



MONEY SMART DAY 2022

Hosted By: Student Support and Advocacy Center Financial Well-Being Team

Presented By: William H. Bunn, CFA., Thomas L. Finn, CFA., William T. Sena, Jr. CFA, CFP



INVESTMENT 101

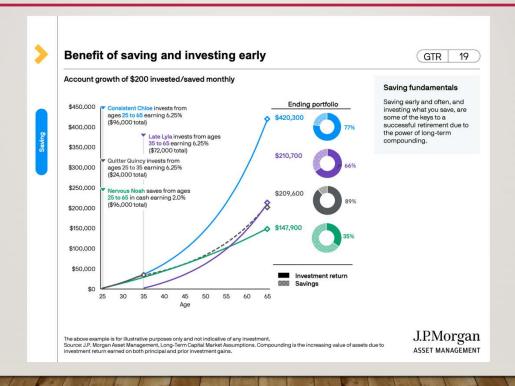
PRESENTERS:

WILLIAM H. BUNN, CFA, RETIRED FROM FORT WASHINGTON INVESTMENT ADVISORS, INC.

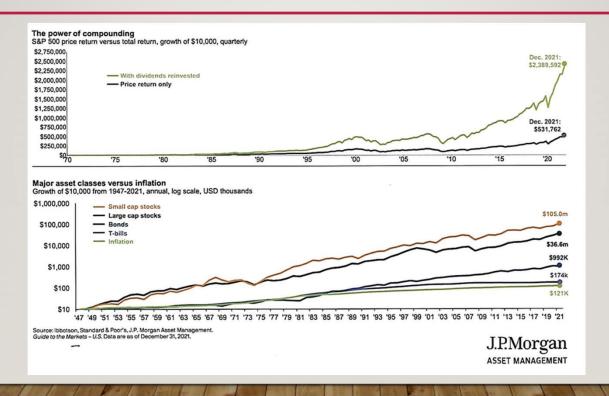
THOMAS L. FINN, CFA, FORT WASHINGTON INVESTMENT ADVISORS, INC.

WILLIAM T. SENA, JR. CFA, CFP, OSBORN, WILLIAMS & DONOHOE

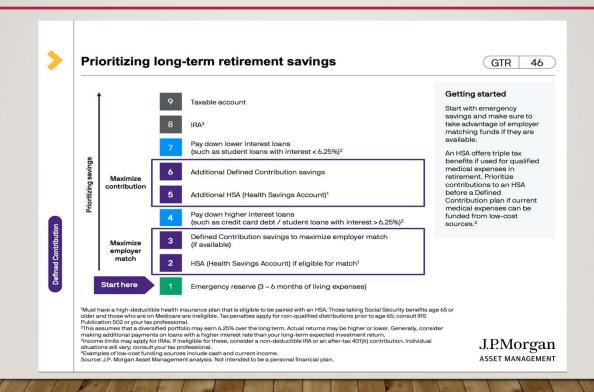
SAVING



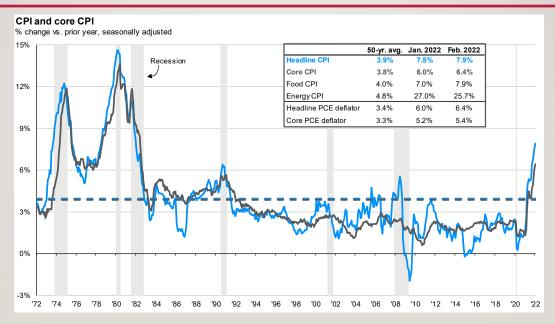
INVESTING PRINCIPLES: THE POWER OF COMPOUNDING



DEFINED CONTRIBUTION



ECONOMY: INFLATION

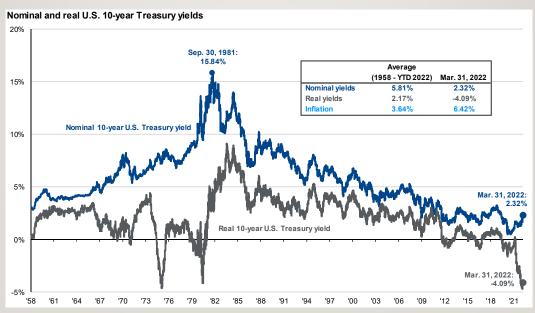


Source: BLS, FactSet, J.P. Morgan Asset Management.

CPI used is CPI-U and values shown are % change vs. one year ago. Core CPI is defined as CPI excluding food and energy prices. The Personal Consumption Expenditure (PCE) deflator employs an evolving chain-weighted basket of consumer expenditures instead of the fixed-weight basket used in CPI calculations.

Guide to the Markets – U.S. Data are as of March 31, 2022.

FIXED INCOME: INTEREST RATES AND INFLATION



Source: BLS, FactSet, Federal Reserve, J.P. Morgan Asset Management.
Real 10-year Treasury yields are calculated as the daily Treasury yield less year-over-year core CPI inflation for that month. For the current month, we use the prior month's core CPI figures until the latest data is available.

Guide to the Markets – U.S. Data are as of March 31, 2022.

EQUITY INVESTING 101: WHAT IS A STOCK?

