

Market Returns Through a Century of Recessions

What does a century of economic cycles teach investors about investing? Our interactive exhibit examines how stocks have behaved during US economic downturns. Markets around the world have often rewarded investors even when economic activity has slowed. This is an important lesson on the forward-looking nature of markets, highlighting how current market prices reflect market participants' collective expectations for the future.





Shaded periods below represent recessions.
Click each to learn more.



GROWTH OF \$100
1926-2019

\$1,000,000

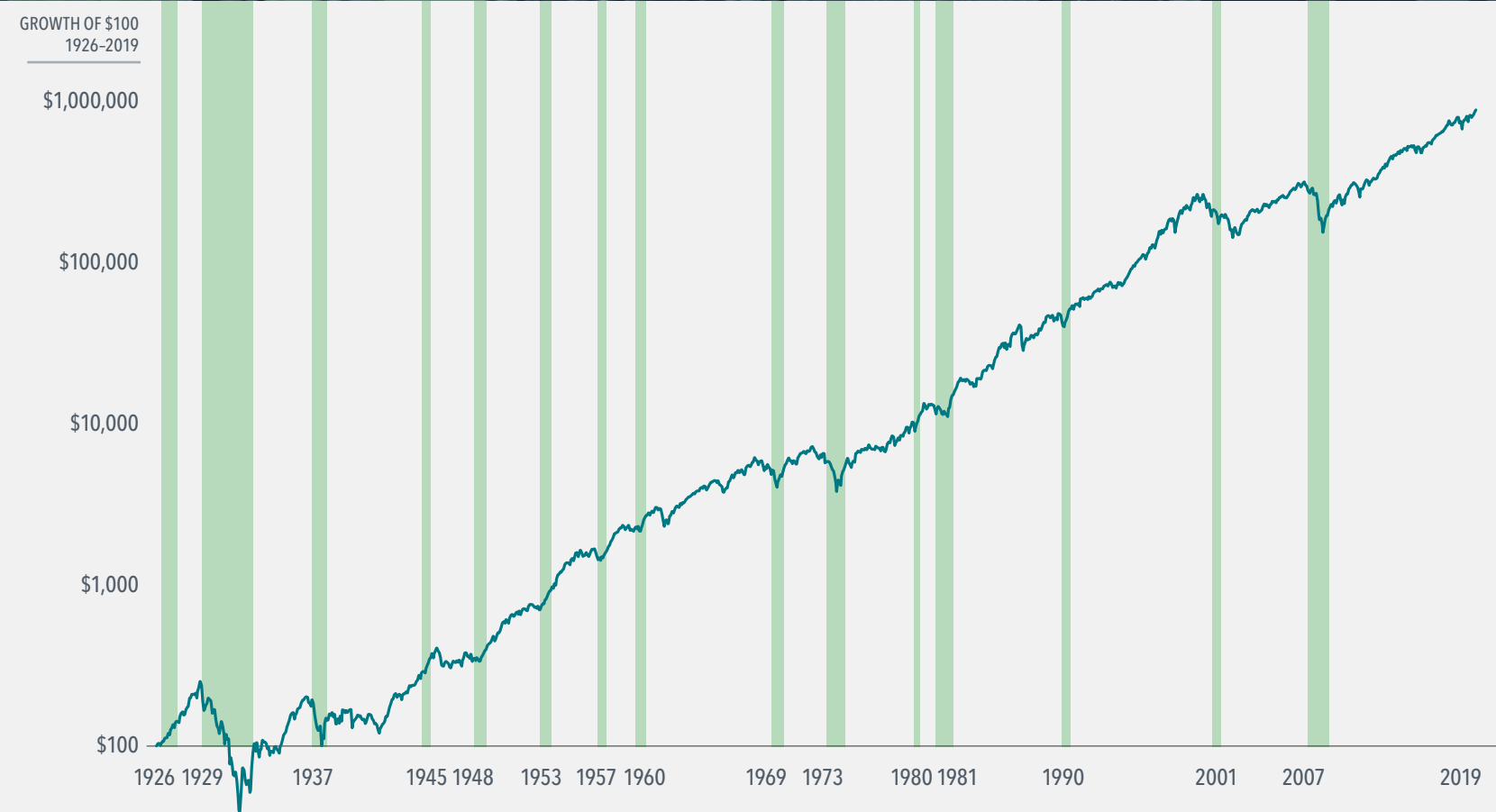
\$100,000

\$10,000

\$1,000

\$100

1926 1929 1937 1945 1948 1953 1957 1960 1969 1973 1980 1981 1990 2001 2007 2019



1926–1927



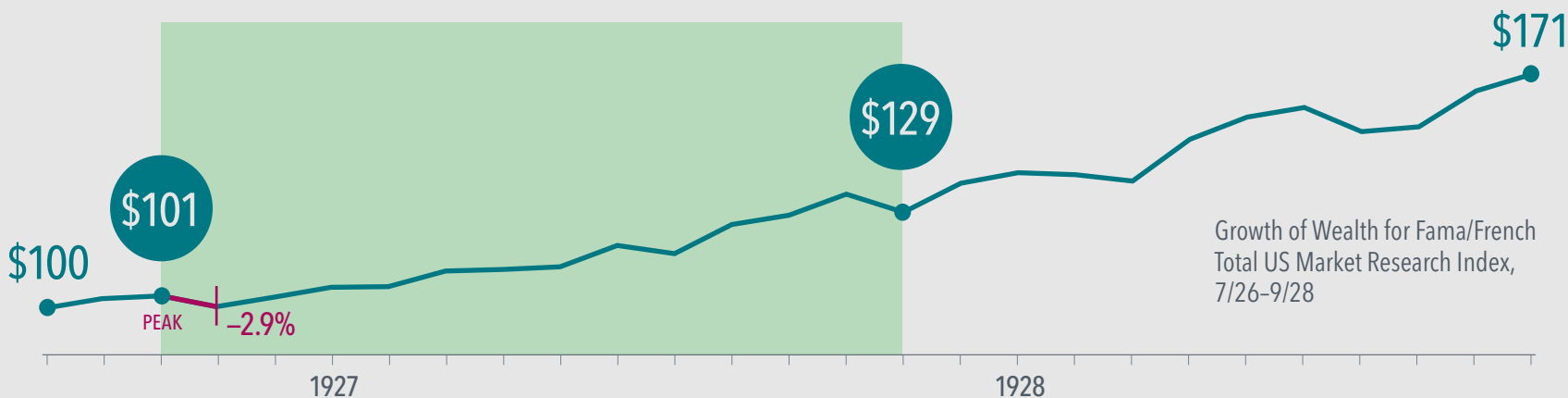
A few years before the Depression, the US experienced a mild, yearlong recession accompanied by a minor bout of deflation. The stock market slipped 2.9% in the first month of the downturn.

