



Topical Research:

Gold Market Trends

As of 12/17/21

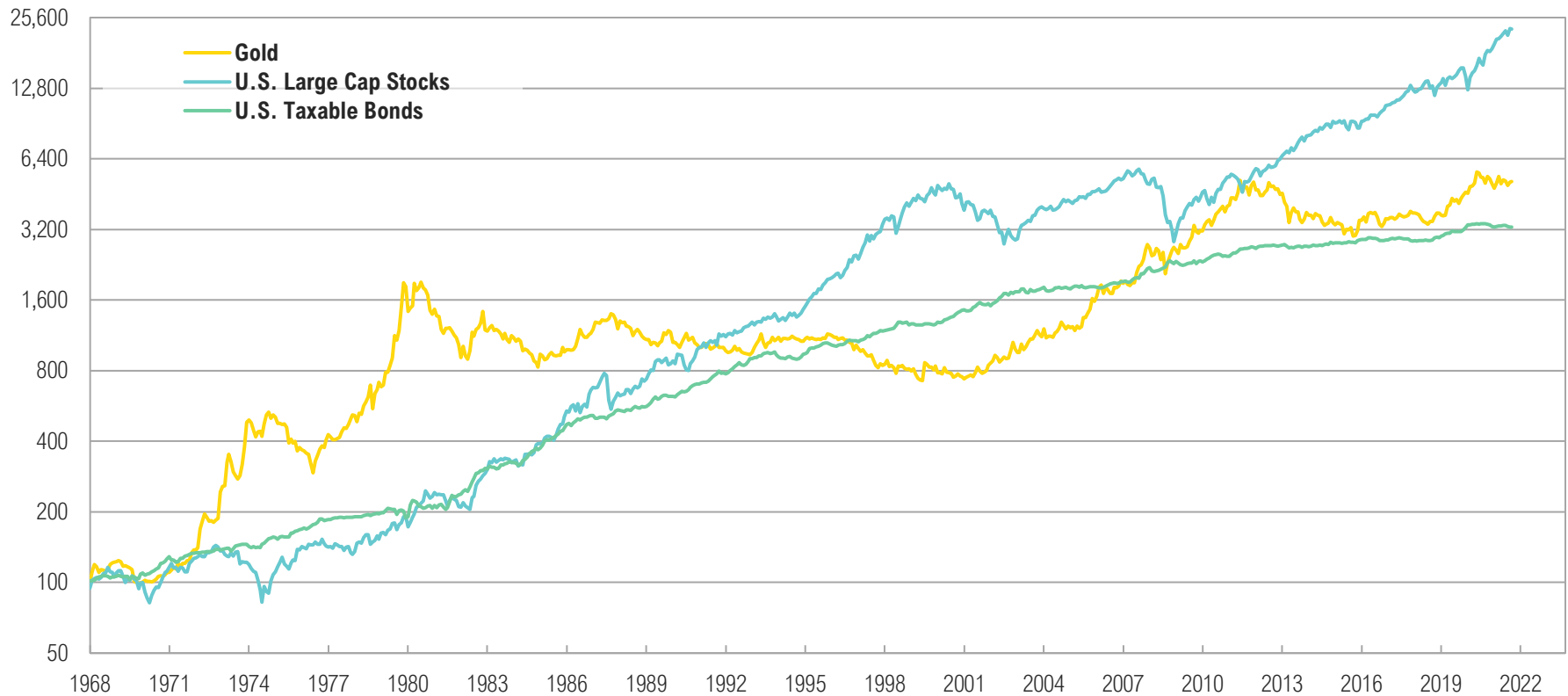
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Gold has trailed stocks, but outpaced bonds for more than 50 years

GROWTH OF 100



Asset Class	Name	QTD	YTD	5-Yr	10-Yr	20-Yr	50-Yr	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Gold	LBMA Gold Price Index	2.3	-4.9	8.6	0.5	9.8	7.9	24.2	18.8	-1.1	11.9	9.1	-11.4	-0.2	-27.8	5.7	-27.8
U.S. Large Cap Stocks	IA SBBI US Large Stock Index	6.9	23.2	17.9	16.2	9.3	11.1	18.4	31.5	-4.4	21.8	12.0	1.4	13.7	32.4	16.0	32.4
U.S. Taxable Bonds	IA SBBI US IT Govt Index	-0.9	-2.7	2.7	2.1	3.9	6.8	7.3	8.3	1.2	1.6	1.9	1.8	3.0	-3.7	1.7	-3.7

Source: Bloomberg.

Returns for periods longer than 1 year are annualized. Data as of most recent month end.

Gold Market Trends

SEE IMPORTANT DISCLOSURES AT THE END OF THIS PRESENTATION

➤ After strong returns out of the pandemic lows, gold has been a notable underperformer since the vaccine announcements

Asset Class	Benchmark	3/10/00 (Tech Bubble peak)	10/9/02 (Tech Bubble low)	10/9/07 (Housing Bubble high)	3/9/09 (GFC low)	11/8/16 (Trump election)	1/26/18 (Jan high)	3/21/18 (start of Trade War)	9/21/18 (Sep 2018 high)	12/24/18 (Dec low)	8/1/19 (Trade War escalation)	2/20/20 (Covid-19 escalation)	11/9/20 (Covid-19 Vaccine)
■ Cryptocurrencies	MVIS CryptoCompare Digital Top 25 In	-	-	-	-	172.3	20.8	40.3	85.6	134.9	129.6	183.9	415.3
■ Bitcoin	MVIS CryptoCompare Bitcoin Index	-	-	-	-	138.6	47.8	59.0	88.7	138.3	97.1	140.3	193.2
■ Midstream Energy	Alerian MLP Index	2.7	8.1	3.6	7.9	-1.4	-4.8	0.3	-5.1	2.8	-4.9	2.0	64.0
■ US REITs	MSCI US REIT Index	11.7	11.2	6.8	18.5	10.5	12.2	14.5	12.4	18.3	12.6	10.6	44.5
■ US Micro Cap Stocks	Russell Micro Cap Index	12.1	11.1	7.6	17.1	14.8	10.1	10.7	9.6	23.2	20.4	21.7	39.9
■ US Large Cap Stocks	S&P 500 Index	15.1	11.9	10.4	18.7	19.1	16.0	18.0	17.9	28.7	23.4	22.0	32.9
■ US Small Cap Stocks	Russell 2000 Index	12.2	11.7	8.5	17.1	14.4	10.1	11.0	9.5	22.2	16.9	17.3	32.5
■ Commodity Futures	Bloomberg Commodity Index	-2.2	0.8	-3.4	-0.2	4.0	3.0	4.2	5.6	8.9	9.6	14.0	30.0
■ Global Real Estate Sec's	S&P Global Property Index	8.5	9.7	3.8	14.4	8.0	5.6	7.5	7.8	11.8	7.2	4.4	27.5
■ Closed-End Funds	S-Network Composite CEF Index	7.8	-	6.7	12.9	9.8	7.9	9.0	9.4	15.6	10.1	8.1	22.2
■ Intl Dev Ex-US Stocks	MSCI EAFE Index	6.7	8.5	3.2	10.9	10.0	4.4	6.6	7.7	14.3	11.2	10.3	20.4
■ Intl Dev Ex-US Real Est.	S&P Global Ex US Property Index	6.4	9.1	1.9	11.8	5.9	0.4	2.1	3.9	6.6	2.5	-1.2	13.4
■ Municipal High Yield Bonds	Bloomberg US HY Muni Index	6.8	6.3	5.4	8.3	6.4	7.4	7.6	7.4	7.8	6.6	5.2	10.4
■ US High Yield Bonds	Bloomberg US Corporate HY Index	7.1	8.6	7.2	10.8	6.4	5.7	6.4	6.4	8.9	6.3	5.7	7.6
■ Emerging Market Stocks	MSCI EM Index	4.8	11.4	2.6	10.5	9.4	2.2	3.4	8.4	12.3	10.4	9.3	7.2
■ US Leveraged Loans	S&P/LSTA Leveraged Loan Index	4.7	5.0	4.6	7.5	4.5	4.2	4.2	4.1	5.5	4.2	4.1	7.2
■ Emerging Market Bonds	JPM EMBI Global Diversified Index	5.9	8.0	6.2	7.9	4.0	3.4	4.3	5.5	6.1	2.4	0.6	1.6
■ US Inter-Term Muni Bonds	Bloomberg Municipal Bond 1-10Y Inde	2.9	3.4	3.5	3.3	2.6	3.1	3.4	3.7	3.5	2.4	1.8	1.2
■ Cash	Bloomberg 1-3 Mth Treasury Index	0.5	1.2	0.6	0.5	1.1	1.2	1.2	1.1	1.0	0.6	0.2	0.1
■ Short-Term Bonds	Bloomberg 1-3 Year Treasury Index	1.2	2.0	1.8	1.3	1.5	2.0	2.2	2.3	2.1	1.6	1.1	-0.5
■ US Inter-Term Bonds	Bloomberg U.S. Agg Bond Index	3.5	4.1	4.1	3.9	3.0	3.9	4.4	5.0	4.9	3.3	2.0	-1.0
■ Developed Ex-US Bonds	S&P International Sov Ex-US Bond Inde	1.4	4.2	2.4	2.4	1.6	0.1	0.3	1.8	2.2	0.7	1.7	-5.8
■ Gold	LBMA Gold Price PM	4.1	9.4	6.5	5.2	6.6	7.3	8.5	12.8	12.4	9.8	5.9	-7.6

Source: Bloomberg. Returns for periods longer than 1 year are annualized

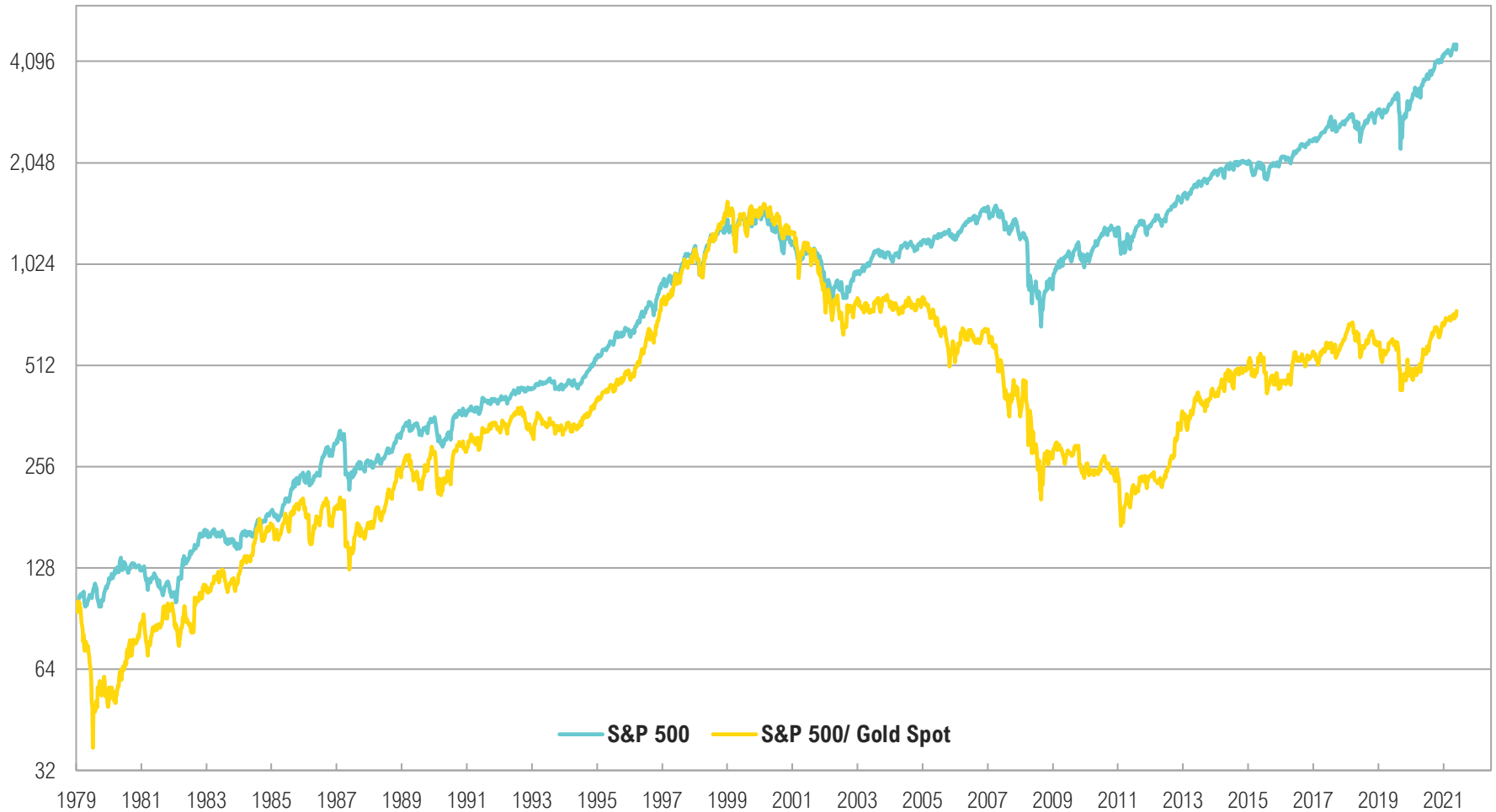
U.S. large cap stocks-to-gold ratio for over 100 years