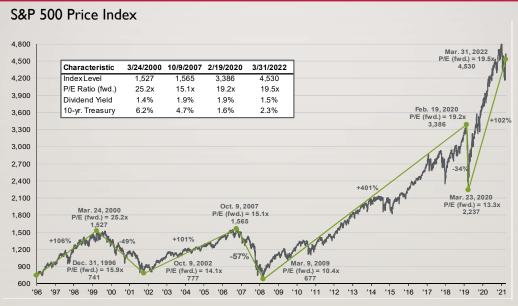
Stocks are securities that represent an ownership share in a company. For companies, issuing stock is a way to raise money to grow and invest in their business. For investors, stocks are a way to grow their money and outpace inflation over time. When you own stock in a company, you are called a shareholder because you share in the company's profits.

Definitions from Nerd Wallet 7/6/21

A **bond** is loan from an investor to a borrower such as a company or government. The borrower uses the money to fund its operations, and the investor receives interest on the investment. The market value of a **bond** can change over time.

What is a mutual fund? A mutual fund is an investment that pools money from investors to purchase stocks, bonds and other assets. A mutual fund aims to create a more diversified portfolio than the average investor could on their own. Mutual funds have professional fund managers buy securities for you.

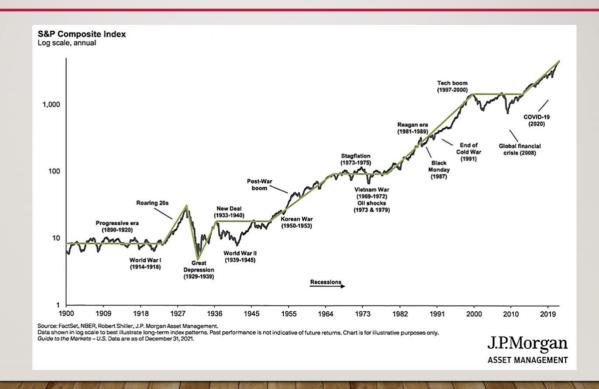
EQUITIES: S&P 500 INDEX AT INFLECTION POINTS



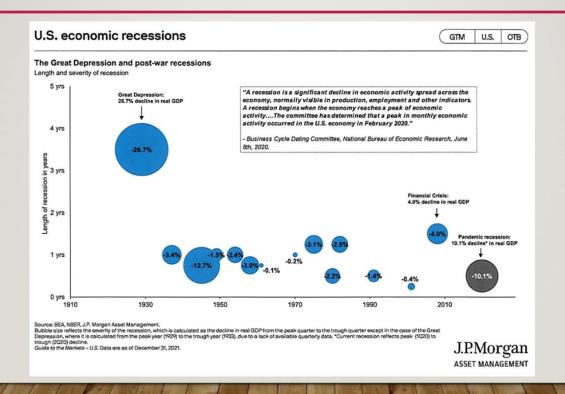
Source: Compustat, FactSet, Federal Reserve, Refinitiv Datastream, Standard & Poor's, J.P. Morgan Asset Management.
Dividend yield is calculated as consensus estimates of dividends for the next 12 months, divided by most recent price, as provided by Compustat. Forward price-to-earnings ratio is a bottom-up calculation based on IBES estimates and FactSet estimates since January 2022. Returns are cumulative and based on S&P 500 Index price movement only, and do not include the reinvestment of dividends. Past performance is not indicative of future returns.

Guide to the Markets – U.S. Data are as of March 31, 2022.

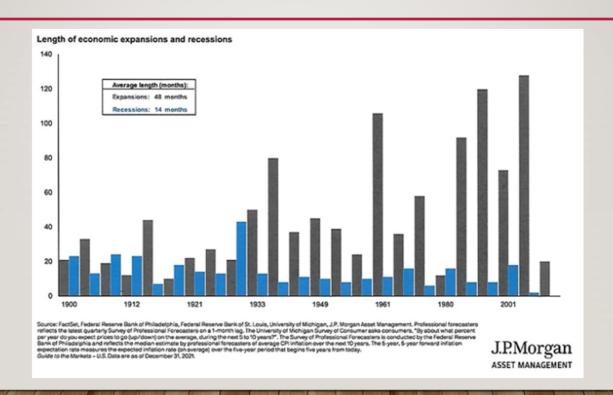
EQUITIES: STOCK MARKET SINCE 1900



ECONOMY: U.S. ECONOMIC RECESSIONS



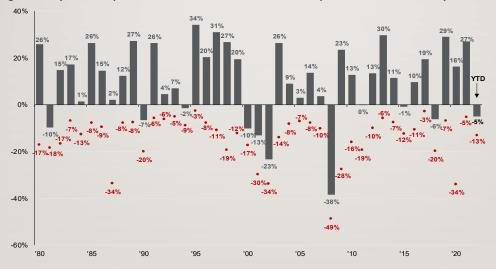
ECONOMY: LENGTH AND STRENGTH OF EXPANSIONS



EQUITIES: ANNUAL RETURNS AND INTRA-YEAR **DECLINES**

S&P intra-year declines vs. calendar year returns

Despite average intra-year drops of 14.0%, annual returns were positive in 32 of 42 years

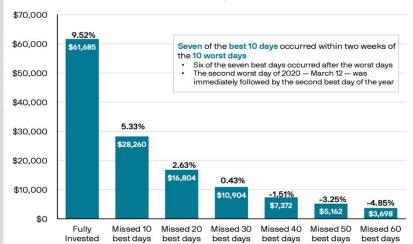


Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management. Returns are based on price index only and do not include dividends. Intra-year drops refers to the largest market drops from a peak to a trough during the year. For illustrative purposes only. Returns shown are calendar year returns from 1980 to 2021, over which time period the average annual return was 9.4%. Guide to the Markets – U.S. Data are as of March 31, 2022.

