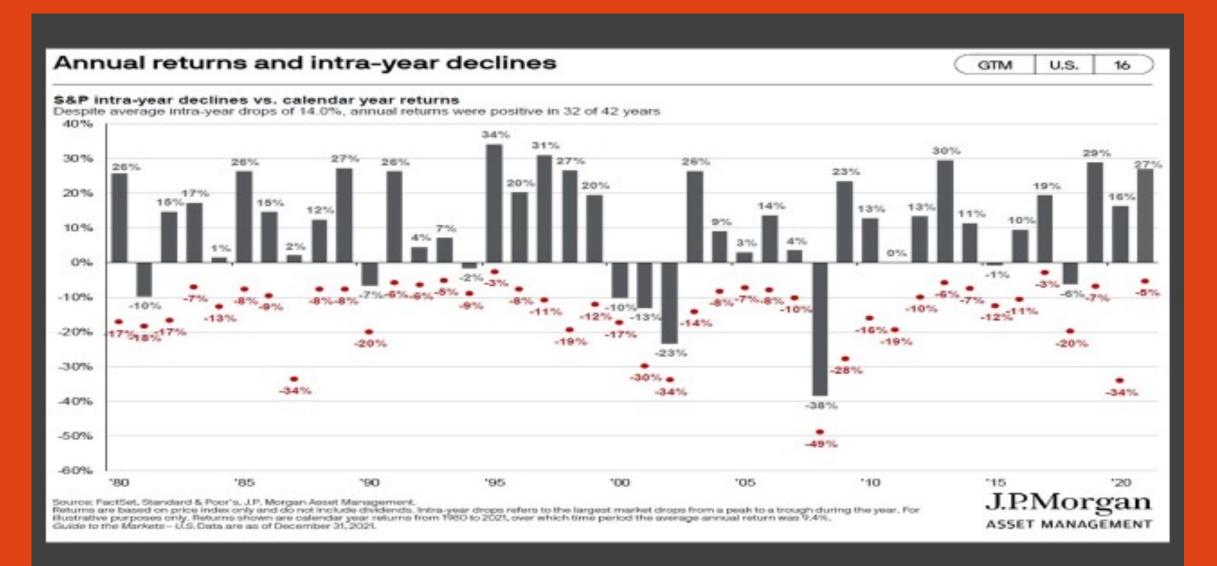
Last 20+ years

25% U.S. large stocks, 19% U.S. mid cap stocks, 7% international stocks, 5% U.S. small cap stocks, 4% emerging market stocks, 25% U.S. bonds, 15% high yield bonds

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Years	S&P 500	Diversified Portfolio	_	
2000-2002 [†]	-40.1%	-15.7%		"I lost money"
2003-2007	82.9%	87.1%		"Diversification worked"
2008	-37.0%	-26.6%		"I lost money"
2009–2019	351.0%	220.1%		"I didn't make as much"
2020 [†]	-30.4%	-23.1%		"I lost money"
2020-2021	119.0%	66.6%		"I didn't make as much"
Total Return	374.6%	375.0%		"Diversification can work even
Gr \$100K	\$474,550	\$474,970		when it feels like its losing"

Source: Morningstar as of 12/31/21. 'Performance is from 9/1/2000 to 12/31/02. Performance is from 1/1/20 to 3/23/20. 'Performance is from 3/24/20 to 9/30/20. Diversified Portfolio is represented by 25% S&P 500 Index, 7% MSCI EAFE Index, 5% Russell 2000 Index, 25% Bloomberg Barclays US Aggregate Bond Index, 15% Bloomberg Barclays US Orporate High Yield Index, 4% FTSE Emerging Stock Index.. Past performance does not guarantee or indicate future results. Index performance is for illustrative purposes only. You cannot invest directly in the index.

Panic kills potential returns, even from the best portfolios



LET US REMEMBER:

- Watch market trends, but do not panic, and do not time the market
- Asset Allocation (age/timing appropriate)
- Investment Selection (allocation is key)
- Dollar-cost Averaging (buy more when low)
- Rebalance Your Portfolio (not related to item# 1)