RECESSION

Duration (Months)	Industrial Production	Inflation
13	-6.0%	-1.1%

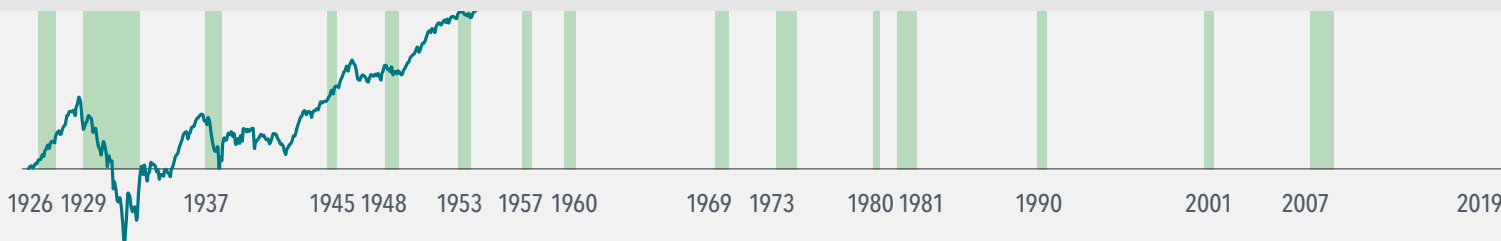
MARKET DOWNTURN

Duration (Months)	Return from Peak
1	-2.9%



Growth of Wealth for Fama/French Total US Market Research Index, 7/26–9/28

Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



Great Depression



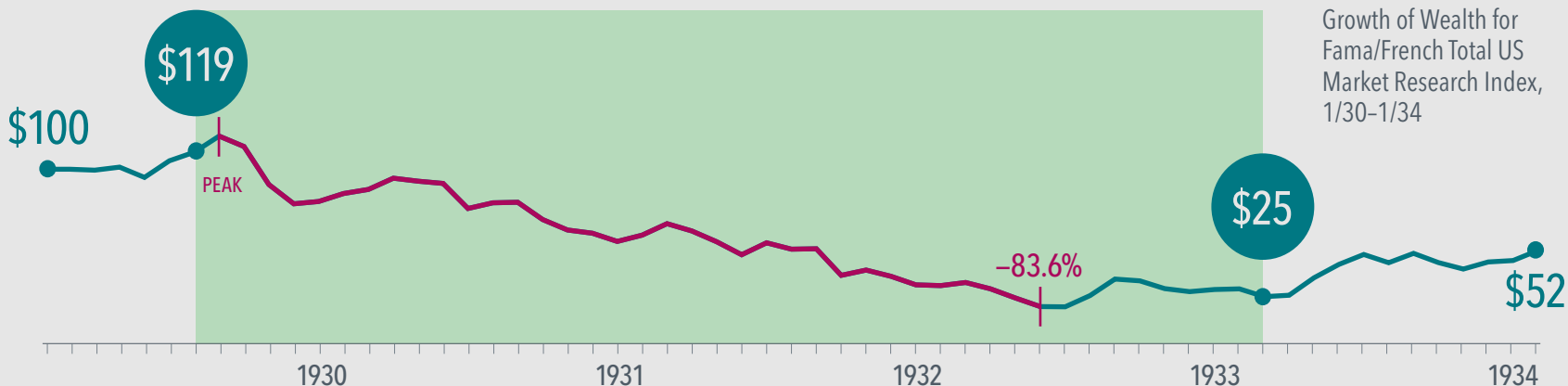
The Depression decimated the US economy—unemployment climbed to 25.2%, and industrial production plunged 48.6%. Before the collapse ended, stocks collectively lost 83.6% in a 33-month market downturn.

RECESSION

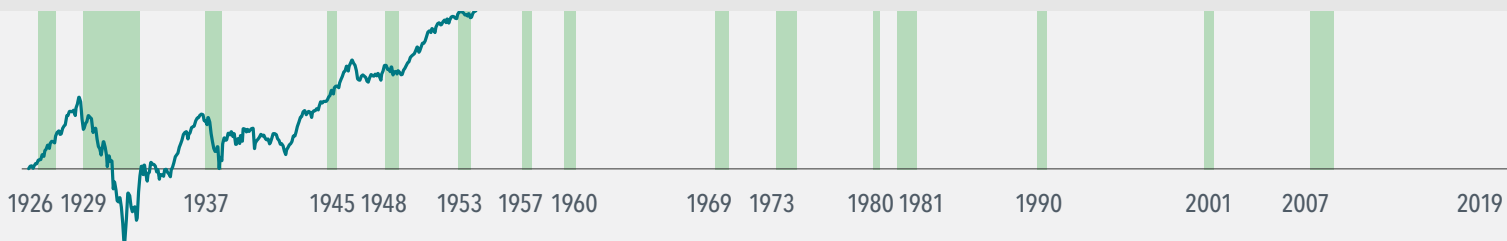
Duration (Months)	Industrial Production	Inflation	Max Unemployment
43	-48.6%	-26.6%	25.2%

MARKET DOWNTURN

Duration (Months)	Return from Peak
33	-83.6%



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



1937–1938



A sharp, 13-month recession—marked by high unemployment and a big dip in industrial production—occurred in the midst of the nation’s recovery from the Depression. Stock market investors suffered a 49.2% loss.

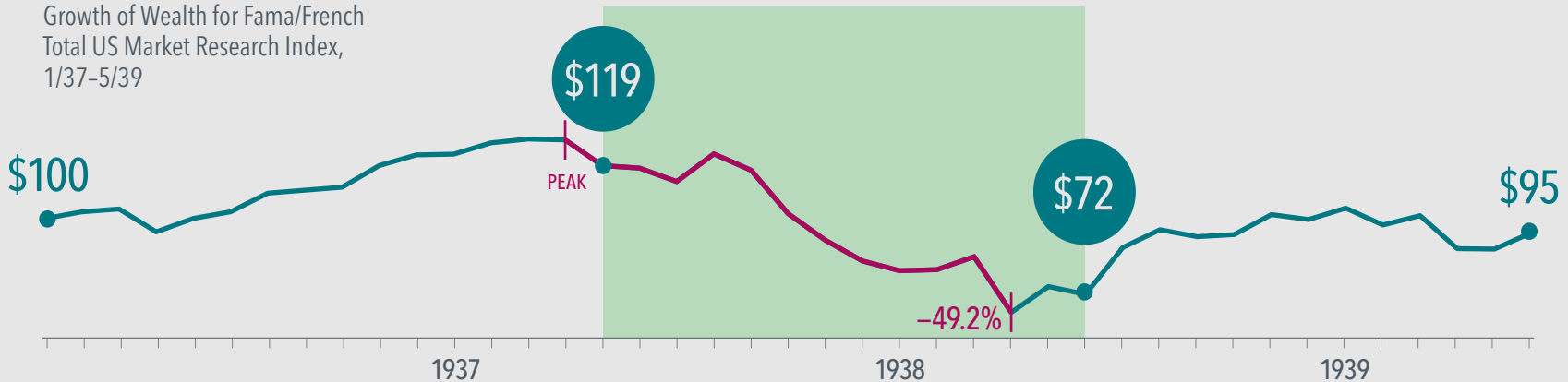
RECESSION

Duration (Months)	Industrial Production	Inflation	Max Unemployment
13	-32.5%	-2.1%	19.7%

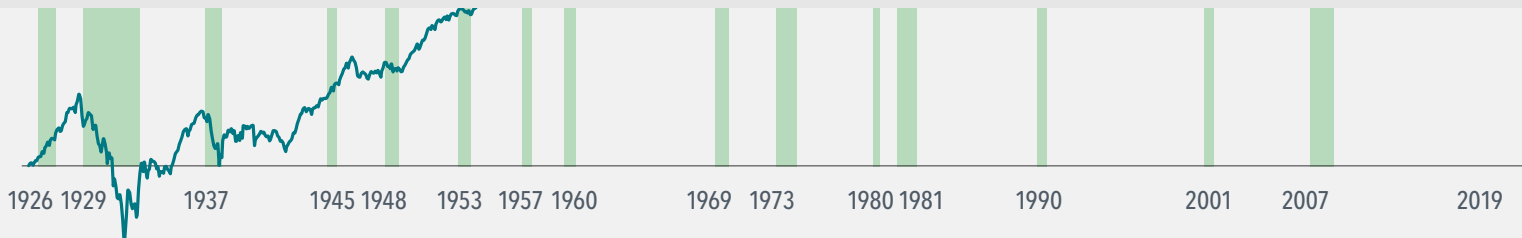
MARKET DOWNTURN

Duration (Months)	Return from Peak
12	-49.2%

Growth of Wealth for Fama/French
Total US Market Research Index,
1/37-5/39



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



World War II Recession



Industrial production plunged 26% during the eight-month recession near the end of World War II. But the stock market dipped only 3.9% early in the recession before rebounding.