INVESTING: IMPACT OF BEING OUT OF MARKET

Returns of the S&P 500

Performance of a \$10,000 investment between January 1, 2002 and December 31, 2021



Plan to stay invested

Losses hurt more than gains feel good. Market lows can result in emotional decision making.

Taking "control" by selling out of the market after the worst days is likely to result in missing the best days that follow. Investing for the long term in a well-diversified portfolio can result in a better retirement outcome.

Source: J.P. Morgan Asset Management analysis using data from Bloomberg. Returns are based on the S&P 500 Total Return Index, an unmanaged, capitalization-weighted index that measures the performance of 500 large capitalization domestic stocks representing all major industries. Indices do not include fees or operating expenses and are not available for actual investment. The hypothetical performance calculations are shown for illustrative purposes only and are not meant to be representative of actual results while investing over the time periods shown. The hypothetical performance calculations are shown gross of fees. If fees were included, returns would be lower. Hypothetical performance returns reflect the reinvestment of all dividends. The hypothetical performance results have certain inherent limitations. Unlike an actual performance record, they do not reflect actual trading, liquidity constraints, fees and other costs. Also, since the trades have not actually been executed, the results may have under- or overcompensated for the impact of certain market factors such as lack of liquidity. Simulated trading programs in general are also subject to the fact that they are designed with the benefit of hindight. Returns will fluctuate and an investment upon redemption may be worth more or less than its original value. Past performance is not indicative of future returns. An individual cannot invest directly in an index. Data as of December 31, 2021.

J.P.Morgan
ASSET MANAGEMENT

EQUITY INVESTING 101: RISK AND THE IMPORTANCE OF

TIME AND DIVERSIFICATION

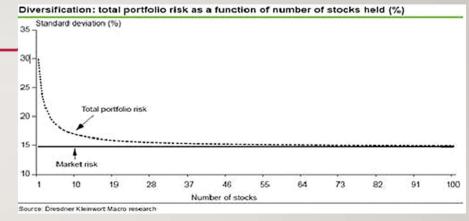
Ways to measure Risk

- Volatility how much the price of a security fluctuates
- Standard Deviation a measure of dispersion from the average
- Beta how volatile is a stock compared to the Index



Source Barclays. Bloomberg, FactSet. Federal Reserve, Robert Shiller, Strategas/Ibbotson, J.P. Morgan Asset Management. Returns shown are based on calendar year returns from 1950 to 2020. Stocks represent the SSP 500 Shiller Composite and B Sharlegas/Ibbotson for periods from 1950 to 2010 and Bloomberg Barclays Aggregate thereafter. Growth of \$100,000 is based folder for the Markets—U.S. Data are as of March 31, 2021.





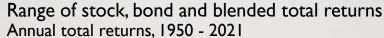
Cautionary Tales!

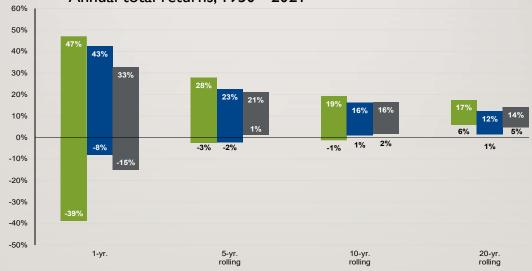
June 2000 - Just 17 months after taking the top job at Procter & Gamble Jager abruptly quit. And P&G was stunningly blunt about what went wrong. Investors promptly knocked 9% off a stock that has already suffered this year -- more than 50% below its high of the past 52 weeks.

After a brutal 2008, Fifth Third's shares have plunged from \$8.26 at the beginning of this year to below \$2 a share, an 80 percent decline... Fifth Third wouldn't comment on the **stock price** or on analysts' opinions.

As of February 2020, GE shares have fallen a whopping 59% since January 2017, when the

INVESTING PRINCIPLES: TIME, DIVERSIFICATION AND THE VOLATILITY OF RETURNS

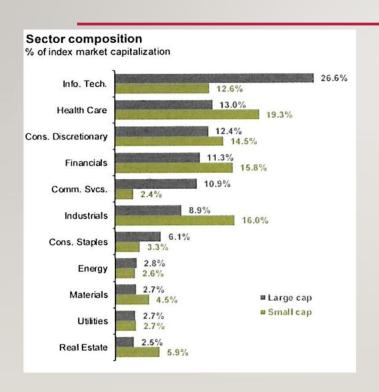




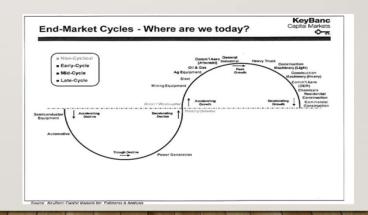
Source: Bloomberg, FactSet, Federal Reserve, Robert Shiller, Strategas/Ibbotson, J.P. Morgan Asset Management.
Returns shown are based on calendar year returns from 1950 to 2021. Stocks represent the S&P 500 Shiller Composite and Bonds represent Strategas/Ibbotson for periods from 1950 to 2010 and Bloomberg Aggregate thereafter. Growth of \$100,000 is based on annual average total returns from 1950 to 2021.