Source: Bloomberg

➤ Priced in gold, stocks are yet to regain Tech Bubble highs

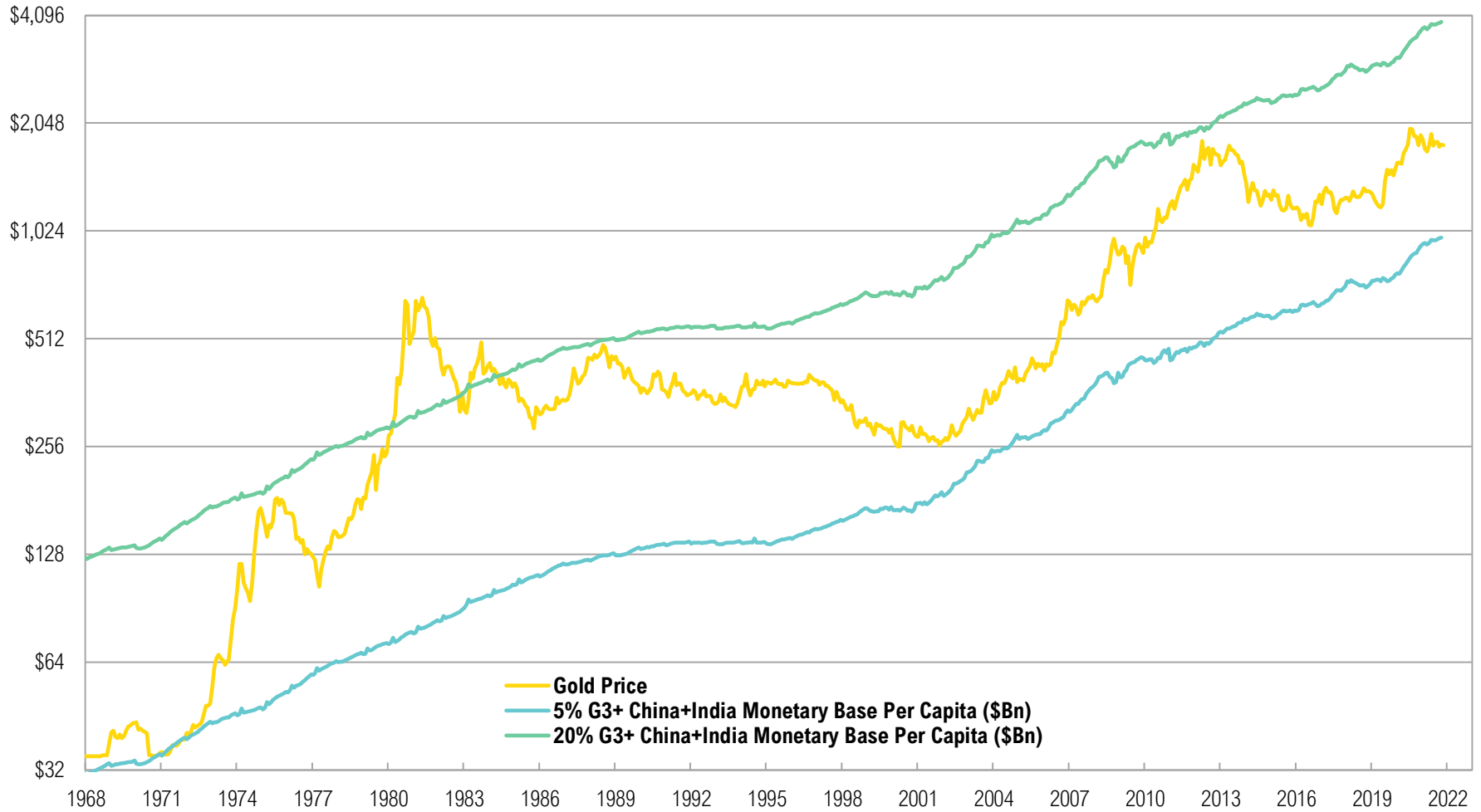
GROWTH OF 100



Source: Bloomberg

➤ Assuming the price of gold tracks global monetary base per capita over the long term implies expected returns over 6%

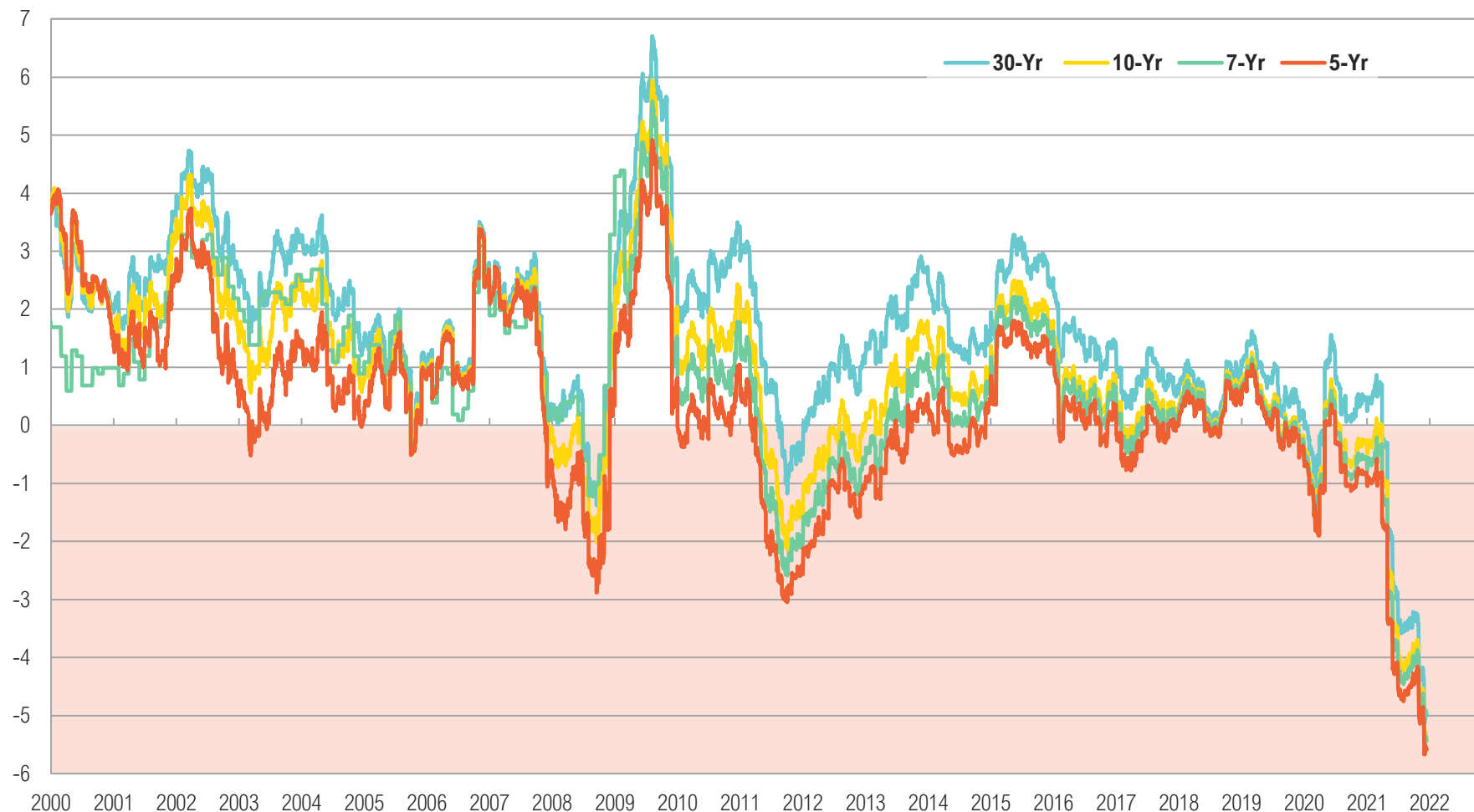
GOLD PRICE (\$/ OZ), MONETARY BASE (\$BN)



Source: Bloomberg. Monetary base data as of most recent available.
India M2 Money Supply data has been proxied using SpringTide estimates.

➤ Real yields, which historically have had a strong inverse correlation with the price of gold, are at the lowest level of the last 40 years...

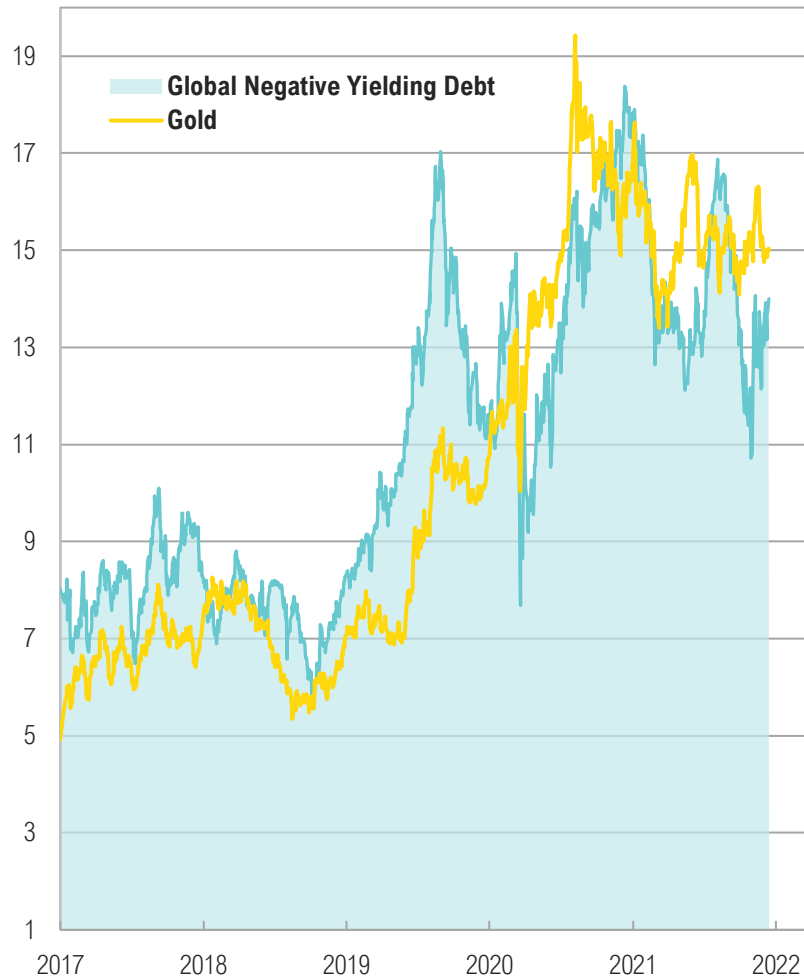
REAL YIELD, %



Source: Bloomberg

➤ ...but the relationship between real yields and gold appears to be breaking down, potentially as investors move to perceived digital safe-havens

GLOBAL AGGREGATE NEGATIVE YIELDING DEBT MKT CAP, \$TN



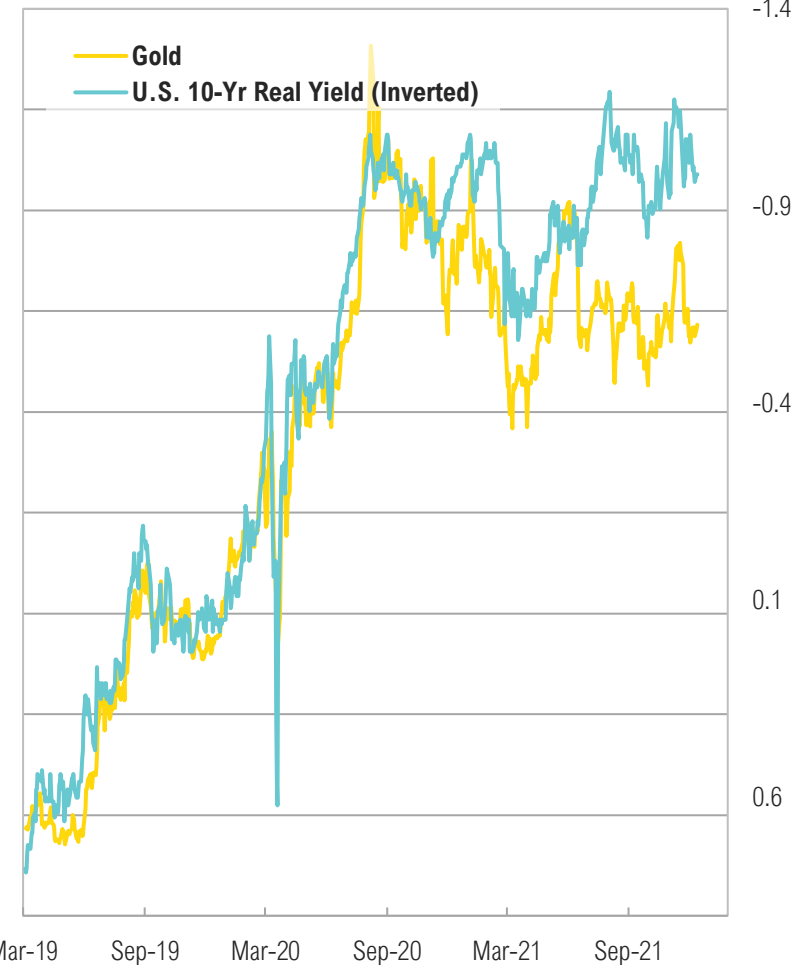
GOLD, \$/OZ



GOLD, \$/OZ



U.S. 10-YR REAL YIELD (INVERTED), %



Source: Bloomberg

U.S. 10-year Real Yield is represented by the U.S. Treasury Real Constant Maturity Treasury (R-CMTs) rate.