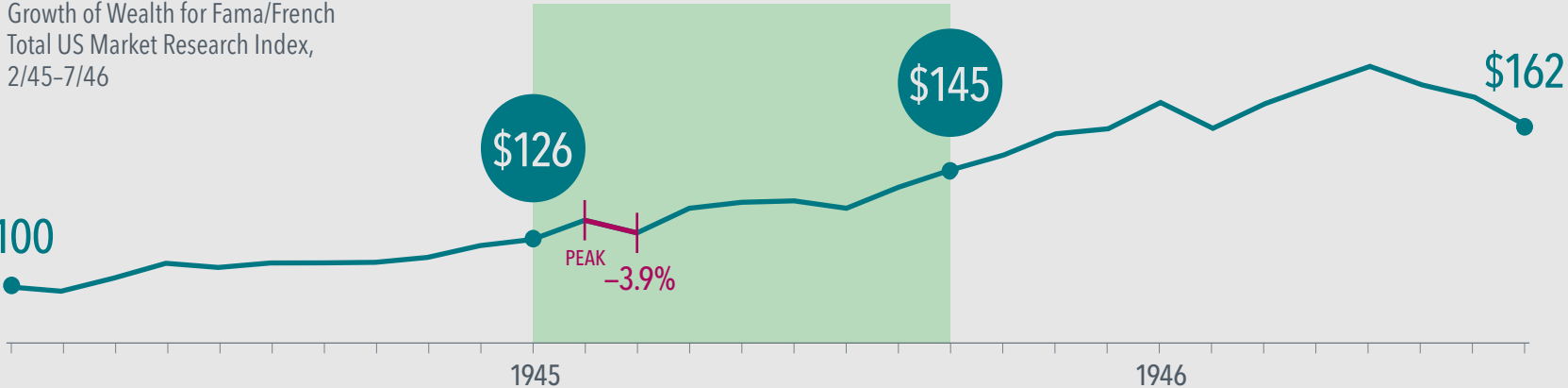
RECESSION

Duration (Months)	Industrial Production	Inflation	Max Unemployment
8	-26.0%	1.7%	3.4%

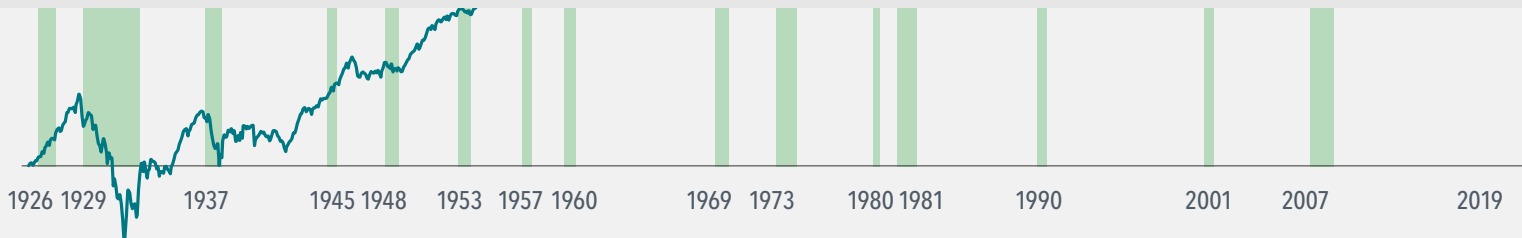
MARKET DOWNTURN

Duration (Months)	Return from Peak
1	-3.9%

Growth of Wealth for Fama/French
Total US Market Research Index,
2/45-7/46



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



1948–1949



A modest stock market slide (–11.0%) began five months before this relatively small economic downturn that occurred a few years after the war.

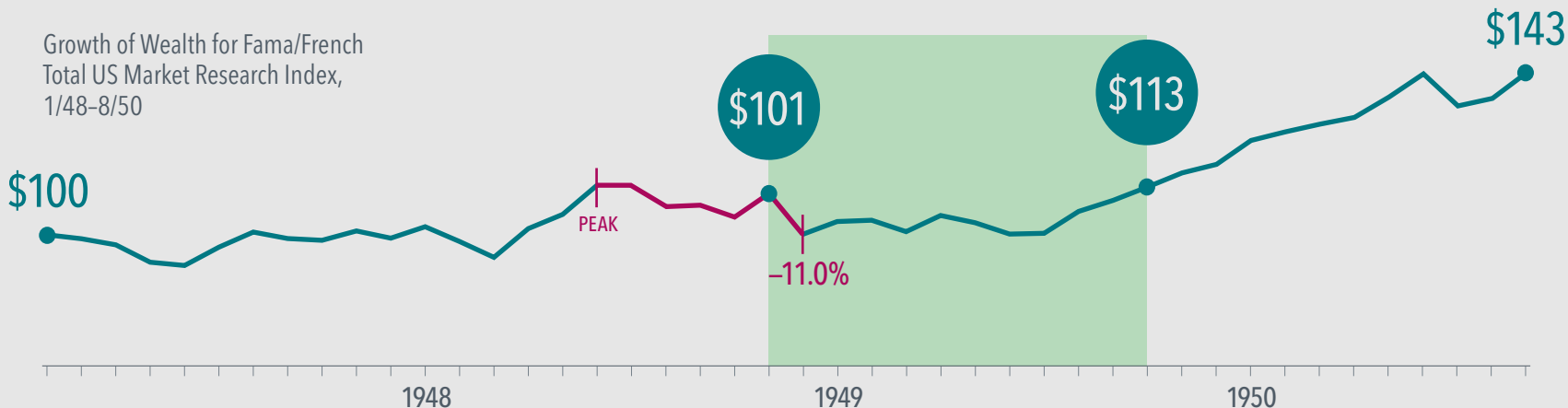
RECESSION

Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP
11	–5.0%	–1.2%	6.8%	–1.5%

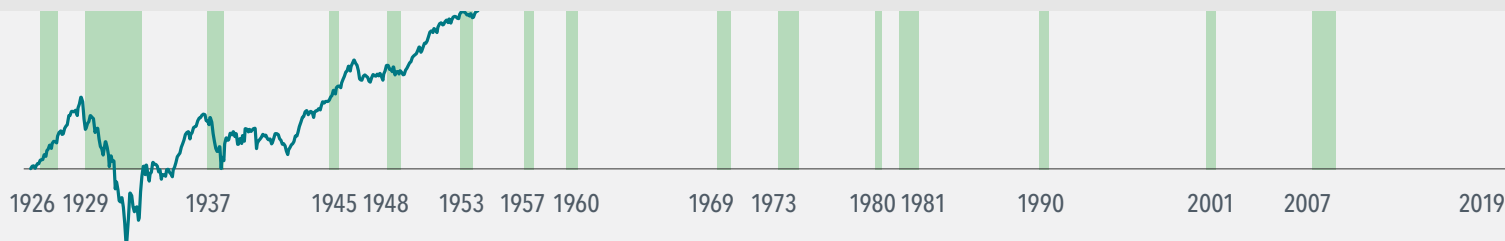
MARKET DOWNTURN

Duration (Months)	Return from Peak
6	–11.0%

Growth of Wealth for Fama/French
Total US Market Research Index,
1/48–8/50



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1953–1954



The Korean Armistice was signed in the summer of 1953. A stock market slump that had begun in March was over by August, but the recession continued until early 1954.