Guide to the Markets – U.S. Data are as of March 31, 2022.

EQUITY INVESTING 101: INDUSTRY SECTORS



- Technology computers, software, semiconductors, known for growth
- **Health Care** pharma, biotech, devices, diagnostics
- Consumer Discretionary retail, auto's, housing, restaurants, travel
- Financials banks, insurance, financial services (ie. brokers)
- Communications Services telco's, cable TV, anything that goes through airwaves or wires (media, search, social)
- Industrials aerospace, ag, transportation, electrical, construction, defense.
- Consumer Staples food, soft drinks, alcohol, household products
- Energy oil, gas, and exploration services
- Materials chemicals, mining, paper, fertilizer, and packaging
- Utilities electric, nat gas, and water
- Real Estate malls, office, apts, nursing homes, self storage, and cell towers



EQUITIES: SECTOR RETURNS

										2012	-2021
2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Ann.	Vol.
	Cons. Disc.	Real Estate	Cons. Disc.	Energy	Info. Tech	Health Care	Info. Tech	Info. Tech	Energy	Info. Tech	Energy
28.8%	43.1%	30.2%	10.1%	27.4%	38.8%	6.5%	50.3%	37.6%	54.6%	24.0%	29.0%
Cons. Disc.	Health Care	Utilities	Health Care		Materials	Utilities	Comm. Services	Cons. Disc.	Real Estate	Cons. Disc.	Financials
23.9%	41.5%	29.0%	6.9%		23.8%	4.1%	32.7%	30.6%	46.2%	19.6%	18.9%
Real Estate	Industrials	Health Care	Cons. Staples	Financials	Cons. Disc.	Cons. Disc.	Financials	Comm.	Financials	Health Care	Materials
19.7%	40.7%	25.3%	6.6%	22.8%	23.0%	0.8%	32.1%	Services 23.0%	35.0%	17.2%	17.6%
Telecom	Financials	Info. Tech	Info. Tech	Industrials	Financials	Info. Tech	S&P 500	Materials	Info. Tech	8&P 500	Info. Tech
	35.6%	20.1%	5.9%	18.9%		-0.3%	31.5%	16.6%	34.5%	16.5%	17.6%
Health Care	S&P 500	Cons. Staples	Real Estate	Materials	Health Care	Real Estate	Industrials	S&P 500	8&P 500	Financials	Industrials
17.9%	32.4%	16.0%	4.7%	16.7%	22.1%	-2.2%	29.4%		28.7%	16.3%	16.9%
S&P 500	Info. Tech	Financials	Telecom	Utilities	S&P 500	S&P 500	Real Estate	Health Care	Materials	Industrials	Cons. Disc.
16.0%	28.4%	15.2%	3.4%	16.3%	21.8%	-4.4%	29.0%	10.8%	27.3%	14.2%	16.8%
Industrials	Cons. Staples	S&P 500	S&P 500	Info. Tech	Industrials	Cons. Staples	Cons. Disc.	Industrials	Health Care	Real Estate	Real Estate
15.3%	26.1%	13.7%	1.4%	13.8%	21.0%	-8.4%	27.9%	10.0%	26.1%	13,1%	13.9%
Materials	Materials	Industrials	Financials	S&P 500	Cons. Staples	Telecom	Cons. Staples	Cons. Staples	Cons. Disc.	Materials	S&P 500
15.0%	25.6%	9.8%	-1.5%	12.0%	13.5%	-12.5%	27.6%	9.1%	24.4%	12.8%	13.9%
Info. Tech	Energy	Cons. Disc.	Industrials	Cons. Disc.	Utilitie s	Financials	Utilities	Utilities	Comm. Services	Cons. Staples	Health Care
14.8%	25.1%	9.7%	-2.5%	6.0%	12.1%	-13.0%	26.3%	0.1%	21.6%	12.2%	12.9%
Cons. Staples	Utilities	Materials	Utilities	Cons. Staples	Real Estate	Industrials	Materials	Real Estate	Industrials	Utilities	Utilities
10.8%	13.2%	6.9%	-4.8%	5.4%	10.8%	-13.3%	24.6%	-2.8%	21.1%	11.0%	12.1%
Energy	Telecom	Telecom	Materials	Real Estate	Energy	Materials	Health Care	Financials	Cons. Staples	Energy	Cons. Staples
4.6%	11.5%	3.0%	-8.4%	3.4%	-1.0%	-14.7%	20.8%	-5.0%	18.6%	1.2%	10.9%
Utilities	Real Estate	Energy	Energy	Health Care	Telecom	Energy	Energy	Energy	Utilities	Comm. Servies	Comm. Servies
1.3%	1.6%	-7.8%	-21.1%	-2.7%		-18.1%	11.8%	-33.5%	17.7%	N/A*	N/A*

Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management.
Telecommunications was renamed Communication Services at the end of September 2018. All data are based on Standard & Poor's GICS indexes and represent total return for stated period. Annualized (Ann.) return and volatility (Vol.) represents period of 12/31/11 - 12/31/21. Please see disclosure page at end for index definitions. Past performance is not indicative of future returns. "Communication Services (formerly Telecommunication Services) does not have a 10-yr, annualized return and volatility due to the sector reshuffle in September 2018.