Gold Market Trends

SEE IMPORTANT DISCLOSURES AT THE END OF THIS PRESENTATION

Despite the year-to-year volatility, longer-term returns have been surprisingly consistent across multiple currencies

Calendar Year Returns																							
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	YTD	20-Yr
Average	1.6	14.3	35.3	10.2	-0.2	23.2	18.4	21.9	20.6	18.4	26.9	16.8	6.0	-23.1	10.7	2.2	11.2	8.7	10.2	21.2	28.9	2.3	12.1
Developed Markets	-0.8	7.4	15.4	9.3	0.1	27.1	17.1	22.3	12.7	18.9	26.3	11.6	6.1	-26.3	7.7	-4.6	10.0	7.5	1.7	16.3	20.0	-2.8	9.0
U.S. Dollar	-5.8	2.4	24.8	19.4	5.4	17.9	23.2	30.9	5.8	24.5	29.5	10.1	7.1	-28.3	-1.8	-10.2	8.1	13.5	-1.6	18.3	25.1	-5.9	9.8
Euro	2.4	8.4	5.8	-0.6	-2.4	35.0	10.4	18.5	10.5	22.3	38.6	13.7	5.2	-30.8	11.4	0.1	11.8	-0.7	3.1	21.0	14.9	1.9	8.5
Canadian Dollar	-2.4	8.9	23.2	-1.8	-2.3	14.1	23.4	12.2	24.0	7.7	22.8	12.7	4.0	-23.3	6.3	7.0	4.9	6.6	7.0	12.7	22.6	-5.3	8.7
Hong Kong Dollar	-5.5	2.3	24.8	18.8	5.6	17.8	23.4	31.3	5.1	24.5	29.8	10.0	6.8	-28.1	-1.8	-10.3	8.2	14.8	-1.7	17.7	24.5	-5.3	9.8
Israeli Shekkel	-7.5	11.4	34.5	10.5	3.9	25.6	12.7	19.7	3.7	24.9	21.0	19.1	4.9	-32.6	10.5	-10.4	7.4	2.2	5.8	9.7	16.3	-8.8	8.1
Japanese Yen	6.2	17.9	12.6	7.7	0.7	35.4	24.3	22.9	-14.0	27.7	12.9	4.3	20.8	-12.9	10.7	-9.9	5.0	9.8	-4.2	17.1	18.8	3.5	9.2
Norwegian Krone	5.1	4.4	-3.6	14.7	-4.3	30.9	13.7	14.2	35.3	4.1	30.7	13.1	-0.3	-21.6	20.6	6.6	5.6	8.2	3.7	20.1	22.2	-0.8	9.9
Swiss Franc	-3.1	5.5	3.8	6.9	-3.4	36.0	14.2	21.8	-0.2	21.3	16.9	10.5	4.4	-29.9	8.5	-9.5	10.0	8.6	-0.8	16.6	14.5	-1.8	6.7
British Pound	3.2	5.3	12.6	7.6	-2.0	31.4	8.2	29.3	44.0	12.9	33.9	10.6	2.4	-29.5	4.5	-5.1	29.2	4.1	4.2	13.7	21.3	-2.7	10.3
Emerging Markets	4.1	21.3	55.2	11.1	-0.6	19.3	19.7	21.5	28.4	17.9	27.5	22.0	5.9	-19.9	13.8	9.0	12.3	10.0	18.7	26.1	37.7	7.3	15.2
Brazilian Real	1.0	21.1	91.2	-2.5	-3.2	3.7	12.6	9.6	37.6	-6.9	23.2	23.7	17.9	-17.1	10.1	34.4	-10.8	15.1	15.4	23.1	61.6	2.9	14.7
Argentine Peso	-5.9	2.3	319.2	4.1	6.7	20.2	24.4	35.4	16.0	36.9	35.5	19.4	22.1	-4.5	27.6	36.9	33.2	32.7	99.3	89.3	76.5	13.8	38.4
Chinese Renminmi	-5.8	2.3	24.8	19.4	5.4	15.0	19.1	22.3	-1.1	24.5	25.0	5.3	5.9	-29.6	0.7	-6.1	16.6	5.5	3.9	20.4	17.2	-8.1	8.4
Hungarian Forint	6.2	-0.4	1.8	10.7	-8.9	39.0	9.8	19.2	15.8	24.1	43.3	28.6	-2.9	-29.0	19.4	-0.2	10.1	-0.5	6.9	25.1	25.8	3.3	10.7
Turkish Lira	16.3	121.5	42.4	1.4	0.7	18.6	29.1	8.5	39.3	21.2	33.9	34.5	1.3	-12.8	6.9	12.5	30.9	22.0	37.4	33.6	56.6	74.8	23.1
Indian Rupee	1.0	5.8	24.0	13.5	0.5	22.3	21.0	17.3	30.6	18.7	24.1	30.9	10.4	-18.0	0.7	-6.0	11.4	6.2	7.2	21.4	28.0	-2.2	12.4
Korean Won	5.7	6.5	12.6	20.0	-8.4	15.1	13.4	32.4	42.4	14.6	25.4	13.8	-1.9	-27.4	2.2	-3.4	11.5	-0.1	2.9	23.4	18.0	2.0	9.4
Mexican Peso	-4.6	-2.8	41.4	29.2	4.8	12.5	25.1	32.3	32.5	18.8	22.2	24.4	-1.4	-26.7	11.6	4.8	30.4	7.3	-1.8	14.5	31.7	-0.6	14.5
South African Rand	16.4	61.4	-10.8	-6.9	-10.7	32.0	36.0	26.5	47.0	-3.2	16.2	34.3	12.0	-10.2	8.5	20.4	-3.7	2.0	14.2	15.5	31.3	2.5	11.7
Russian Ruble	-3.0	10.9	30.7	9.2	-0.1	22.3	12.8	22.9	31.1	27.4	31.5	16.2	1.7	-22.5	65.1	11.7	-8.9	6.1	17.7	5.6	49.6	-6.5	14.8
Philippines Peso	17.8	5.6	29.5	24.4	6.8	11.3	13.7	10.1	21.6	21.1	22.4	10.8	0.2	-21.0	-0.6	-5.9	15.0	13.8	3.1	15.5	18.6	-1.3	9.6

Source: Bloomberg

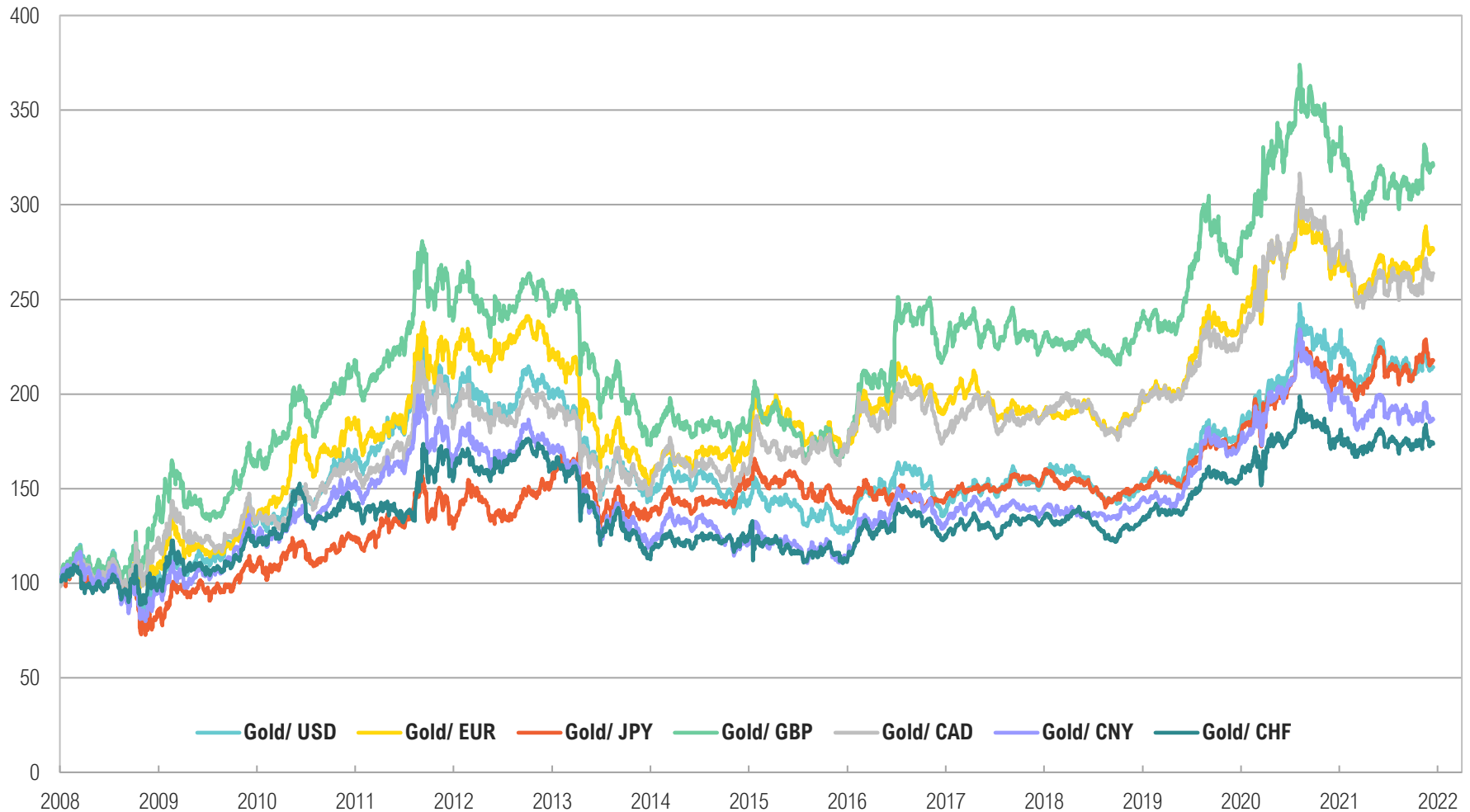
Returns for periods longer than 1 year are annualized.

