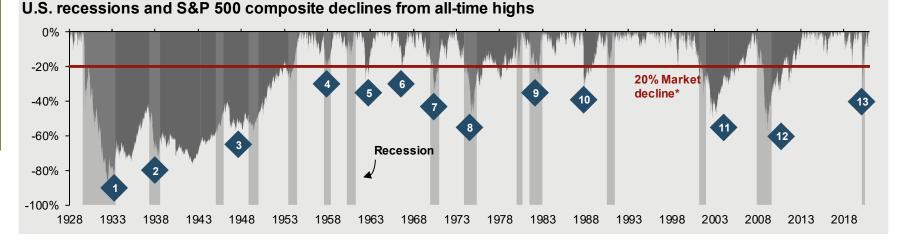
Bear markets and subsequent bull runs



Characteristics of bull and bear markets

		Bear Market			Macro environment				Bull markets		
Market correction		Market	Bear	Duration	Recession	Commodity	Aggressive	Extreme	Bull begin	Bull	Duration
		peak return*	(months)*		Spike	Fed	Valuation	date	return	(months)	
1	Crash of 1929 - Excessive leverage, irrational exuberance	Sep 1929	-86%	32	•			•	Jul 1926	152%	37
2	1937 Fed Tightening - Premature policy tightening	Mar 1937	-60%	61	•		•		M ar 1935	129%	23
3	Post WWII Crash - Post-war demobilization, recession fears	May 1946	-30%	36	•			•	Apr 1942	158%	49
4	Eisenhower Recession - Worldwide recession	Aug 1956	-22%	14	•		•	•	Jun 1949	267%	85
5	Flash Crash of 1962 - Flash crash, Cuban Missile Crisis	Dec 1961	-28%	6				•	Oct 1960	39%	13
6	1966 Financial Crisis - Credit crunch	Feb 1966	-22%	7			•	•	Oct 1962	76%	39
7	Tech Crash of 1970 - Economic overheating, civil unrest	Nov 1968	-36%	17	•	•	•		Oct 1966	48%	25
8	Stagflation - OPEC oil embargo	Jan 1973	-48%	20	•	•			May 1970	74%	31
9	Volcker Tightening - Whip Inflation Now	Nov 1980	-27%	20	•	•	•		Mar 1978	62%	32
10	1987 Crash - Program trading, overheating markets	Aug 1987	-34%	3				•	Aug 1982	229%	60
11	Tech Bubble - Extreme valuations, .com boom/bust	M ar 2000	-49%	30	•			•	Oct 1990	417%	113
12	Global Financial Crisis - Leverage/housing, Lehman collapse	Oct 2007	-57%	17	•	•	•		Oct 2002	101%	60
13	Global Slowdown - COVID-19, oil price war	Feb 2020	-34%	1	•				M ar 2009	401%	141
	Averages	-	-42%	22					-	166%	54

Source: FactSet, NBER, Robert Shiller, Standard & Poor's, J.P. Morgan Asset Management.

*A bear market is defined as a 20% or more decline from the previous market high. The related market return is the peak to trough return over the cycle. Periods of "Recession" are defined using NBER business cycle dates. "Commodity spikes" are defined as movement in oil prices of over 100% over an 18-month period. Periods of "Extreme Valuations" are those where S&P 500 last 12-months P/E levels were approximately two standard deviations above long-run averages, or time periods where equity market valuations appeared expensive given the broader macroeconomic environment. "Aggressive Fed Tightening" is defined as Federal Reserve monetary tightening that was unexpected and/or significant in magnitude. Bear and bull returns are price returns.



Guide to the Markets – U.S. Data are as of December 31, 2020.

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