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# **INFLATION SURGE: HOW TO INVEST**

## **+ 3 PITFALLS TO AVOID**

**AAll Los Angeles**

Taylor R. Schulte, CFP®  
Founder & CEO, Define Financial



# AGENDA

- 1) About Us
- 2) Let's Have a Little Fun 😊
- 3) Inflation Review
- 4) Gold & Inflation
- 5) How to Invest
- 6) Pitfalls to Avoid
- 7) Q&A

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# DEFINE FINANCIAL

## ABOUT US



Taylor R. Schulte, CFP®  
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ASSOCIATE FINANCIAL PLANNER



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CLIENT SERVICE MANAGER



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## DEFINE FINANCIAL ABOUT US

- Retirement + tax planning for investors over age 50
- \$150MM, 85 families
- **Philosophy:**
  - Focus on the things you can control
  - Retirement Plan → Diagnosis
  - Investments → Prescription

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 **DEFINE FINANCIAL**

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**LET'S HAVE A LITTLE FUN** ☺



LET'S HAVE A LITTLE FUN ☺

**From 1965 – 1995 (30 yrs):**

**If you invested at the peak of the market in each year...your annual return was +10.6%.**

**If you timed the market perfectly...invested at the low point of each year...your return was +11.7%.**

*The difference between great timing and lousy timing was only 1.1%. Time in the market, is often more important than timing the market.*

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LET'S HAVE A LITTLE FUN ☺

**For the last 100 years, the stock market has declined at least 10% on average every 11 months.**

In other words, if an “expert” **predicts an upcoming 10% decline**, they should really just say:

**“Everything is normal and this upcoming correction happens, on average, every 11 months.”**



LET'S HAVE A LITTLE FUN ☺

**If you retired in the year 2000:**

- With \$1 Million
- Invested it in the **Vanguard Total Stock Market** index fund
- Withdrew \$50k per year (adjusted for inflation)

**...you would have been out of money by 2018!**



## LET'S HAVE A LITTLE FUN ☺

**If you retired in the year 2000:**

- With \$1 Million
- Invested it in an academically sound global portfolio
  - (i.e., *Value, Small Cap, Profitability*)
- Withdraw \$50k per year (adjusted for inflation)

...you would have had **\$2.5 Million** in 2018 instead.

Your asset allocation is very important + market-cap weighted funds (even good ones like Vanguard!) can present little-known risks to investors.

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# **INFLATION REVIEW**



# INFLATION

## WHY?

- Inflation is one of the biggest threats to retirement:
  - Nominal vs Real Returns
  - \$1MM in 2000 = ~\$1.8MM Today
  - ¼ of Americans delaying retirement due to rising costs
- Lack of inflation adjustments by IRS:
  - Mortgage interest deduction (capped \$750k)
  - Real estate capital gains exclusion in 1997 (\$500k → Today Hypothetical = \$900k)
  - Social Security taxation limits set in 1994 (\$44,000/\$34,000 → Today Hypothetical \$80,000/\$62,000)
- Lack of pension inflation adjustments (private)
  - 68% of retirees over age 65 collect pensions

Sources: BLS.gov, BMO

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# INFLATION WHY?

## Performance

Monthly: 1/1/1970 - 12/31/1979

Rates of Return (%)			
	Name	Annualized Return	Cumulative Return
	S&P 500 Index	5.86	76.76
	US Consumer Price Index	7.36	103.45