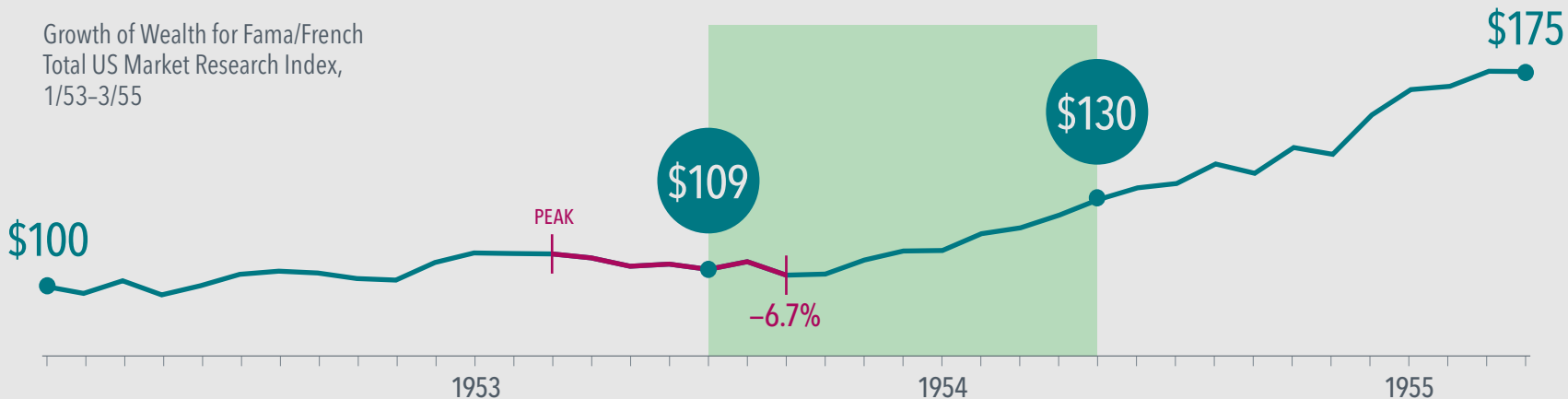
RECESSION

Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP
10	-9.5%	0.0%	5.9%	-2.4%

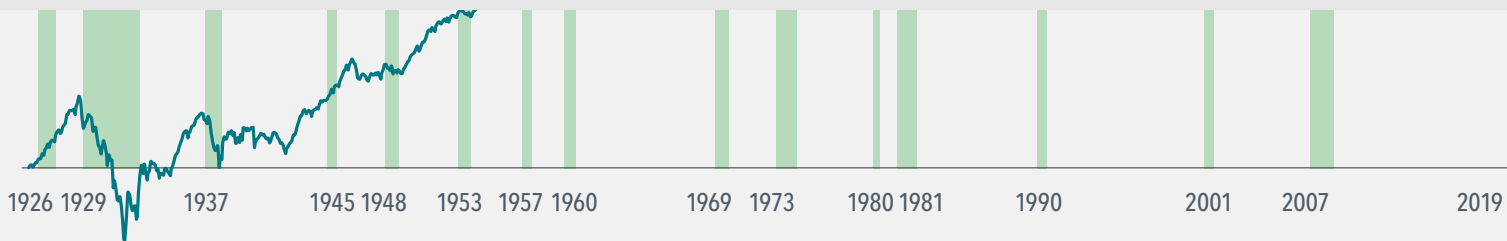
MARKET DOWNTURN

Duration (Months)	Return from Peak
6	-6.7%

Growth of Wealth for Fama/French
Total US Market Research Index,
1/53–3/55



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



1957-1958



A huge drop in industrial production (-11.3%) and a contraction in GDP (-3%) interrupted the 1950s boom. Stocks retrenched 14.9% in the midst of a decade-long climb.

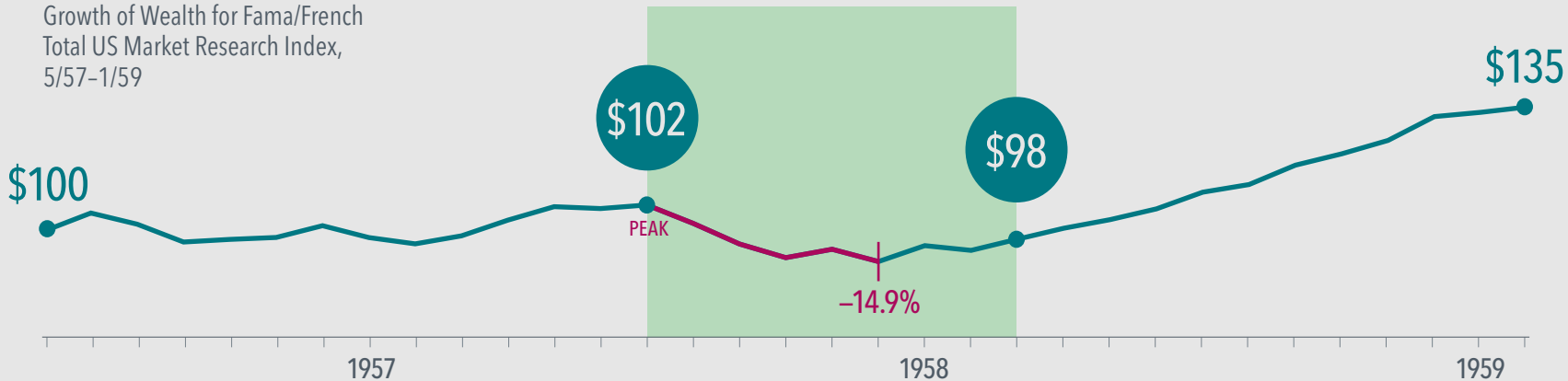
RECESSION

Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP
8	-11.3%	1.8%	6.7%	-3.0%

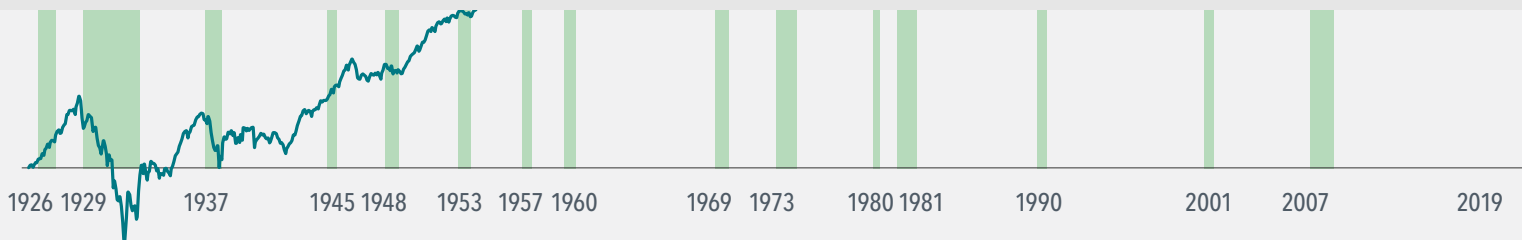
MARKET DOWNTURN

Duration (Months)	Return from Peak
5	-14.9%

Growth of Wealth for Fama/French
Total US Market Research Index,
5/57-1/59



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



1960–1961



This four-month pause followed the previous decade's bull market. In the election year of 1960, unemployment rose to 6.6%, and the stock market dropped 7.9%.