Gold Market Trends

SEE IMPORTANT DISCLOSURES AT THE END OF THIS PRESENTATION

➤ The longer-term bull market appears intact despite drawdown across several major currencies

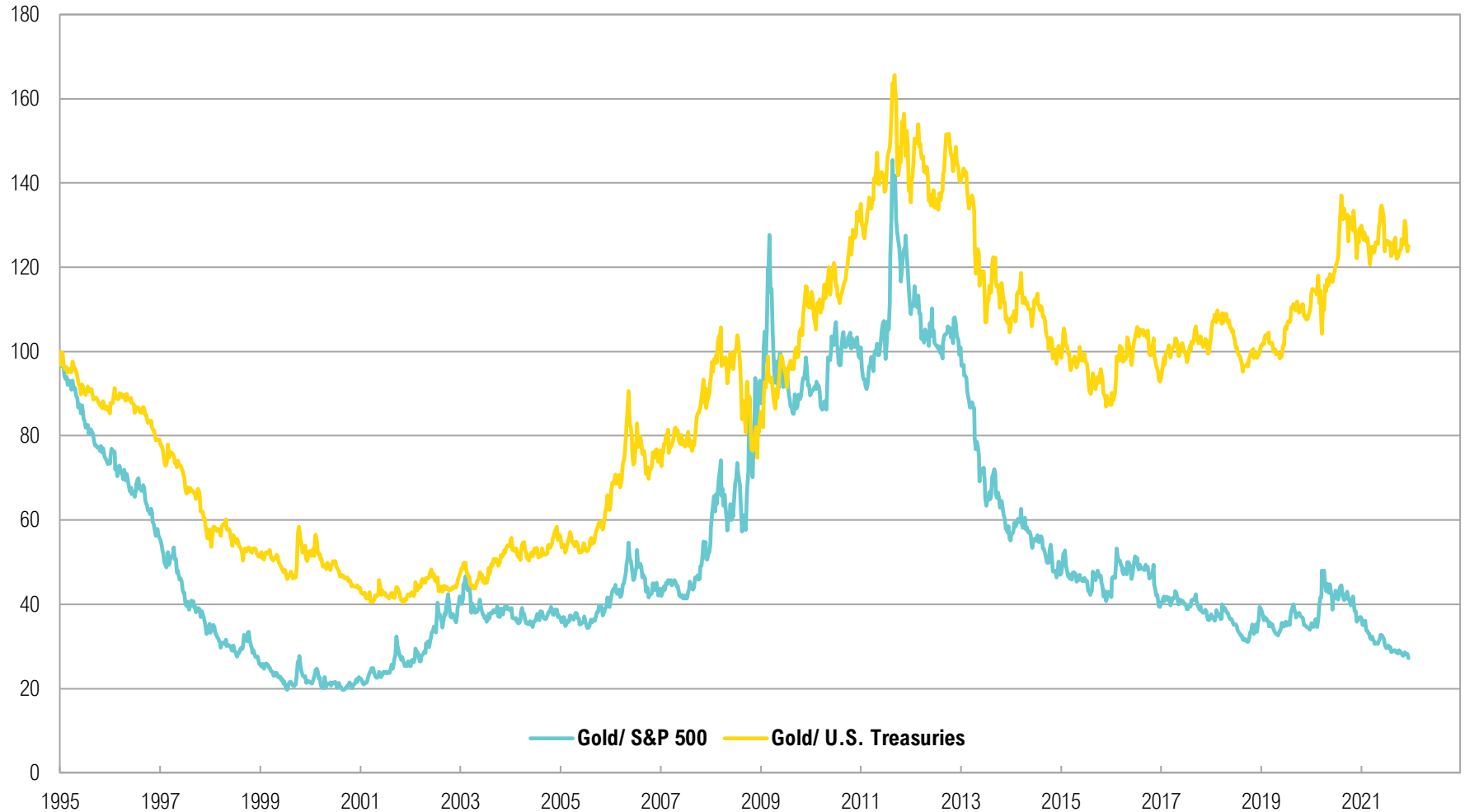
GROWTH OF 100



Source: Bloomberg

➤ Gold looks cheap relative to U.S. stocks and doesn't look overbought relative to Treasuries

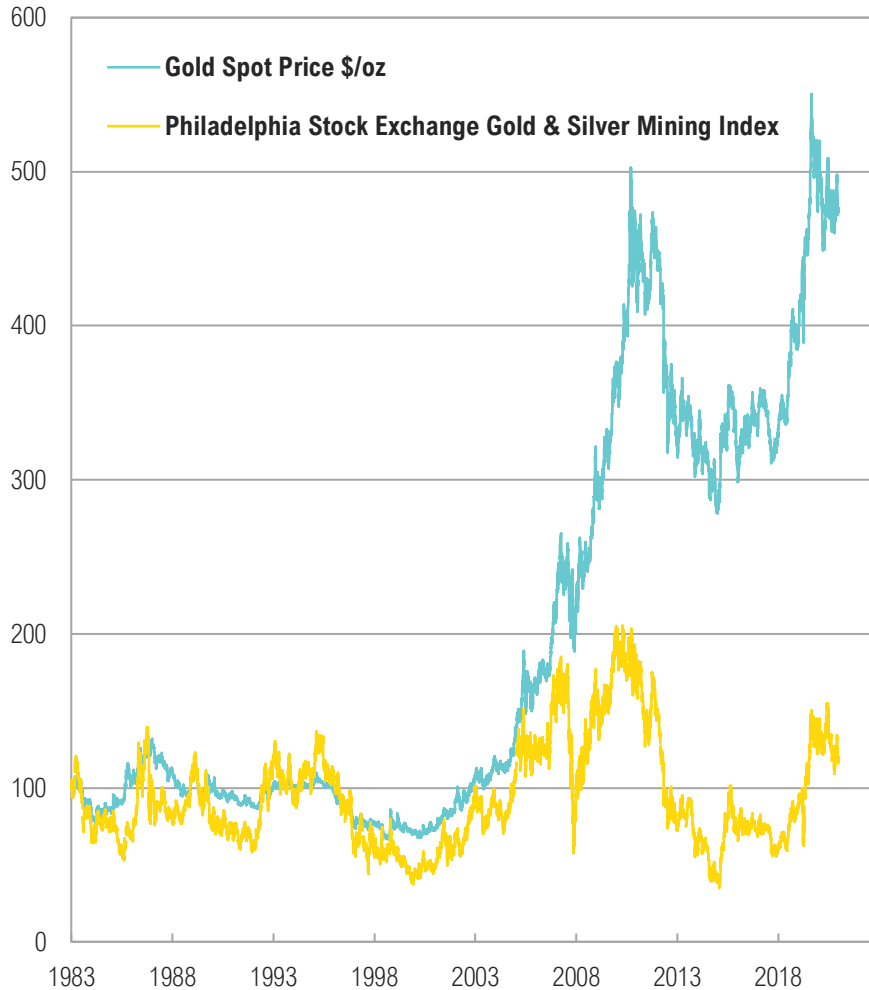
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Source: Bloomberg

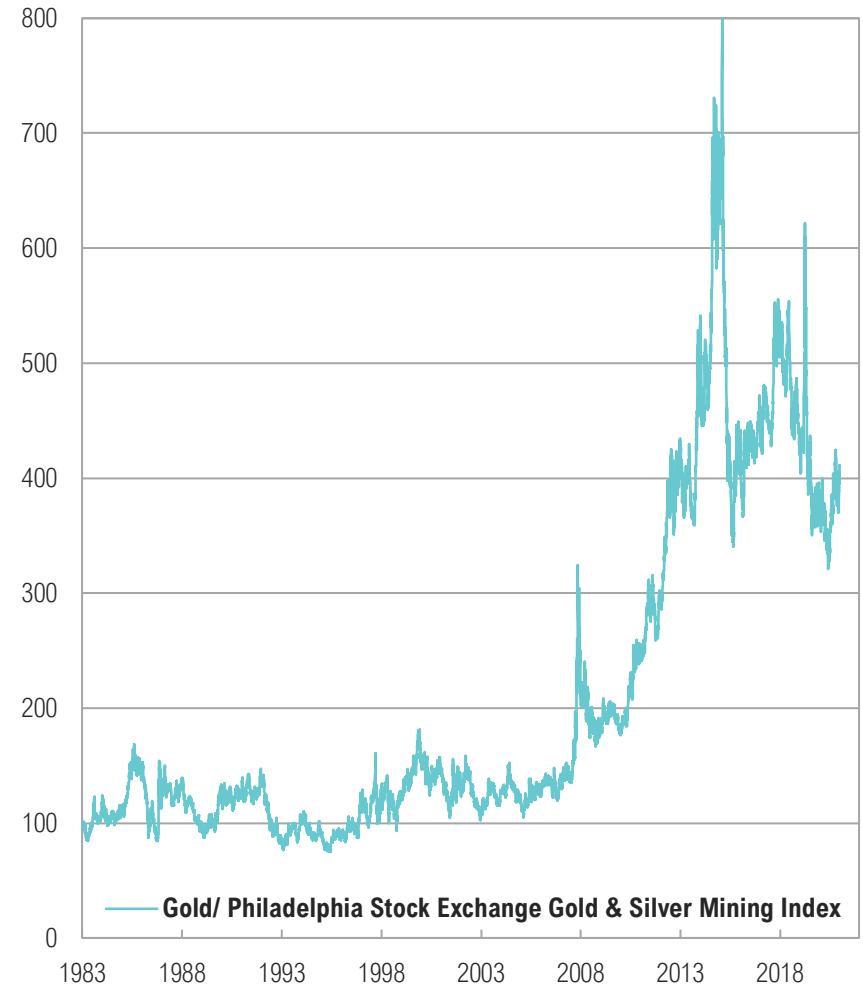
➤ Gold miners still look very cheap relative to bullion

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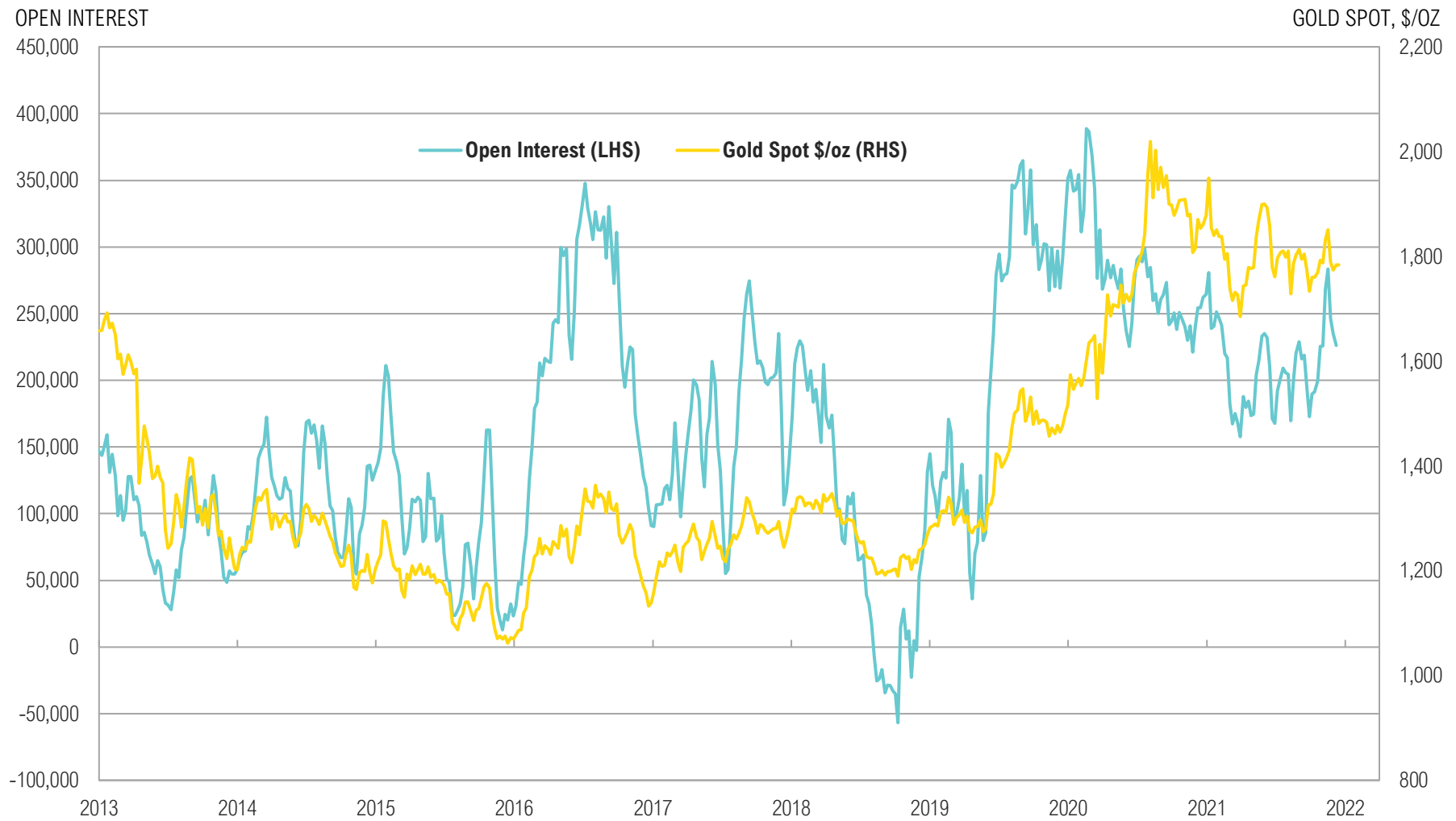