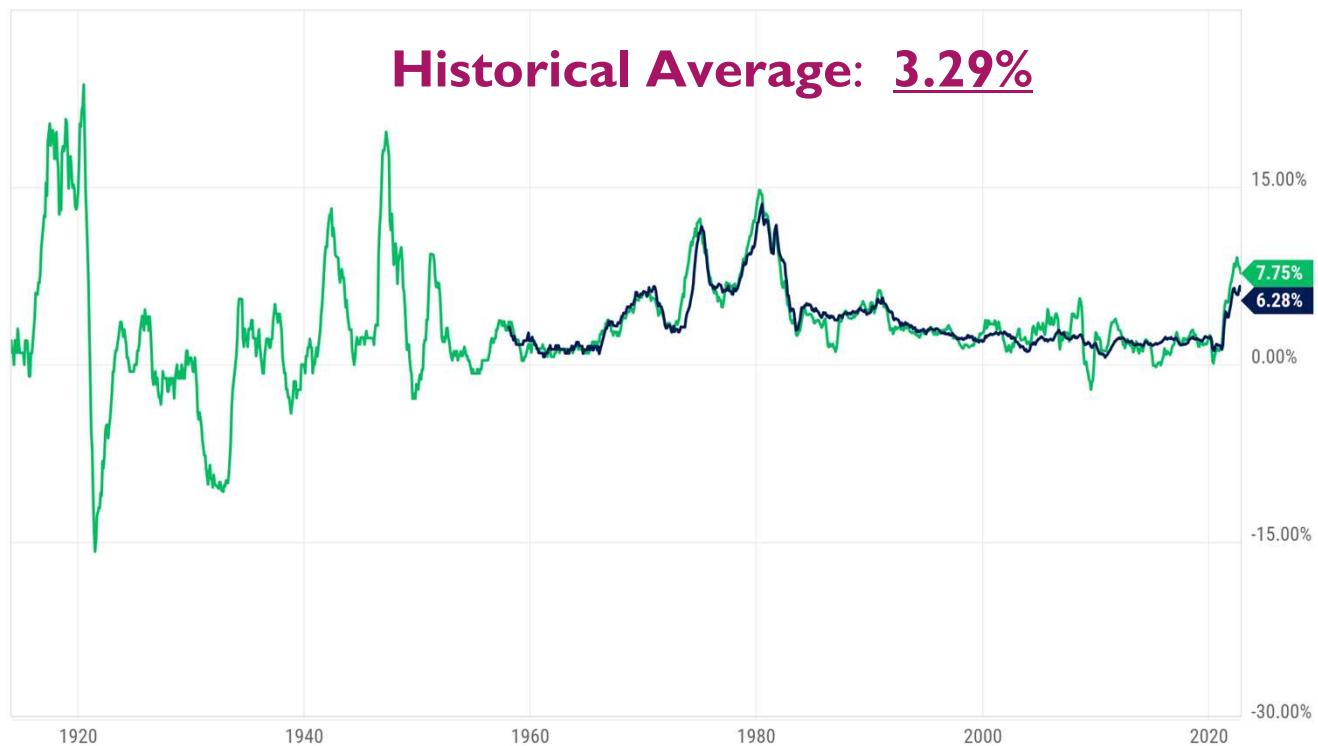
Source: DFA Returns

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### US Historical Inflation (1922 - 2022)

- US Inflation Rate
- US Core Inflation Rate

**Historical Average: 3.29%**



Nov 17 2022, 5:01PM EST. Powered by YCHARTS

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# INFLATION

## FED PROJECTION (SEP 2022)

Percent

Variable	Median <sup>1</sup>					Central Tendency <sup>2</sup>					Range <sup>3</sup>				
	2022	2023	2024	2025	Longer run	2022	2023	2024	2025	Longer run	2022	2023	2024	2025	Longer run
Change in real GDP	0.2	1.2	1.7	1.8	1.8	0.1–0.3	0.5–1.5	1.4–2.0	1.6–2.0	1.7–2.0	0.0–0.5	-0.3–1.9	1.0–2.6	1.4–2.4	1.6–2.2
June projection	1.7	1.7	1.9		1.8	1.5–1.9	1.3–2.0	1.5–2.0		1.8–2.0	1.0–2.0	0.8–2.5	1.0–2.2		1.6–2.2
Unemployment rate	3.8	4.4	4.4	4.3	4.0	3.8–3.9	4.1–4.5	4.0–4.6	4.0–4.5	3.8–4.3	3.7–4.0	3.7–5.0	3.7–4.7	3.7–4.6	3.5–4.5
June projection	3.7	3.9	4.1		4.0	3.6–3.8	3.8–4.1	3.9–4.1		3.5–4.2	3.2–4.0	3.2–4.5	3.2–4.3		3.5–4.3
PCE inflation	5.4	2.8	2.3	2.0	2.0	5.3–5.7	2.6–3.5	2.1–2.6	2.0–2.2	2.0	5.0–6.2	2.4–4.1	2.0–3.0	2.0–2.5	2.0
June projection	5.2	2.6	2.2		2.0	5.0–5.3	2.4–3.0	2.0–2.5		2.0	4.8–6.2	2.3–4.0	2.0–3.0		2.0
Core PCE inflation <sup>4</sup>	4.5	3.1	2.3	2.1		4.4–4.6	3.0–3.4	2.2–2.5	2.0–2.2		4.3–4.8	2.8–3.5	2.0–2.8	2.0–2.5	
June projection	4.3	2.7	2.3			4.2–4.5	2.5–3.2	2.1–2.5			4.1–5.0	2.5–3.5	2.0–2.8		
Memo: Projected appropriate policy path															
Federal funds rate	4.4	4.6	3.9	2.9	2.5	4.1–4.4	4.4–4.9	3.4–4.4	2.4–3.4	2.3–2.5	3.9–4.6	3.9–4.9	2.6–4.6	2.4–4.6	2.3–3.0
June projection	3.4	3.8	3.4		2.5	3.1–3.6	3.6–4.1	2.9–3.6		2.3–2.5	3.1–3.9	2.9–4.4	2.1–4.1		2.0–3.0