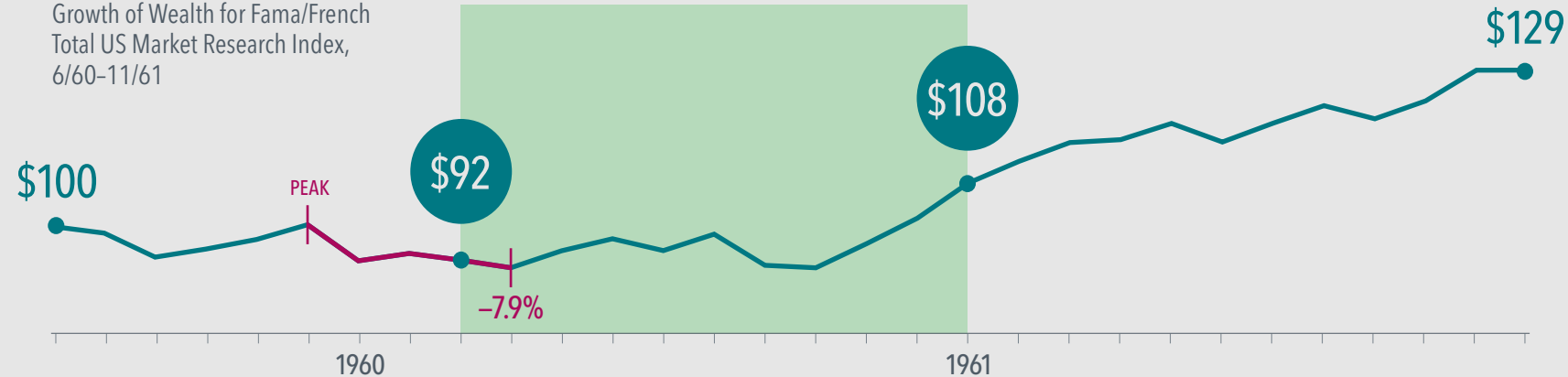
RECESSION

Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP
10	-6.1%	1.0%	6.6%	0.1%

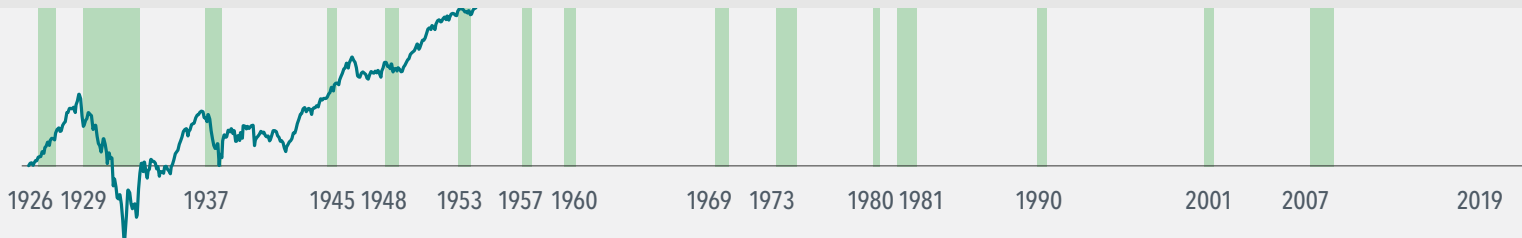
MARKET DOWNTURN

Duration (Months)	Return from Peak
4	-7.9%

Growth of Wealth for Fama/French
Total US Market Research Index,
6/60–11/61



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



1969–1970



High inflation and a big jump in unemployment punctuated the 11-month recession that began in December 1969. A volatile stock market eventually lost 33.6% over 19 months.