Source: Bloomberg

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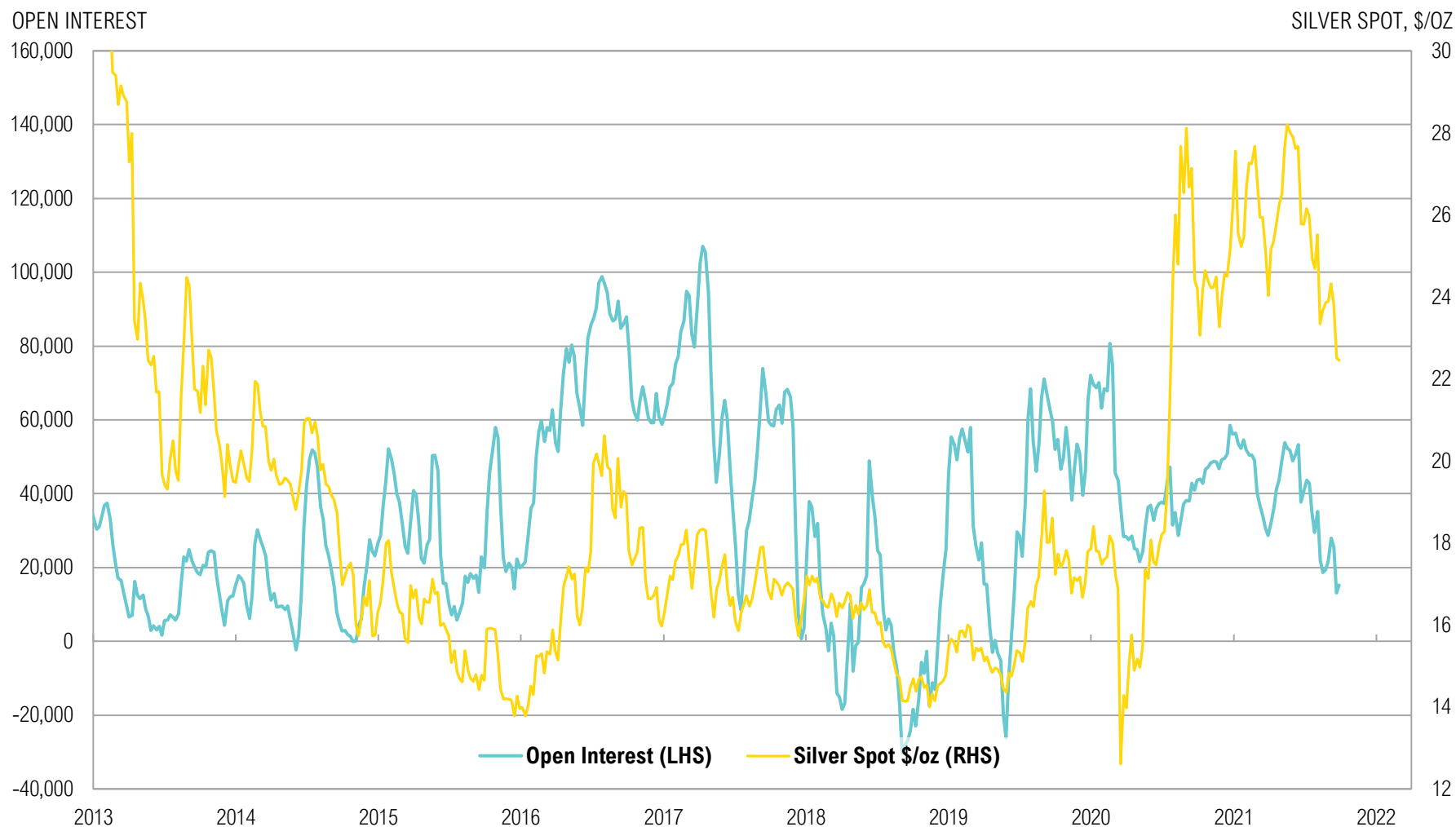
Gold futures sentiment not overly bullish as gold price consolidates



Source: Bloomberg
 *Data as of most recent available.



Silver sentiment trending lower as price drops below support

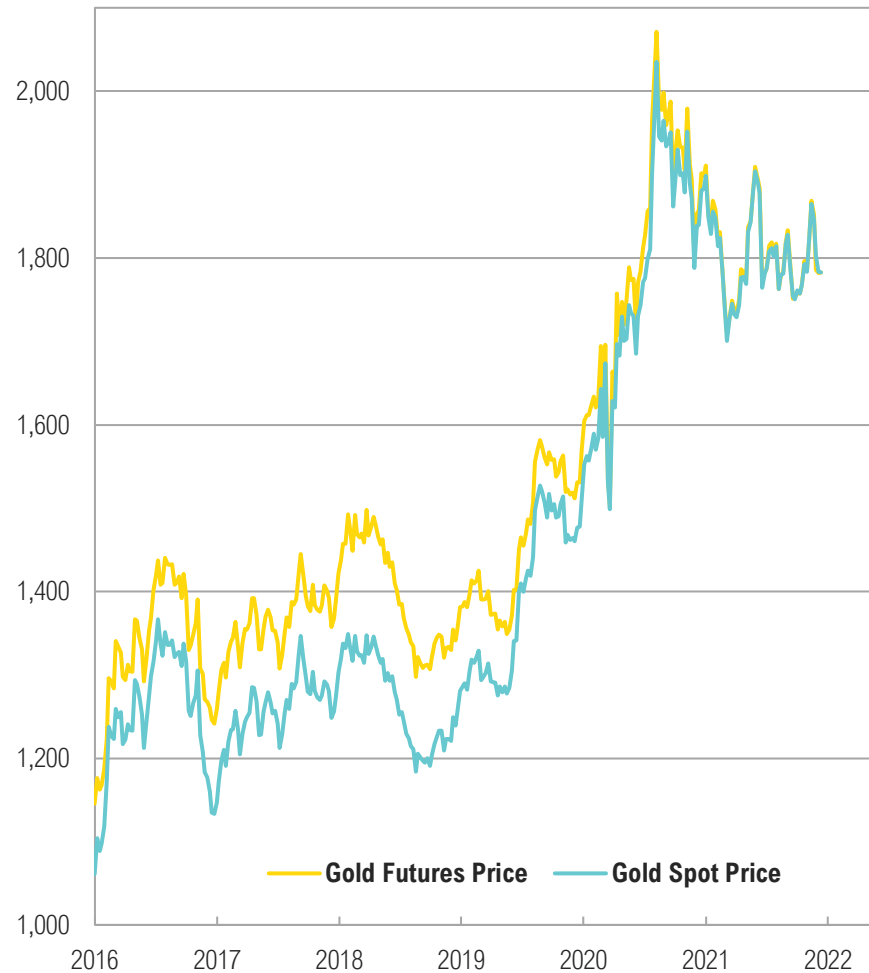


Source: Bloomberg

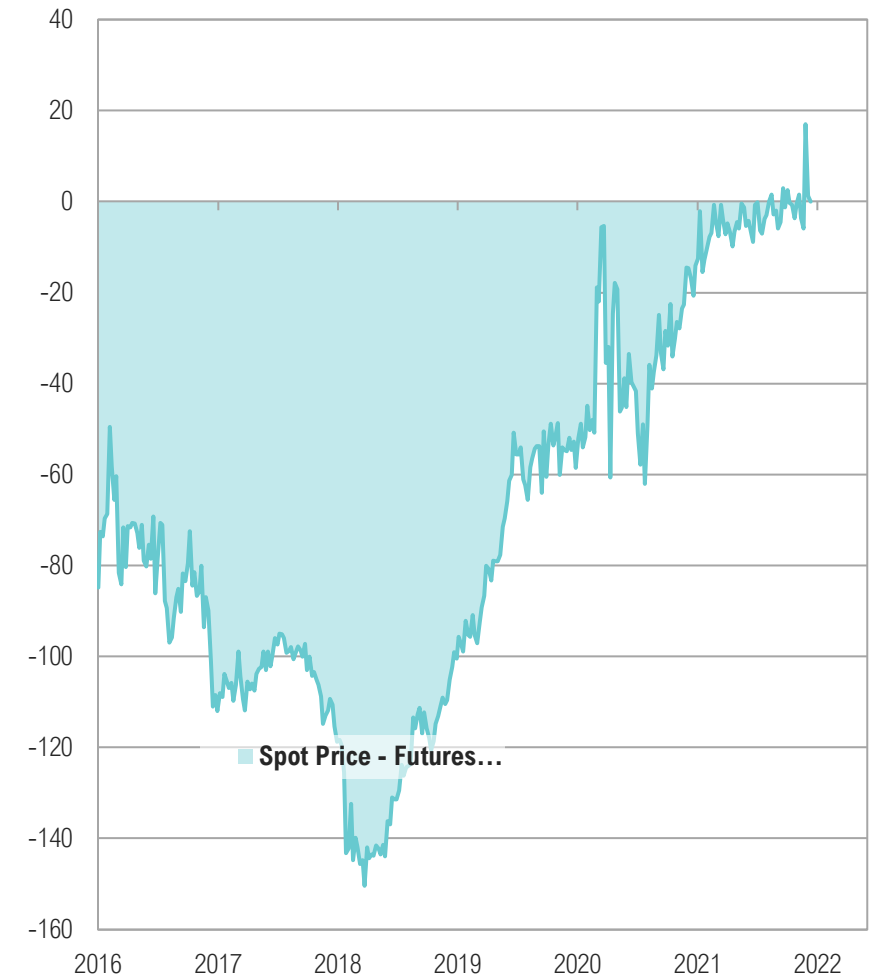
*Data as of most recent available.