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# INFLATION COMMON MISCONCEPTIONS

## 1. Inflation is Predictable

- “Markets provide little useful forward-looking information about inflation. Reports mostly reflect current and past inflation movements...do not contain a lot of useful forward-looking information.” (SF Fed)
- Avg forecasting error was 1.5%
- Wide margin of error when Fed’s target inflation rate is 2-3%

## 2. Current Inflation = Future Inflation

- Monthly reports are backwards looking
- October CPI measures October 2021 – October 2022
- Annual vs Monthly
  - 0.4% in October 2022 vs 0.9% October 2021

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# INFLATION COMMON MISCONCEPTIONS

## 3. Inflation is Bad!

- Inflation increases during economic growth
- Reduces cost of borrowing (paying lender back with \$\$\$ that is worth less than \$\$\$ loaned to you)
- Often leads to higher wages
- Corporations pass higher costs to consumers:
  - When inflation is between 5% and 10%, the real return for stocks= +4.8%

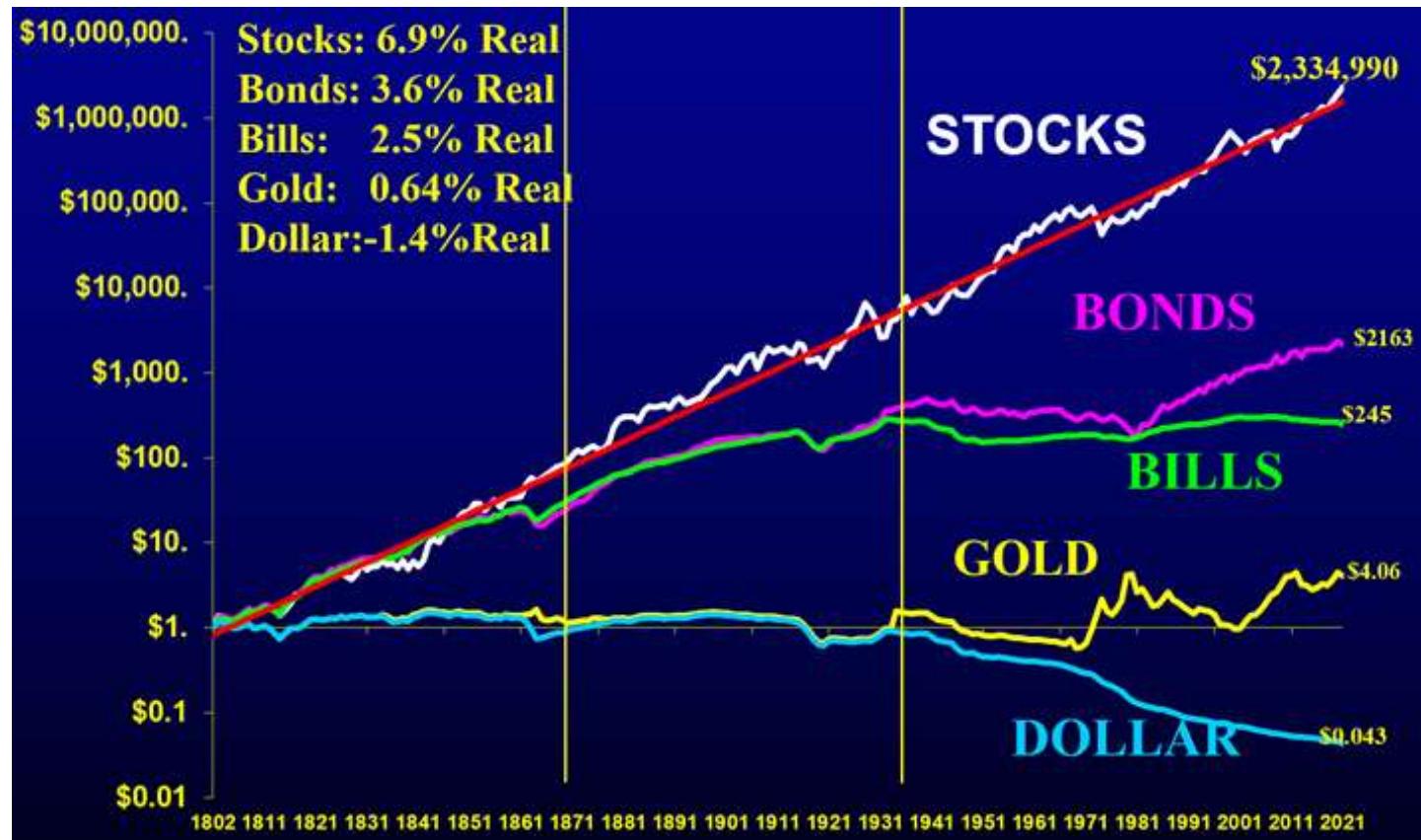