Guide to the Markets – U.S. Data are as of December 31, 2021.

J.P.Morgan ASSET MANAGEMENT

INVESTING PRINCIPLES: ASSET CLASS RETURNS

																2007	- 2021
2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD	Ann.	Vol.
EM Equity	Fixed Income	EM Equity				Sm all Cap			Sm all Cap	EM Equity	Cash	Large Cap	Sm all Cap		Comdty.	Large Cap	
39.8%	5.2%	79.0%	27.9%	8.3%	19.7%	38.8%	28.0%	2.8%	21.3%	37.8%	1.8%	31.5%	20.0%	41.3%	25.5%	10.6%	23.2%
Com dty.	Cash	High Yield	Sm all Cap	Fixe d Income	High Yield	Large Cap	Large Cap	Large Cap	High Yield	DM Equity	Fixed Income	REITs	EM Equity	Large Cap	Cash	Sm all Cap	EM Equity
16.2%	1.8%	59.4%	26.9%	7.8%	19.6%	32.4%	13.7%	1.4%	14.3%	25.6%	0.0%	28.7%		28.7%	0.0%	8.7%	22.9%
DM Equity	Asset Allec.	DM Equity	EM Equity	High Yield	EM Equity	DM Equity	Fixe d Incom e	Fixed Income	Large Cap	Large Cap	REITs	Sm all Cap	Large Cap	Comdty.	Asset Alloc.	REITs	Small Cap
11.6%	25.4%	32.5%	19.2%	3.1%	18.6%	23.3%	6.0%	0.5%	12.0%	21.8%	-4.0%	25.5%	18.4%	27.1%	-3.9%	7.5%	22.5%
Asset Allec.	High Yield		Com dty.	Large Cap	DM Equity	Asset Allec.	Asset	Cash	Comdty.	Sm all Cap	High Yield	DM Equity	Asset	Sm all Cap	Large Cap	High Yield	Comdty.
7.1%	-26.9%	28.0%	16.8%	2.1%	17.9%	14/.9%	5.2%	0.0%	11.8%	14.6%	-4.1%	22.7%	10.6%	14.8%	-4.6%	6.6%	19.1%
Fixed Income 7.0%	Small Cap -33.8%	Small Cap 27.2%	Large Cap 15.1%	Cash 0.1%	Small Cap 16.3%	High Yield 7.3%	Small \ Cap 4.9%	DM Equity -0.4%	EM Equity 11.6%	Asset Allec.	Large Cap -4.4%	Asset Allec. 19.5%	DM Equity 8.3%	Asset Albc. 13.5%	R⊟Ts -5.3%	Asset Alloc. 5.7%	DM Equity 18.9%
	-33.0 /6	1				1.3%	4.5 /6		11.076	7		EM		DM		/	
Large Cap	Comdty.	Large Cap	High Yield	Asset Allec.	Large Cap		Cash	Asset Allac.		High Yield	Asset Allec.	Equity	Fixed Income	Equity	High Yield	EM Equity	Large Cap
5.5%	-35.6%	26.5%	14.8%	-0.7%	16.0%	2.9%	0.0%	-2.0%	8.6% /	10.4%	-5.8%	18.9%	7.5%	11.8%	-5.7%	4.8%	16.9%
0	Large	Asset	Asset	Small	Asset	Orah	High	High	Asset	DET.	Small	High	High	High	DM	DM	High
Cash	Сар	Allec.	Alle c.	Сар	Allec.	Cash	Yield	Yie ld	Allec.		Сар	Yield	Yie ld	Yield	Equity	Equity	Yield
4.8%	-37.0%	25.0%	13.3%	-4.2%	12.2%	0.0%	0.0%	-2.7%	8.3%		-11.0%	12.6%	7.0%	1.0%	-5.8%	4.1%	12.2%
High		Comdtv.	DM	DM	Fixed	Fixed	EM	Small	Fixed	Fixed	Comdty.	Fixed	Cash	Cash	Fixed	Fixed	Asset
Yield			Equity	Equity	Income	Income	Equity	Сар	Income	Income		Income			Income	Income	Alloc.
3.2%	-37.7%	18.9%	8.2%	-11.7%	4.2%	-2.0%	-1.8%	-4.4%	2.6%	3.5%	-11.2%	8.7%	0.5%	0.0%	-5.9%	4.1%	11.7%
Sm all Cap	DM Equity	Fixed Income	Fixed Income	Comdty.	Cash	EM Equity	DM Equity	EM Equity	DM Equity	Com dty.	DM Equity	Com dty.	Com dty.	Fixed Income	EM Equity	Cash	Fixed Income
-1.6%	-43.1%	5.9%	6.5%	-13.3%	0.1%	-2.3%	-4.5%	-14.6%	1.5%	1.7%	-13.4%	7.7%	-3.1%	-1.5%	-6.9%	0.8%	3.3%
	EM			EM							EM			EM	Small		
	Equity	Cash	Cash	Equity	Comdty.	Com dty.	Comdty.	Comdty.	Cash	Cash	Equity	Cash		Equity	Cap	Com dty.	Cash
-15.7%	-53.2%	0.1%	0.1%	-18.2%	-1.1%	-9.5%	-17.0%	-24.7%	0.3%	0.8%	-14.2%	2.2%	-5.1%	-2.2%	-7.5%	-2.6%	0.7%