➤ High demand for physical hints at increased perceived systemic risk

GOLD, \$/OZ



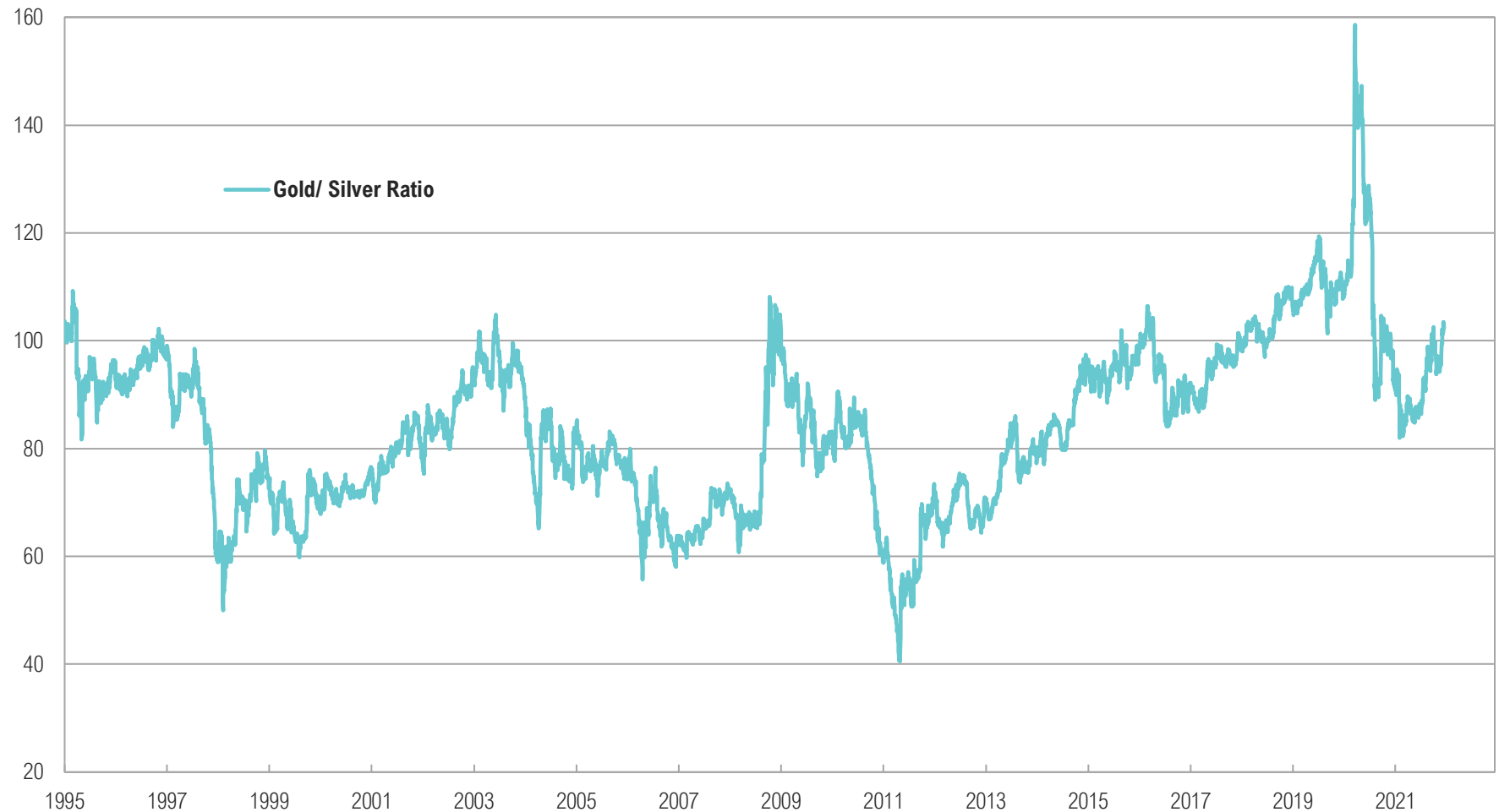
SPREAD: SPOT - FUTURES



Source: Bloomberg

➤ Possible local low in gold relative to silver

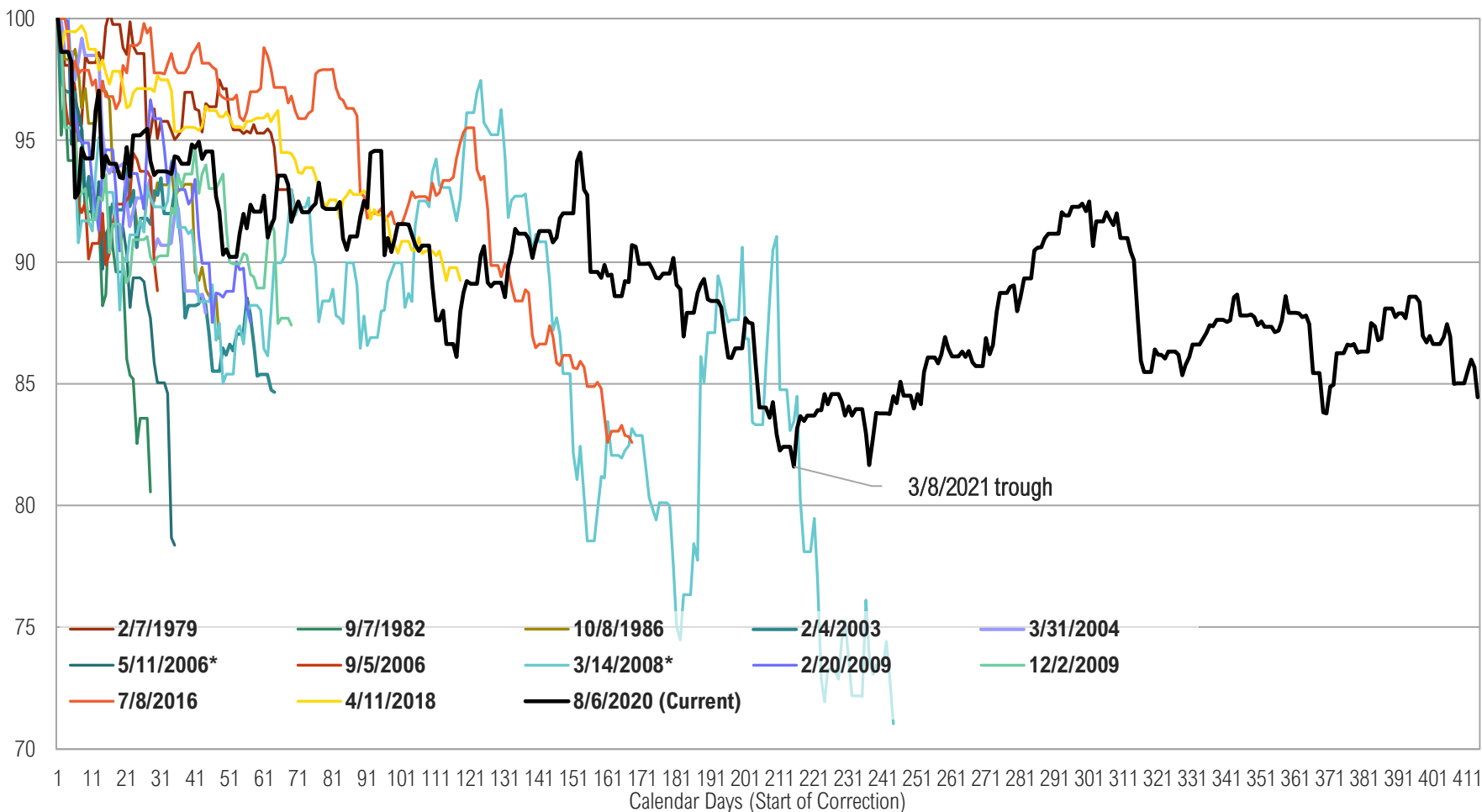
GROWTH OF 100



Source: Bloomberg

➤ Assuming 3/8/2021 was the low, this last correction was run-of-the-mill relative to historical bull market declines

GROWTH OF 100



Source: Bloomberg

*Technical bear market in context of a larger bull market.

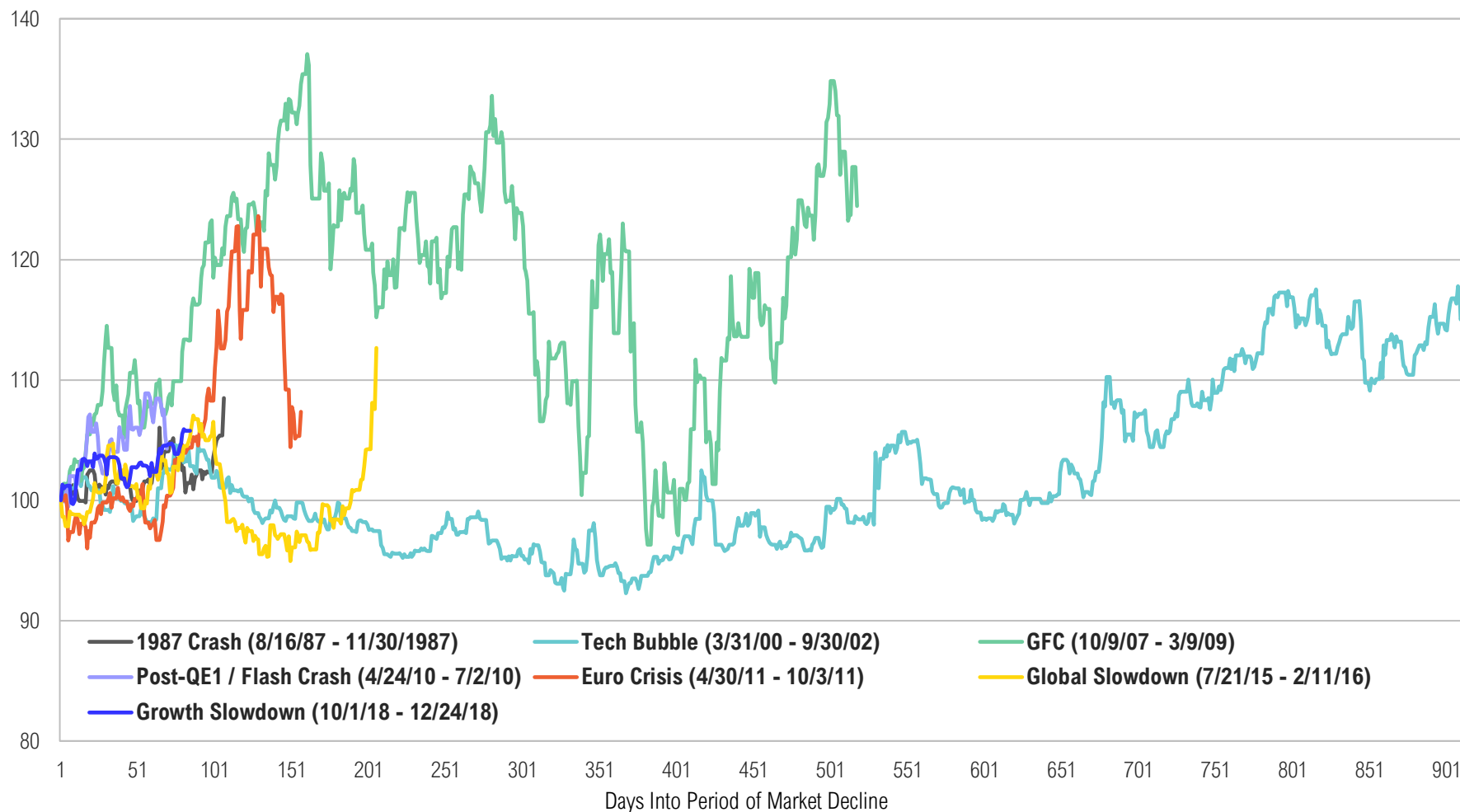
Gold Market Trends

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➤ Gold has had mixed, but generally positive returns during stock market declines