## 4. High Inflation = Hyperinflation

- Slow process, doesn't happen overnight
- Continuous 50% increase year over year
- Occurs around major geopolitical events like losing a war
- Revolutionary War 1779 (Inflation 47%) and the Civil War 1864 (Inflation 40%)

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# **GOLD & INFLATION**



Source: Jeremy Siegel, Stocks for the Long Run

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# GOLD & INFLATION

## Why Not:

- Expensive
- Lacks cash flow/dividends
- High volatility + lower risk-adjusted returns
- Rises in anticipation of inflation, not with inflation (low correlation, market timing)

## Why:

- Buy/sell and *potentially* profit over short periods of time (speculative trading asset class)
- **1970 – 2022**
  - Inflation: +4%
  - Gold: +7.5% ( $SD = 19\%$ )
  - S&P 500 +10% ( $SD = 15\%$ )
- Future ≠ Past

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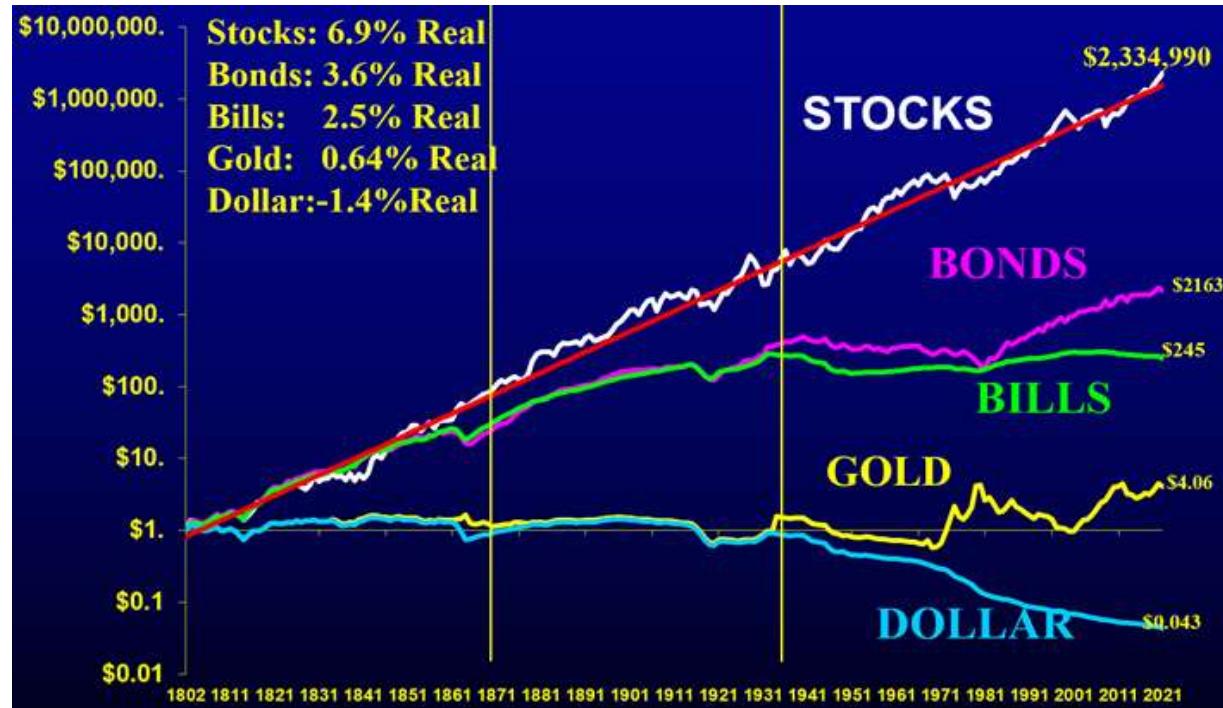
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# **INFLATION: HOW TO INVEST**