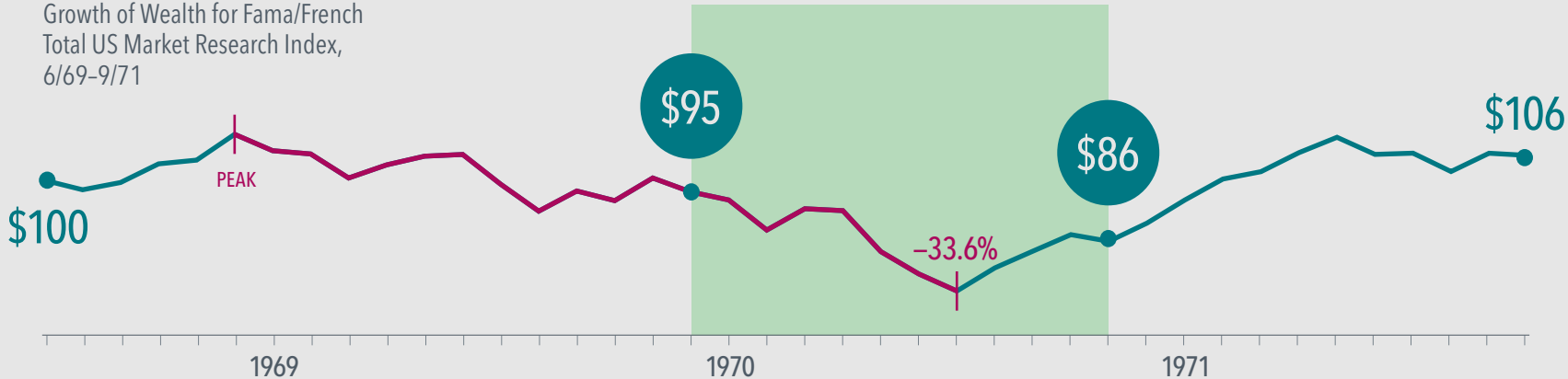
RECESSION

Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP
11	-5.3%	4.5%	5.5%	-0.2%

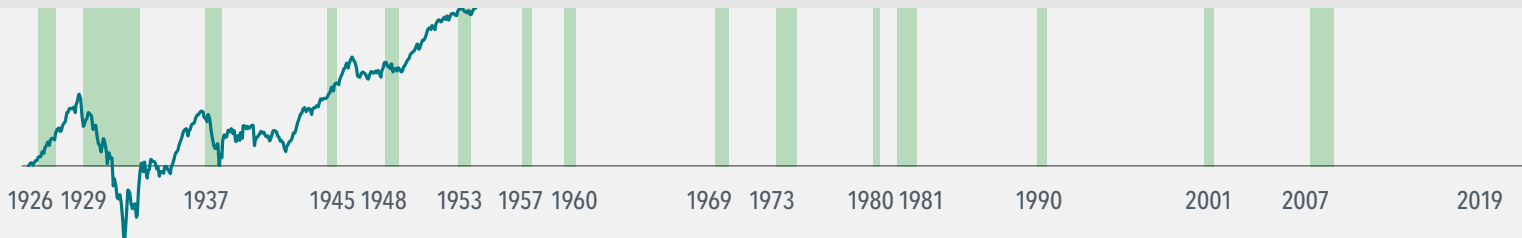
MARKET DOWNTURN

Duration (Months)	Return from Peak
19	-33.6%

Growth of Wealth for Fama/French
Total US Market Research Index,
6/69-9/71



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



Oil Crisis



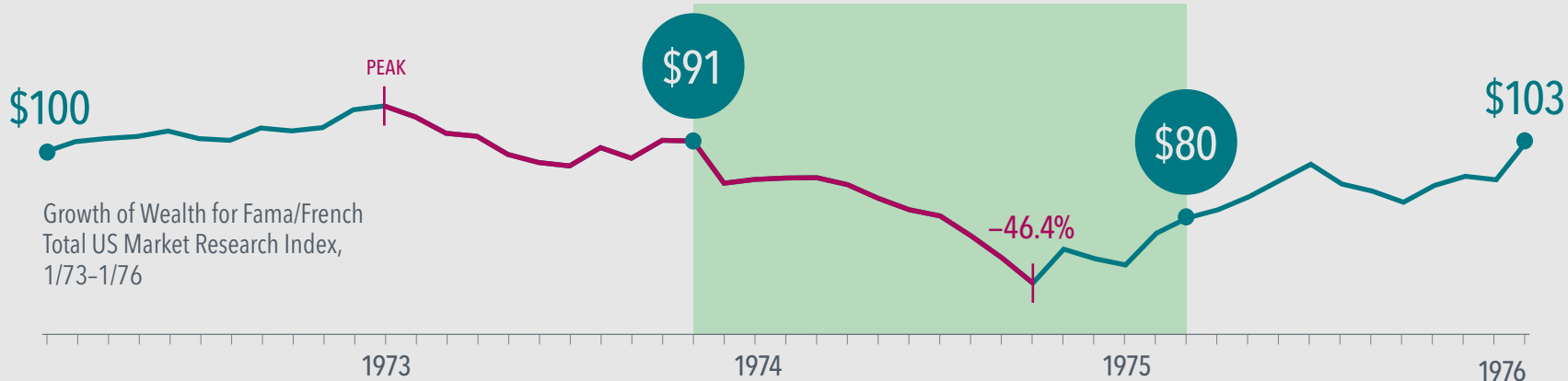
Inflation hit double digits during the 1973–75 recession.
The stock market lost nearly half its value in the first 11 months of the 16-month economic downturn.

RECESSION

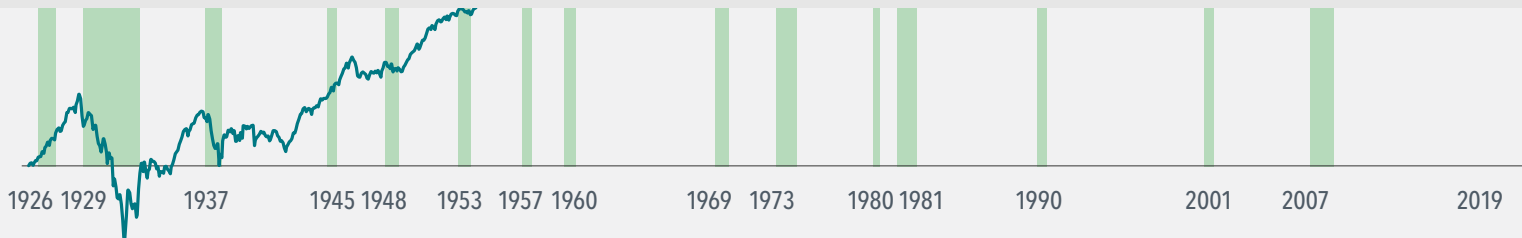
Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP
16	-12.0%	14.4%	8.1%	-3.1%

MARKET DOWNTURN

Duration (Months)	Return from Peak
21	-46.4%



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



1980



A 12% stock market decline occurred early in 1980's six-month recession, during which unemployment hit 7.6%. But the market finished the year with an impressive gain of 33.4%.