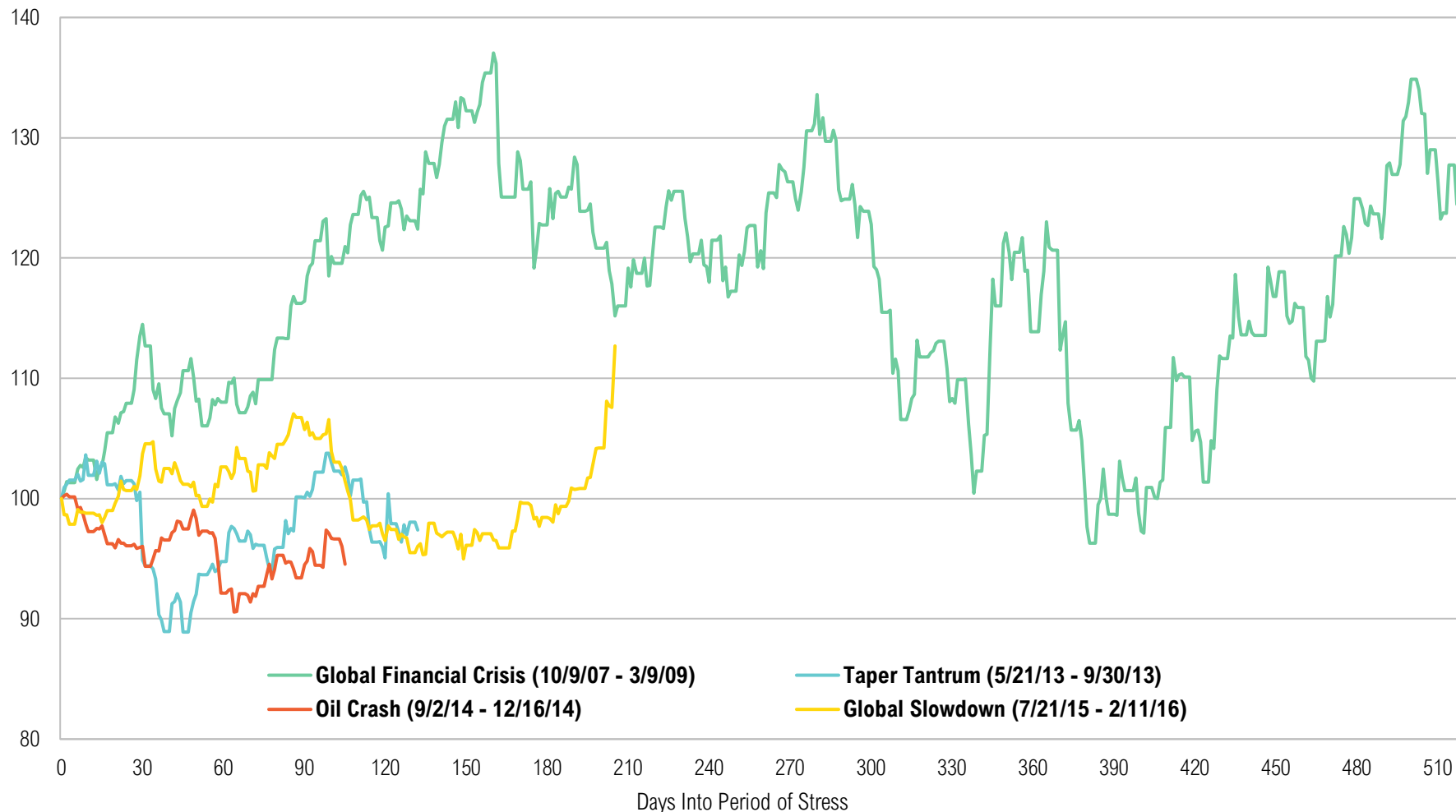
GROWTH OF 100



Source: Bloomberg

➤ Gold has mixed historical returns during significant market events

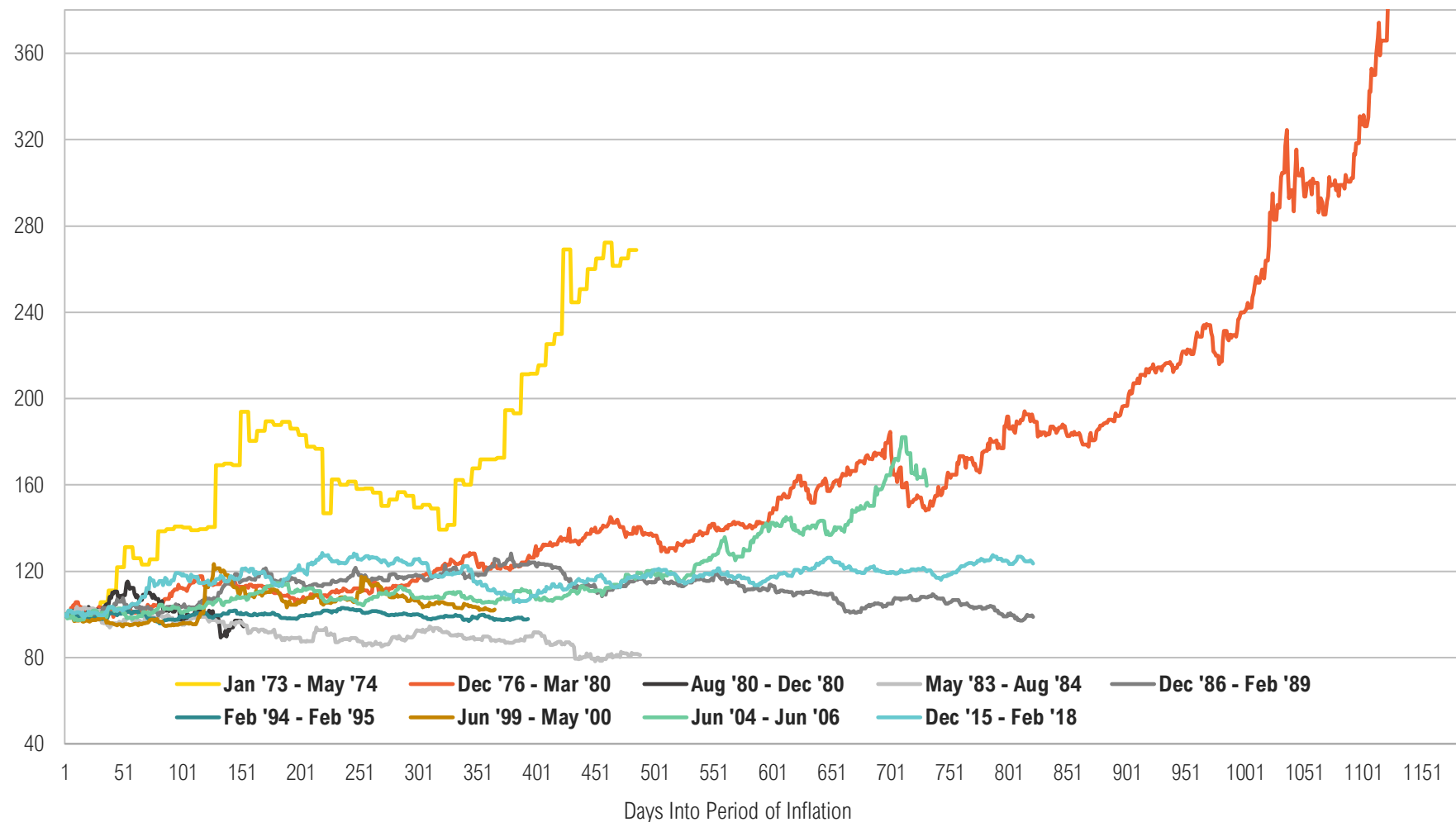
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Source: Bloomberg

➤ Gold has a decent track record as an inflation hedge, but it is by no means a portfolio panacea during these episodes

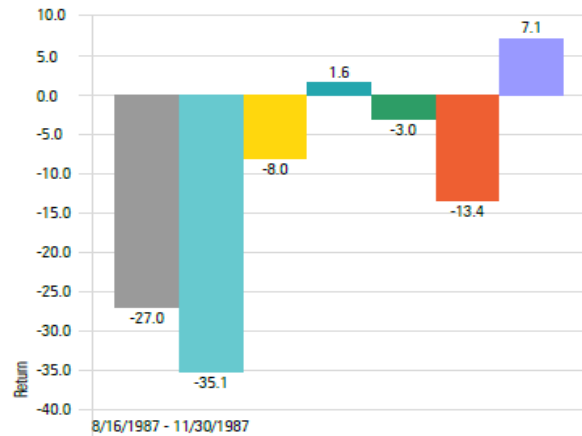
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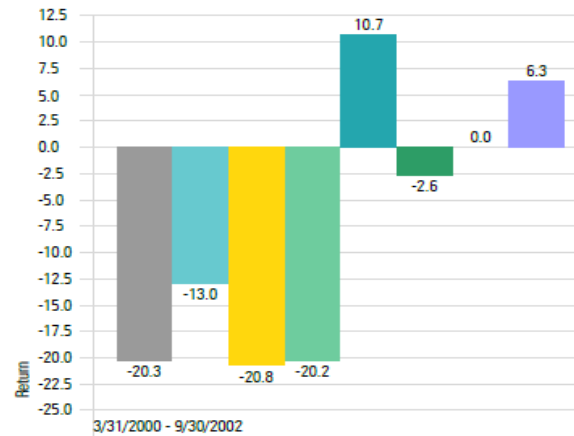
Source: Bloomberg

Case study 1: gold returns during stock market declines

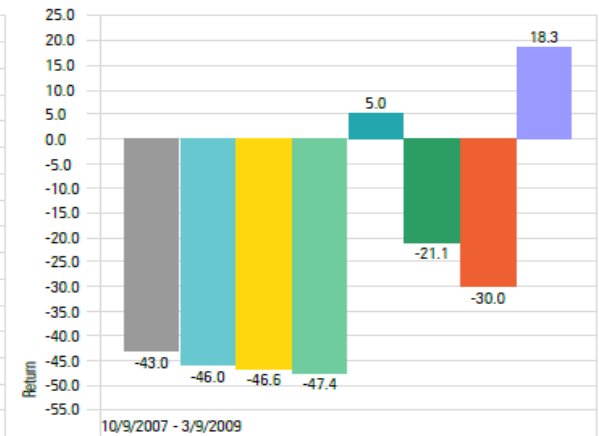
1987 Flash Crash



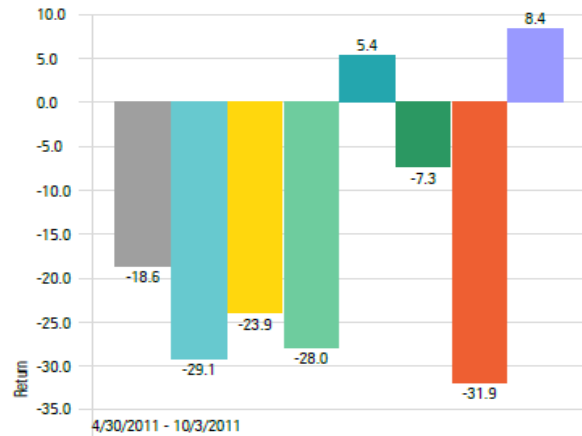
Tech Bubble



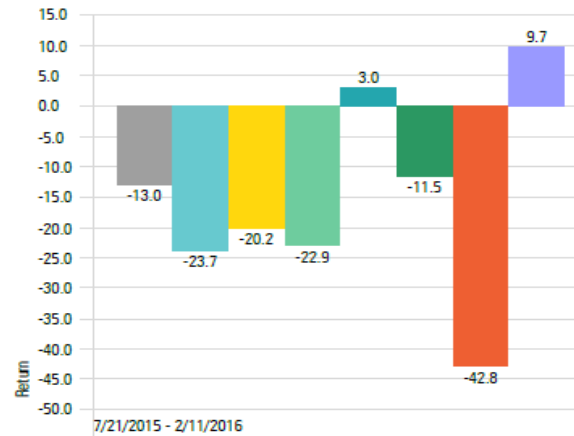
Global Financial Crisis



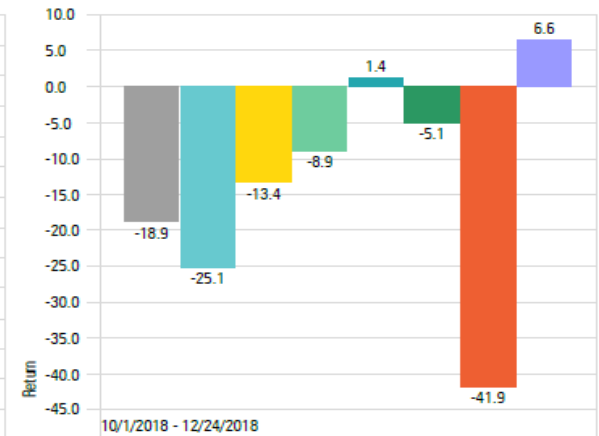
Euro Crisis



Global Slowdown



Growth Slowdown



■ S&P 500 Index ■ Russell 2000 Index ■ MSCI EAFE Index ■ MSCI EM Index ■ Bbg U.S. Agg Bond Index ■ Bbg U.S. HY Bond Index ■ S&P GSCI Crude Oil ■ Gold