# INFLATION: HOW TO INVEST

## I) STOCKS



Source: Jeremy Siegel, Stocks for the Long Run

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# INFLATION: HOW TO INVEST

## I) STOCKS

Inflation	S&P 500	Year
14.4%	5.2%	1947
13.6%	31.7%	1980
11.3%	18.5%	1979
11.1%	-25.9%	1974
10.9%	19.2%	1942
10.3%	-4.7%	1981
9.1%	37.0%	1975
8.5%	-8.4%	1946
7.9%	23.7%	1951
7.7%	5.7%	1948
7.6%	6.5%	1978
6.5%	-7.0%	1977
6.2%	-14.3%	1973
6.1%	20.4%	1982
6.0%	25.1%	1943
5.8%	3.6%	1970
5.7%	23.8%	1976

### Highest Calendar Year Inflation Rates vs S&P 500 (Since 1928):

- Avg annual return = +9.4%
- ~50% of time periods had double-digit returns
- Returns were 20%+ during 1/3 of the years

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## Performance

Monthly: 1/1/1926 - 9/30/2022

Rates of Return (%)	
Name	Annualized Return
S&P 500 Index	10.07
US Consumer Price Index	2.95

Source: DFA Returns

- Corporations pass higher costs to consumers
- U.S. dividends and earnings have grown ~5%/year

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## Performance

Monthly: 7/1/1926 - 9/30/2022

Rates of Return (%)	
Name	Annualized Return
Fama/French US Small Value Research Index	14.25
Fama/French US Small Growth Research Index	8.73
US Consumer Price Index	2.97

Source: DFA Returns

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# HOW TO INVEST

## 2.) BONDS

### Performance

Monthly: 1/1/1926 - 9/30/2022

#### Rates of Return (%)

Name	Annualized Return
US Consumer Price Index	2.95
Five-Year US Treasury Notes	4.87

Source: DFA Returns

- Higher inflation → higher interest rates
- Reinvest maturing bonds at higher yields
- Best predictor of bond return is starting yield