Source: Bloomberg, FactSet, MSCI, NAREIT, Russell, Standard & Poor's, J.P. Morgan Asset Management. Large cap: S&P 500, Small cap: Russell 2000, EM Equity: MSCI EME, DM Equity: MSCI EAFE, Comdty: Bloomberg Commodity Index, High Yield: Bloomberg Global HY Index, Fixed Income: Bloomberg US Aggregate, REITs: NAREIT Equity REIT Index, Cash: Bloomberg I-3m Treasury. The "Asset Allocation" portfolio assumes the following weights: 25% in the S&P 500, 10% in the Russell 2000, 15% in the MSCI EAFE, 5% in the Bloomberg US Aggregate, 5% in the Bloomberg I-3m Treasury, 5% in the Bloomberg Global High Yield Index, 5% in the Bloomberg Commodity Index and 5% in the NAREIT Equity REIT Index. Balanced portfolio assumes annual rebalancing. Annualized (Ann.) return and volatility (Vol.) represents period from 12/31/2006 to 12/31/2021. Please see disclosure page at end for index definitions. All data represents total return for stated period. The "Asset Allocation" portfolio is for illustrative purposes only. Past performance is not indicative of future returns.

Guide to the Markets – U.S. Data are as of March 31, 2022.

EQUITY INVESTING 101: WHAT MAKES A GREAT BUSINESS?





Economic Moats

Size

- Cost Advantages
- Distribution Networks
- Location, Location
- The Industry Matters
 - Some industries are structurally advantaged
- Intangible Assets
 - Brands
 - **Patents**
 - Regulatory
- **Switching Costs**
 - Make it tough for customers to use a competitor's product
- Network Effects
 - The value of a product or service increases with the number of users

QUESTIONS?



RESERVED SLIDES

SAVING



Annual savings needed if starting today

Household income ≤\$90k GTR

	Current household income													
	\$30,000	\$40,000	\$50,000	\$60,000	\$70,000	\$80,000	\$90,000							
Current age		S	avings rate (x	current hous	sehold incom	e)								
25	3%	5%	5%	6%	7%	8%	8%							
30	4%	6%	7%	8%	9%	10%	10%							
35	5%	8%	9%	10%	12%	13%	14%							
40	6%	10%	12%	14%	16%	17%	18%							
45	9%	14%	17%	19%	22%	23%	25%							
50	13%	21%	25%	28%	33%	35%	38%							

Values assume you would like to maintain an equivalent lifestyle in retirement. Household income is assumed to be gross income (before taxes and savings).

- Go to the intersection of your current age and your closest current household income.
- * This is the percentage of your current household income to contribute annually going forward if you have \$0 saved for retirement today.
- Example: A 40-year-old with household income of \$50,000 and \$0 saved for retirement today may need to save 12% every year until retirement.

This chart is for illustrative purposes only and must not be relied upon to make investment decisions. J.P. Morgan Asset Management's (JPMAM) model is based on a blend of proprietary Long-Term Capital Market Assumptions (first 10 years) and equilibrium returns, and a 80% condificance level. Portfolio are described as equilifybrond percentages (e.g., a 40/60 portfolio 16 of 05% condison 40% bonds). Assumptions include household income replacement rates shown on slide 15. Consult with a financial professional for a more personalized assessament. Allocations, assumptions and expected returns are not meant to represent JPMAM performance, Given tecomplex risk/reward trade-offs involved, we advise clients to rely on judgment as well as quantitative optimization approaches in setting strategic allocations. References to future returns for either asset allocation strategies or asset classes are not promises or even estimates of actual returns a client portfolio may achieve.

J.P.Morgan

ASSET MANAGEMENT

Model assumptions

Pre-retirement portfolio: 60/40 diversified portfolio

Post-retirement portfolio: 40/60 diversified portfolio

Inflation rate: 2.3%

Retirement age:

Primary earner: 65

Spouse: 63

Years in retirement: 35

SAVING



Retirement savings checkpoints

Household income ≤\$90k Annual savings rate: 5%

GTR 13

\$90,000 Model assumptions
Annual gross savings rate:
5%

Pre-retirement portfolio: 60/40 diversified portfolio Post-retirement portfolio: 40/60 diversified portfolio

Inflation rate: 2.3%

Retirement age:

- Primary earner: 65
- Spouse: 63

Years in retirement: 35

\$30,000 \$40,000 \$50,000 \$60,000 \$70,000 \$80,000 \$90,000 Current Checkpoint (x current household income) 25 0.1 0.3 0.5 0.6 8.0 See "Annual 0.1 savings needed" 30 0.2 0.5 0.7 1.0 1.1 1.3 35 on slide 16* 1.9 0.6 0.9 1.1 1.5 1.7 40 0.3 1.1 1.4 1.7 2.2 2.4 3.5 4.5 50 1.1 2.3 2.8 3.2 3.9 4.1 4.1 5.2 5.6 55 1.7 3.0 3.6 4.8

Current household income

4.9

5.5

5.8

6.5

6.1

6.9

6.7

7.5

This analysis assumes you would like to maintain an equivalent lifestyle in retirement. Household income is assumed to be gross income (before taxes and savings).