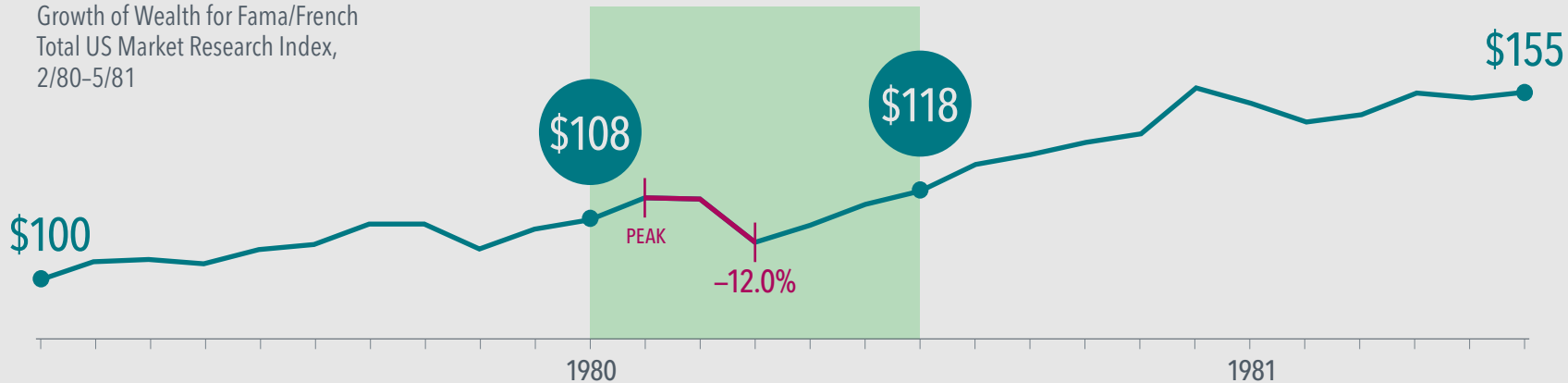
RECESSION

Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP
6	-5.9%	6.3%	7.6%	-2.2%

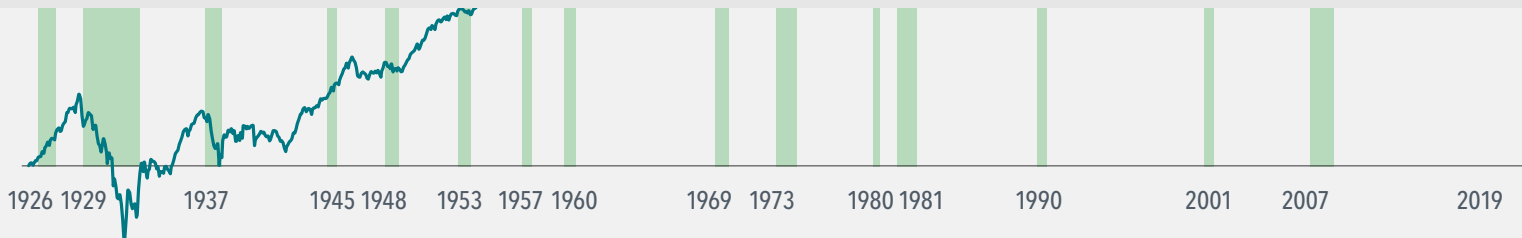
MARKET DOWNTURN

Duration (Months)	Return from Peak
2	-12.0%

Growth of Wealth for Fama/French
Total US Market Research Index,
2/80-5/81



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



1981-1982



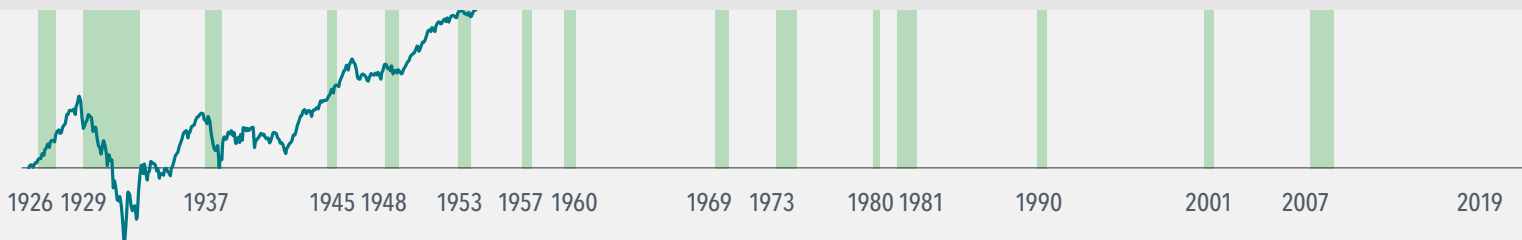
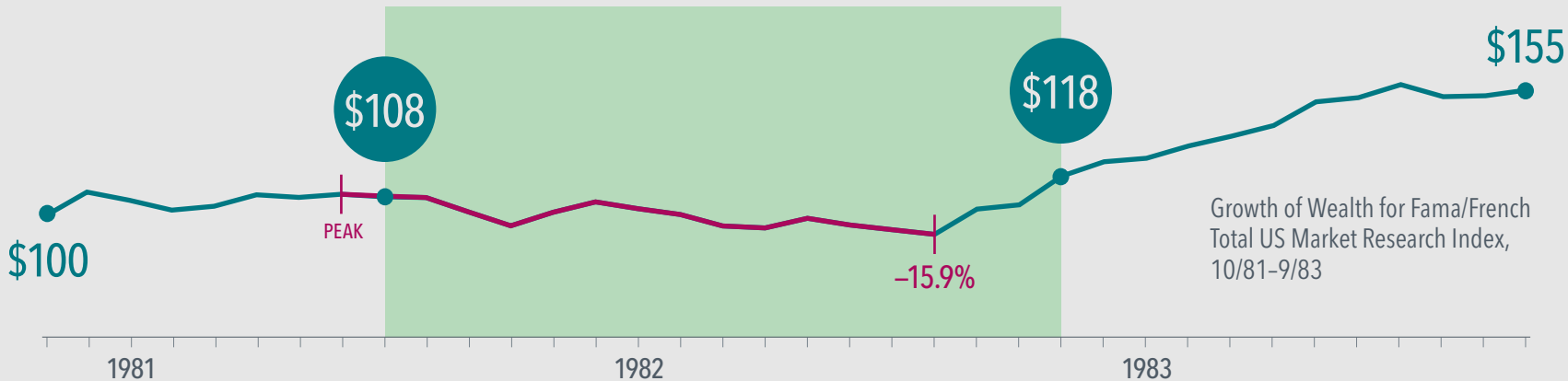
Historically high interest rates preceded a harsh recession that dragged on for 16 months and saw unemployment peak at 10.4%. The stock market experienced a 15.9% slide before beginning a long rally.

RECESSION

Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP
16	-8.3%	7.2%	10.4%	-2.5%

MARKET DOWNTURN

Duration (Months)	Return from Peak
14	-15.9%



Gulf War



Stocks reacted negatively to the onset of the Gulf War in August 1990, dropping 17% over five months as the price of oil doubled. When the market regained its footing, stocks were set to start a nine-year bull market that peaked in the dot-com era.

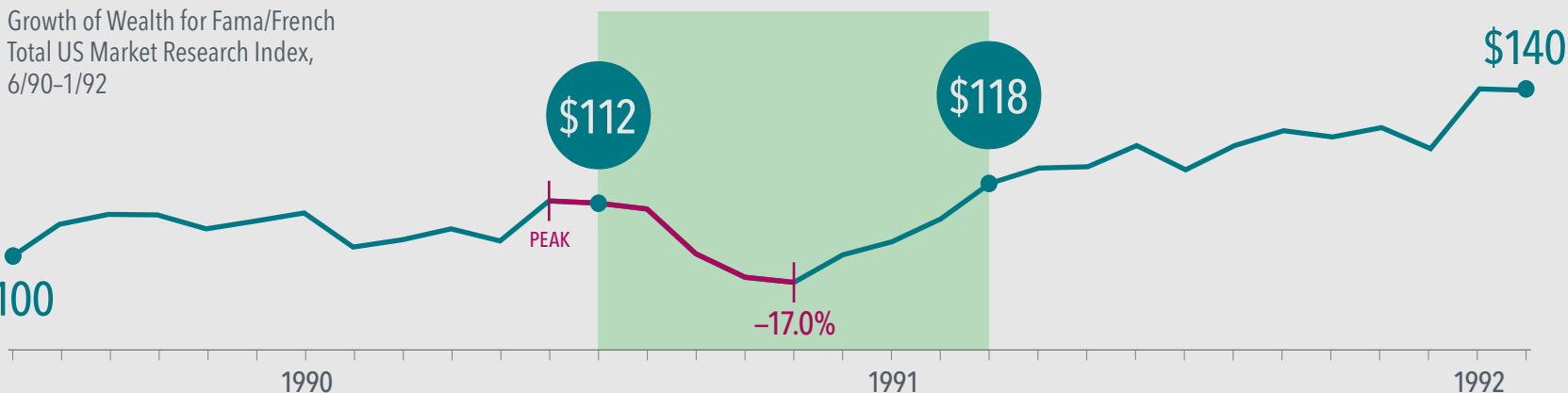
RECESSION

Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP
8	-3.2%	3.4%	6.6%	-1.4%

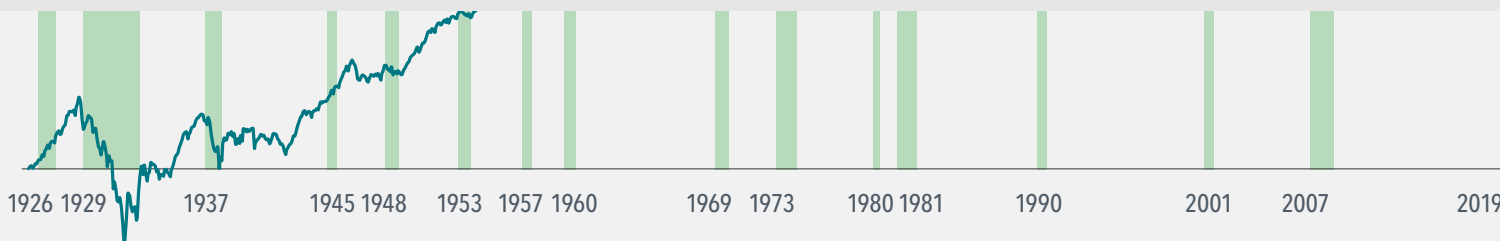
MARKET DOWNTURN

Duration (Months)	Return from Peak
5	-17.0%

Growth of Wealth for Fama/French
Total US Market Research Index,
6/90-1/92



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.