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## HOW TO INVEST

### 2.) BONDS

#### Why Bonds Outperform Inflation:

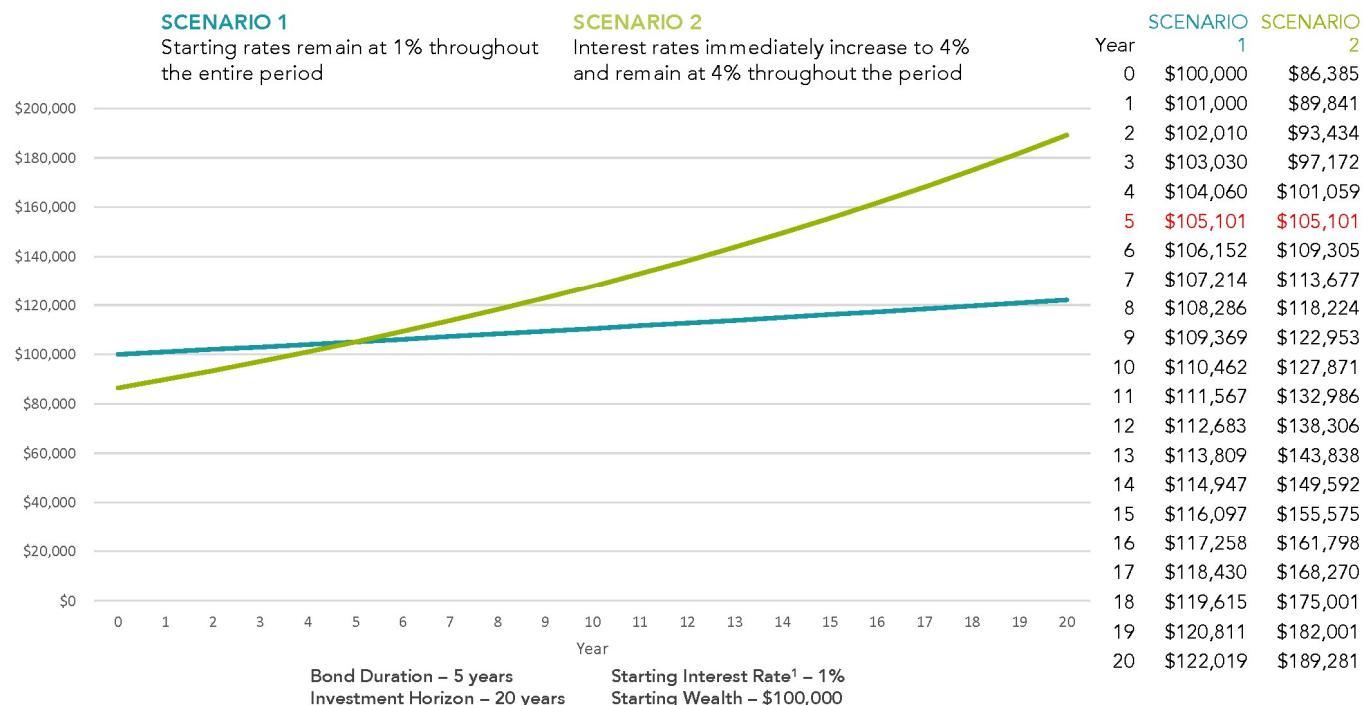
- Higher inflation = higher interest rates
- Reinvest maturing bonds at higher yields
- Best predictor of bond return is starting yield

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## Case Study: Growth of Wealth

Bond Duration is Less Than Investment Horizon



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1. Assumes flat yield curve.

For illustrative purposes only. Case study is provided for informational purposes only. Data presented in the Growth of Wealth chart are hypothetical and based on mathematical principles, are not representative of indices, actual investments or actual strategies managed by Dimensional, and do not reflect costs and fees associated with an actual investment. Fixed income securities are subject to increased loss of principal during periods of rising interest rates. Fixed income investments are subject to various other risks, including changes in credit quality, liquidity, prepayments, call risk, and other factors.

2



# HOW TO INVEST

## 3) TREASURY INFLATION PROTECTED SECURITIES (TIPS)

### Performance

Monthly: 3/1/1997 - 9/30/2022

Rates of Return (%)	Name	Annualized Return
	US Consumer Price Index	2.45
	Bloomberg U.S. TIPS Index	4.69
	Bloomberg U.S. Treasury Bond Index	3.90

Source: DFA Returns

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## HOW TO INVEST

### 3) TIPS

- US Govt Bonds designed to deliver after-inflation returns over long-term
- In the short-term, TIPS are volatile:
  1. Contain interest rate risk
  2. Inflation-adjustment paid at maturity (5, 10, or 30 years)
- Outperform when inflation is ABOVE market expectations
  - **2021:** TIPS outperformed nominal bonds by ~5.5% (*TIP* vs *GOVT*)
  - **2022:** High inflation already priced in
- Current inflation already baked into prices/yields
- Swensen philosophy:
  - TIPS and Nominal Bonds Split 50/50
  - Active market timing decision to overweight TIPS

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## HOW TO INVEST SUMMARY

**Primary goal of investing is to combat inflation:**

1. Diagnosis (retirement/financial plan) drives asset allocation (prescription)
2. Diversify between stocks, bonds (nominal and TIPS), and cash
3. Minimize costs
4. Focus on the things you can control
5. Stay the course



# **3 PITFALLS TO AVOID**



# INFLATION

## 5 PITFALLS TO AVOID

1. Timing inflation and the market
2. Taking action
  - “Don’t do something, stand there.” ~Jack Bogle
3. Chasing fads and/or complex products
  - Hedge funds/Managed futures
  - Gold/commodities
4. **BONUS** - Failing to factor inflation into your retirement plan
  - Favor higher than average rates in future projections (4-6% vs 2-3%)
5. **BONUS** - Letting the tax tail wag the investment dog

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## FINAL THOUGHTS

1. Get curious
2. Study history
3. Diagnose before prescribing

*“The best use of imagination is creativity. The worst use of imagination is anxiety.” ~Deepak Chopra*

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# Q&A

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