3.7

4.1

How to use

65

2.2

2.5

Go to the intersection of your current age and your closest current household income.

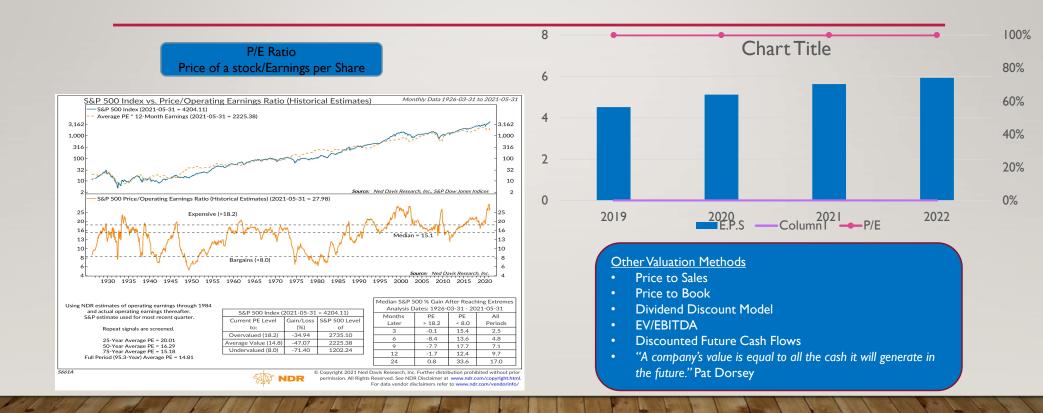
4.9

- Multiply your current household income by the checkpoint shown. This is the amount you should have saved today, assuming you continue contributions of 5% going forward.
- Example: For a 40-year-old with a household income of \$50,000: \$50,000 x 1.4 = \$70,000

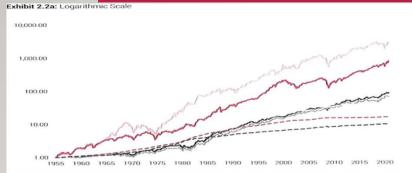
*Households age 25-35 earning \$30k may need to save less than the 5% annual savings rate assumed in this analysis. If they were to save 5% annually going forward they would not need to have current assets to be on track. They should refer to the annual savings rate they need to be saving today found on slide 16. This chart is for illustrative purposes only and must not be relied upon to make investment decisions. J.P. Morgan Asset Management's (JPMAM) model is based on proprietary Long-Term Capital Market Assumptions (first 'Oyears) and equilibrium returns, and an 80% confidence level. Portfolios are described as equity/bond percentages (e.g., a 40/60 portfolio is 40% equities and 50% bonds). Assumptions include household income replacement rates shown on slide 15. Consult with affinancial professional for a more personalized assessment. Allocations, assumptions and expected returns are not meant to represent JPMAM performance. Given the complex risk/reward trade-offs involved, we advise clients to rely on judgment as well as quantitative optimization approaches in setting strategic allocations. References to future returns for either asset allocation strategies or asset classes are not promises or even estimates of actual returns a client portfolio may achieve.

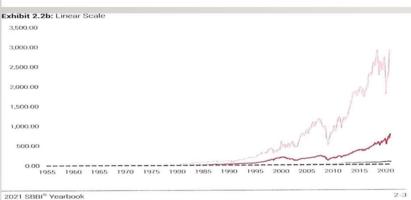
J.P.Morgan

EQUITY INVESTING 101: HOW DO YOU VALUE A STOCK?



EQUITY INVESTING 101: HISTORICAL RETURNS – STOCKS, BONDS, BILLS AND INFLATION ®





Asset Class	Average Return	Standard Deviation
Large-Cap Stocks	10.3%	19.7%
Small-Cap Stocks	11.9%	31.3%
Long-term Corp Bonds	6.2%	8.5%
Long-term Gov't Bonds	5.7%	9.8%
Inter-term Gov't Bonds	5.1%	5.6%
U.S. Treasury Bills	3.3%	3.1%
Inflation	2.9%	4.0%

The New Normal. In 2009 Bill Gross suggested that investors would need to question many long-held beliefs as they adjust to this new normal. Among them is the idea that risky assets such as stocks are always better for the long run. In the subdued economic climate ahead, risk-taking is simply not going to be as rewarding, so investors may want to switch down to a more sedate asset allocation mix with more bonds and stable blue chip stocks.