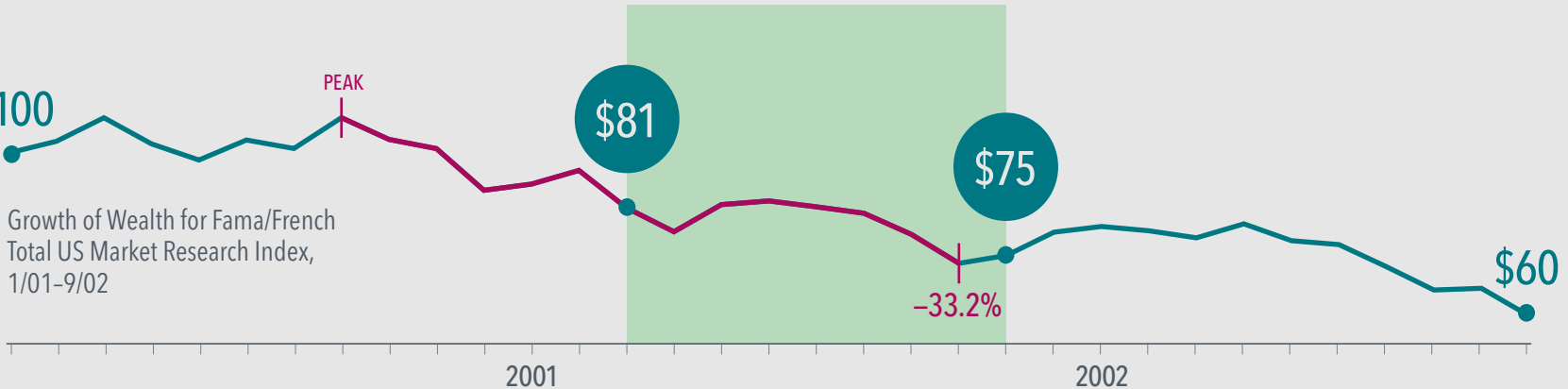


Tech Boom and Bust

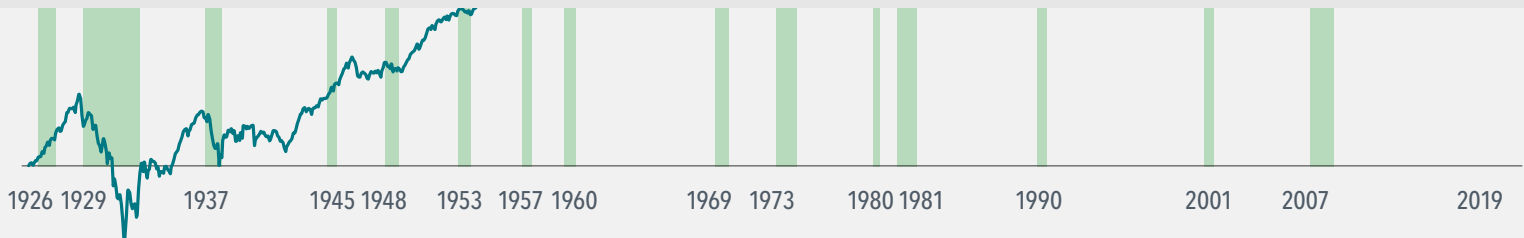


Many investors may not realize that the stock market had started a deep decline before the relatively mild recession in March 2001, which followed the tech boom.

RECESSION					MARKET DOWNTURN	
Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP	Duration (Months)	Return from Peak
8	-3.0%	0.9%	5.3%	0.4%	13	-33.2%



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



Global Financial Crisis



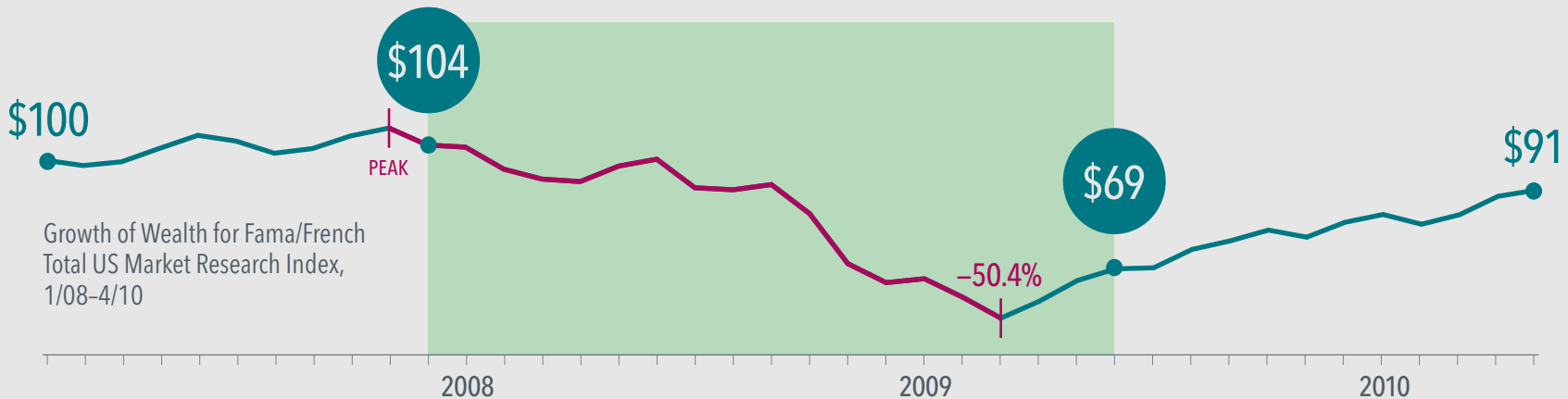
During the Global Financial Crisis, the worst of the 50.4% stock market dive happened in the latter half of an 18-month recession that saw unemployment hit 9.4% and industrial production tumble 17%. But after falling for 16 months, the market started a nearly 11-year bull run.

RECESSION

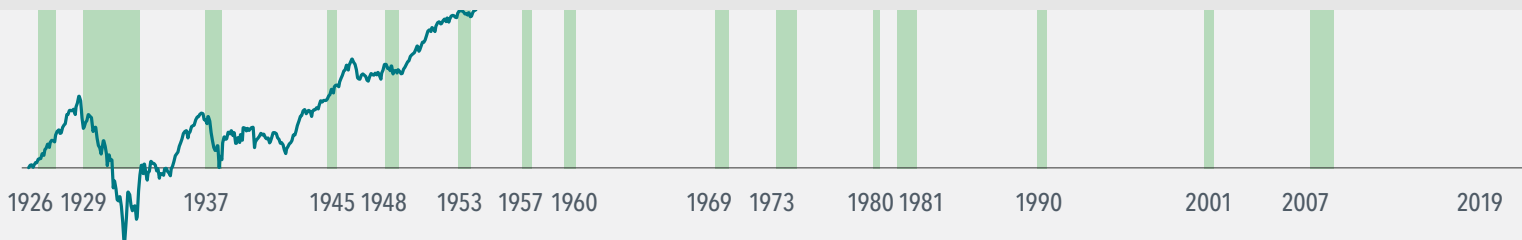
Duration (Months)	Industrial Production	Inflation	Max Unemployment	Change in GDP
18	-17.0%	1.8%	9.4%	-4.0%

MARKET DOWNTURN

Duration (Months)	Return from Peak
16	-50.4%



Peak represents month-end stock market peak prior to market downturn associated with recession. Past performance is no guarantee of future results.



NOTES AND DATA SOURCES

- In US dollars. Stock returns represented by Fama/French Total US Market Research Index, provided by Ken French and available at mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html. This value-weighted US market index is constructed every month, using all issues listed on the NYSE, AMEX, or Nasdaq with available outstanding shares and valid prices for that month and the month before. Exclusions: American depositary receipts. Sources: CRSP for value-weighted US market return. Rebalancing: Monthly. Dividends: Reinvested in the paying company until the portfolio is rebalanced.
- Growth of wealth shows the growth of a hypothetical investment of \$100 in the securities in the Fama/French US Total Market Research Index from July 1926 through December 2019.
- Gross Domestic Product (GDP) based on quarterly data from the US Bureau of Economic Analysis; quarterly data not available prior to 1947. Percentage change in GDP based on business cycle peak to trough quarter as reported by National Bureau of Economic Research (NBER).
- Industrial Production, Inflation, and Unemployment based on monthly data from Federal Reserve Bank of St. Louis (FRED); Unemployment data not reported prior to 1929.
- All calculations are cumulative.

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Data presented in the Growth of Wealth chart is hypothetical and assumes reinvestment of income and no transaction costs or taxes. The chart is for illustrative purposes only and is not indicative of any investment.

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