EQUITIES: FACTOR PERFORMANCE

																2007	
2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD	Ann.	Vol.
Momen.	Min. Vol.	Value	Small Cap	High Div.	Cyclical	Value	Value	Momen.	Small Cap		Min. Vol.	Cyclical	Momen.	Value	Defens.	Momen.	Small Cap
17.8%	-25.7%	38.8%	26.9%	14.3%	20.1%	43.2%	17.7%	9.3%	21.3%		1.5%	36.3%	29.6%	29.2%	2.6%	11.8%	22.5%
Defens.	Defens.	Cyclical	Multi- Factor	Min. Vol.	Value	Sm all Cap	Min. Vol.	Min. Vol.	High Div.	Cyclical		Quality	Cyclical	Cyclical	High Div.	Quality	Value
17.7%	-26.7%	36.9%	18.3%	12.9%	16.8%	38.8%	16.5%	5.6%	16.3%	27.3%	-1.6%	34.4%	27.8%	27.6%	-1.5%	11.5%	20.7%
Quality	High Div.	Multi- Factor	Momen.	Defens.	Small Cap	Multi- Factor	High Div.	Quality	Value	Quality	High Div.		Sm all Cap	Quality	Min. Vol.	Cyclical	Cyclical
10.1%	-27.6%	29.8%	18.2%	10.1%	16.3%	37.4%	14.9%	4.6%	15.9%	22.5%	-2.3%	28.1%	20.0%	27.2%	-3.8%	11.2%	19.9%
Multi- Factor	Quality	Small Cap	Cyclical	Quality	Multi- Factor	Cyclical	Multi- Factor	Cyclical	Cyclical	Value	Defens.	Min. Vol.	Quality	Multi- Factor	Value	Min. Vol.	Momen.
5.5%	-31.2%	27.2%	17.9%	7.5%	15.7%	35.0%	14.8%	2.6%	14.0%	22.2%	-2.9%	28.0%	17.1%		-3.8%	10.5%	17.7%
Min. Vol.	Small Cap	Quality	High Div.	Multi- Factor		Momen.	Momen.	High Div.	Multi- Factor	Multi- Factor	Cyclical	Value	Multi- Factor	Defens.	Multi- Factor	Multi- Factor	Multi- Factor
4.3%	-33.8%	24.9%	15.9%	7.3%	15.1%	34.8%		0.7%	13.7%	21.5%	-5.3%	27.7%	11.4%	25.0%	-4.1%	10.1%	17.7%
Value	Value	High Div.	Min. Vol.	Momen.	Quality	Quality	Cyclical	Multi- Factor	Min. Vol.	High Div.	Quality	Multi- Factor	Min. Vol.	High Div.		High Div.	Quality
1.1%	-36.9%	18.4%	14.7%	6.1%	12.8%	34.3%	13.6%	0.4%	10.7%	19.5%	-5.6%	26.6%	5.8%	21.9%	-7.3%	9.4%	15.7%
High Div.	Multi- Factor	Min. Vol.	Quality	Value	Min. Vol.	High Div.	Defens.	Defens.	Quality	Min. Vol.	Multi- Factor	Sm all Cap	Defens.	Min. Vol.	Quality	Defens.	High Div.
0.0%	-39.3%	18.4%	14.2%	-2.7%	11.2%	28.9%	13.0%	-0.9%	9.4%	19.2%	-9.7%	25.5%	5.2%	21.0%	-7.4%	9.1%	15.1%
Cyclical			Value	Cyclical	Defens.	Defens.	Quality	Sm all Cap	Defens.	Sm all Cap	Small Cap	High Div.	High Div.	Sm all Cap	Small Cap	Value	Defens.
-0.8%	-40.9%	17.6%	12.7%	-3.4%	10.7%	28.9%	10.7%	-4.4%	7.7%	14.6%	-11.0%	22.5%	1.7%	14.8%	-7.5%	9.1%	13.9%
Small Cap	Cyclical	Defens.	Defens.	Small Cap	High Div.	Min. Vol.	Small Cap	Value		Defens.	Value	Defens.	Value		Cyclical	Small Cap	Min. Vol.
-1.6%	-44.8%	16.5%	12.0%	-4.2%	10.6%	25.3%	4.9%	-6.4%	5.1%	12.3%	-11.1%	21.4%	-0.2%	12.9%	-7.7%	8.7%	13.2%

Source: FactSet, MSCI, Russell, Standard & Poor's, J.P. Morgan Asset Management. The MSCI High Dividend Yield Index aims to offer a higher than average dividend yield relative to the parent index that passes dividend sustainability and persistence screens. The MSCI Minimum Volatility Index optimizes the MSCI USA Index using an estimated security co-variance matrix to produce low absolute volatility for a given set of constraints. The MSCI Defensive Sectors Index includes: Consumer Discretionary, Communication Services, Financials, Industrials, Information Technology and Materials. Securities in the MSCI Momentum Index are selected based on a momentum value of 12-month and 6-month price performance. Constituents of the MSCI Sector Neutral Quality Index are selected based on stronger quality characteristics to their peers within the same GICS sector by using three main variables: high return-on-equity, low leverage and low earnings variability. Constituents of the MSCI Enhanced Value Index are based on three variables: price-to-book value, price-to-forward earnings and enterprise value-to-cash flow from operations. The Russell 2000 is used for small cap. The MSCI USA Diversified Multiple Factor Index aims to maximize exposure to four factors – Value, Momentum, Quality and Size. Annualized volatility is calculated as the standard deviation of quarterly returns multiplied by the square root of 4. *Guide to the Markets* – U.S. Data are as of March 31, 2022.

RETIREMENT LANDSCAPE