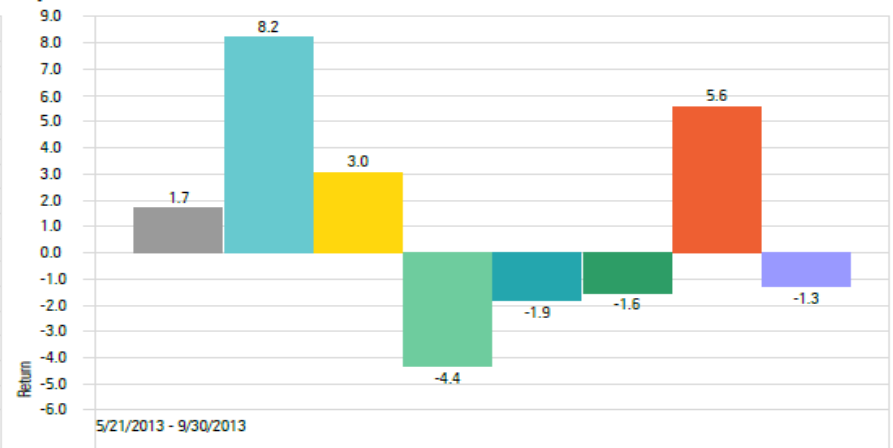
Source: Morningstar

Case study 2: gold returns during significant market events

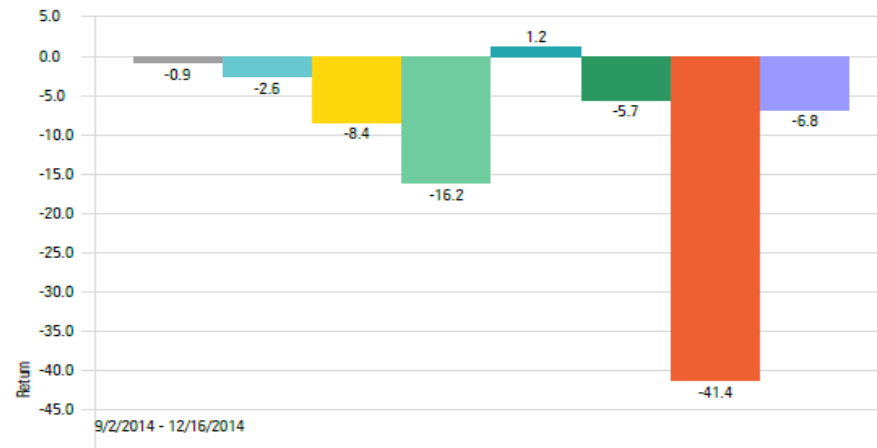
Global Financial Crisis



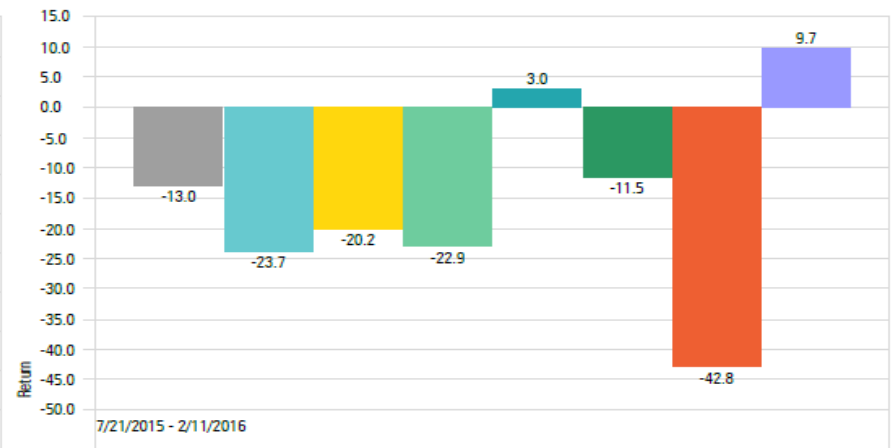
Taper Tantrum



Oil Crash



Global Slowdown



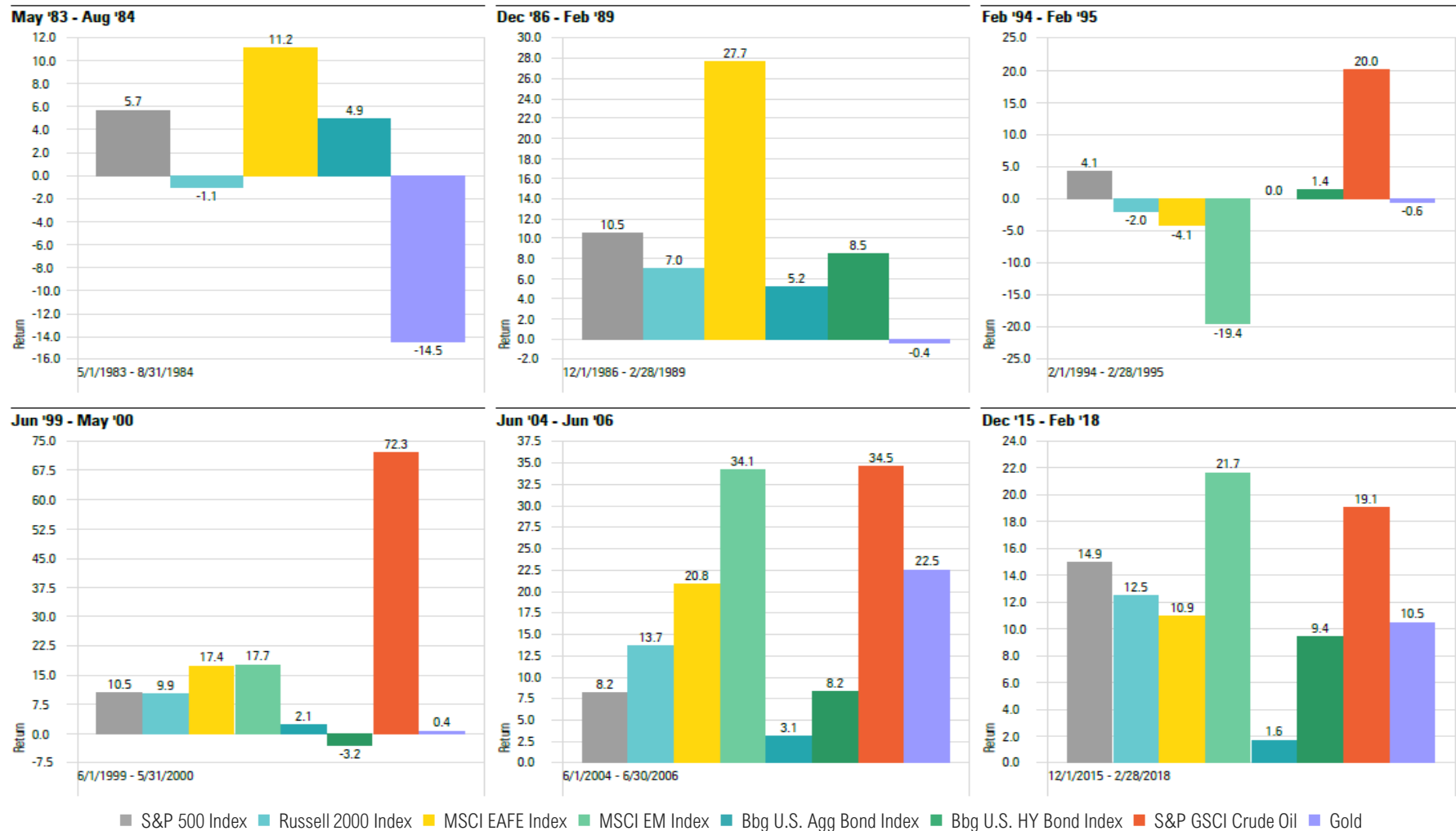
■ S&P 500 Index ■ Russell 2000 Index ■ MSCI EAFE Index ■ MSCI EM Index ■ Bbg U.S. Agg Bond Index ■ Bbg U.S. HY Bond Index ■ S&P GSCI Crude Oil ■ Gold

Source: Morningstar

Gold Market Trends

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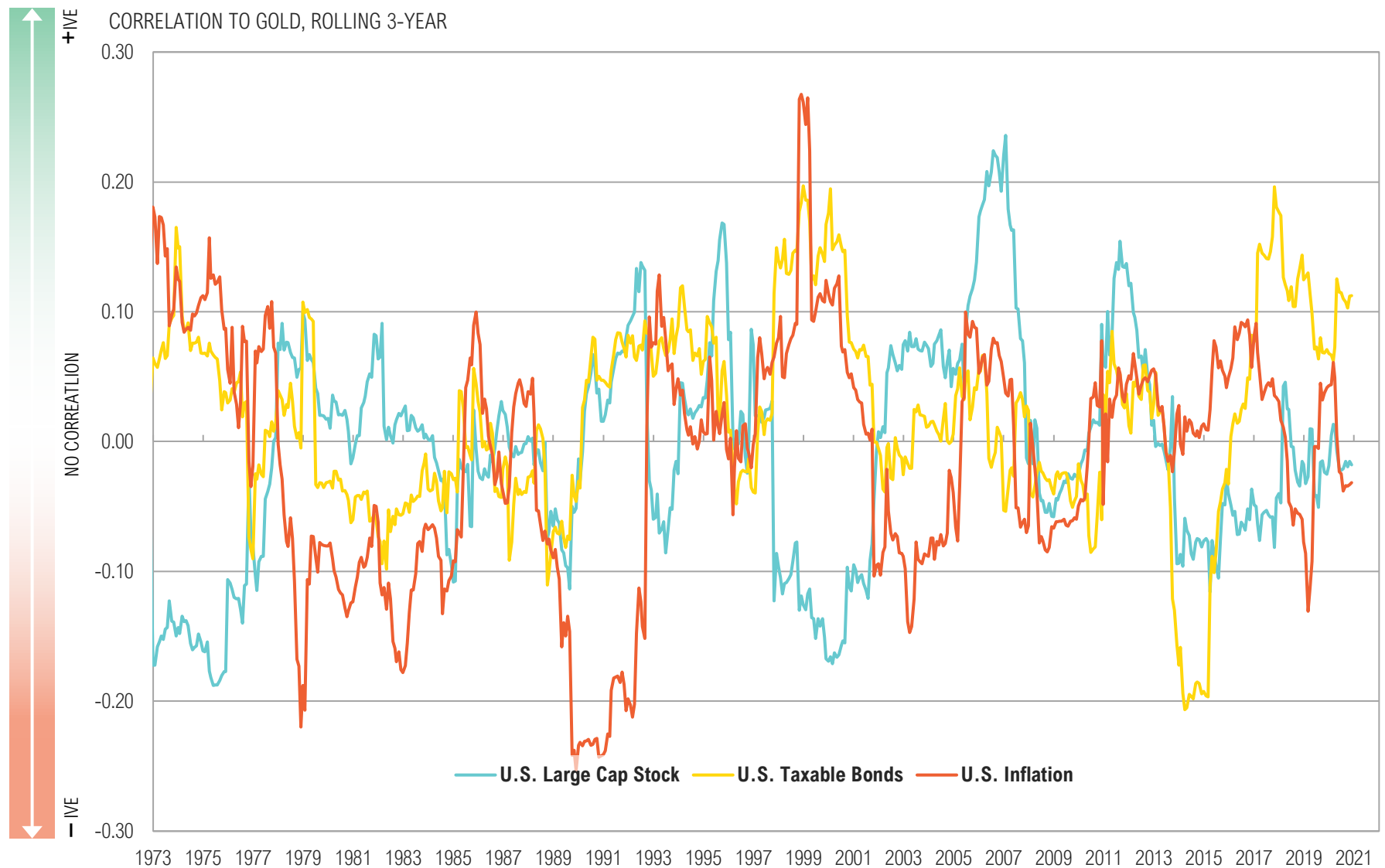
Case study 3: gold returns during periods of rising inflation



Source: Morningstar

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Source: Morningstar

APPENDIX: CORRELATION MATRIX

Asset Class	U.S. Large Cap Stocks	U.S. Small & Micro Cap	Intl Dev Large Cap Stocks	Intl Dev Small & Micro Stocks	Emerging & Frontier Mkt Stocks	Global Stocks	Private Equity	Venture Capital	U.S. Inter-Term Muni Bonds	U.S. Short-Term Muni Bonds	U.S. High Yield Muni Bonds	U.S. Inter-Term Bonds	U.S. Short-Term Bonds	U.S. High Yield Bonds	U.S. Bank Loans	Intl Developed Bonds	Emerging & Frontier Mkt Bonds	Public BDCs	U.S. REITs	Ex U.S. Real Estate Securities	Private Real Estate	Commodity Futures	Midstream Energy	Gold	Long/Short Equity	Managed Futures	Relative Value	Closed-End Funds	Insurance-Linked Securities	Digital Assets	Cash/Ultra-Short Bonds	U.S. Inflation
U.S. Large Cap Stocks	1.00																															
U.S. Small & Micro Cap	0.87	1.00																														
Intl Dev Large Cap Stocks	0.85	0.76	1.00																													
Intl Dev Small & Micro Stocks	0.85	0.79	0.95	1.00																												
Emerging & Frontier Mkt Stocks	0.71	0.66	0.81	0.80	1.00																											
Global Stocks	0.96	0.85	0.95	0.93	0.84	1.00																										
Private Equity	0.25	0.22	0.23	0.25	0.37	0.28	1.00																									
Venture Capital	0.15	0.18	0.12	0.14	0.29	0.18	0.85	1.00																								
U.S. Inter-Term Muni Bonds	0.06	-0.01	0.14	0.17	0.18	0.12	0.02	0.04	1.00																							
U.S. Short-Term Muni Bonds	0.13	0.04	0.16	0.20	0.18	0.17	0.04	0.03	0.82	1.00																						
U.S. High Yield Muni Bonds	0.19	0.17	0.25	0.28	0.30	0.25	0.00	0.01	0.78	0.56	1.00																					
U.S. Inter-Term Bonds	-0.01	-0.11	0.02	0.02	0.13	0.03	0.02	0.02	0.73	0.51	0.54	1.00																				
U.S. Short-Term Bonds	-0.37	-0.43	-0.31	-0.37	-0.19	-0.34	-0.11	-0.06	0.34	0.29	0.05	0.65	1.00																			
U.S. High Yield Bonds	0.76	0.73	0.77	0.77	0.75	0.81	0.32	0.23	0.36	0.36	0.48	0.25	-0.28	1.00																		
U.S. Bank Loans	0.65	0.68	0.62	0.69	0.59	0.68	0.24	0.17	0.24	0.34	0.48	0.08	-0.44	0.87	1.00																	
Intl Developed Bonds	0.29	0.19	0.44	0.45	0.57	0.42	0.20	0.17	0.43	0.37	0.36	0.54	0.25	0.46	0.29	1.00																
Emerging & Frontier Mkt Bonds	0.57	0.48	0.66	0.64	0.69	0.66	0.17	0.13	0.60	0.52	0.67	0.49	-0.08	0.82	0.71	0.61	1.00															
Public BDCs	0.76	0.83	0.71	0.74	0.58	0.76	0.22	0.13	0.18	0.25	0.35	0.06	-0.40	0.80	0.83	0.26	0.64	1.00														
U.S. REITs	0.66	0.63	0.58	0.58	0.51	0.65	0.19	0.17	0.33	0.22	0.48	0.39	-0.09	0.66	0.58	0.38	0.63	0.66	1.00													
Ex U.S. Real Estate Securities	0.72	0.64	0.87	0.85	0.85	0.84	0.21	0.13	0.26	0.25	0.40	0.22	-0.16	0.78	0.63	0.61	0.77	0.70	0.73	1.00												
Private Real Estate	0.05	0.03	0.13	0.11	0.22	0.11	0.71	0.74	0.05	0.00	0.00	0.00	-0.07	0.17	0.08	0.18	0.12	0.01	0.10	0.17	1.00											
Commodity Futures	0.49	0.48	0.54	0.54	0.58	0.56	0.32	0.21	0.08	0.11	0.20	-0.09	-0.24	0.61	0.54	0.38	0.46	0.48	0.31	0.59	0.20	1.00										
Midstream Energy	0.70	0.68	0.63	0.64	0.56	0.70	0.34	0.23	0.16	0.21	0.24	0.07	-0.34	0.73	0.75	0.26	0.54	0.79	0.55	0.62	0.12	0.49	1.00									
Gold	0.10	0.02	0.15	0.19	0.35	0.18	0.20	0.15	0.35	0.35	0.23	0.43	0.33	0.27	0.13	0.62	0.37	0.07	0.12	0.26	0.05	0.37	0.09	1.00								
Long/Short Equity	0.88	0.90	0.87	0.90	0.81	0.93	0.31	0.22	0.07	0.17	0.30	-0.02	-0.40	0.81	0.75	0.35	0.61	0.81	0.59	0.81	0.10	0.61	0.75	0.18	1.00							
Managed Futures	0.33	0.23	0.29	0.27	0.29	0.33	0.17	0.11	0.25	0.23	0.26	0.32	0.15	0.24	0.14	0.24	0.28	0.22	0.29	0.32	0.09	0.19	0.24	0.33	0.37	1.00						
Relative Value	0.70	0.73	0.74	0.77	0.69	0.76	0.24	0.17	0.28	0.33	0.55	0.07	-0.45	0.87	0.92	0.32	0.75	0.84	0.59	0.77	0.09	0.61	0.77	0.12	0.86	0.27	1.00					
Closed-End Funds	0.85	0.79	0.84	0.85	0.76	0.89	0.27	0.16	0.33	0.33	0.46	0.21	-0.31	0.88	0.81	0.43	0.77	0.86	0.75	0.83	0.09	0.57	0.79	0.21	0.87	0.34	0.86	1.00				
Insurance-Linked Securities	0.17	0.12	0.15	0.18	0.19	0.17	0.02	0.01	0.13	0.17	0.41	0.04	-0.44	0.60	0.58	0.22	0.51	0.51	0.45	0.53	-0.02	0.46	0.40	0.17	0.49	0.06	0.58	0.52	1.00			
Digital Assets	0.26	0.26	0.34	0.34	0.23	0.30	0.30	0.30	0.12	0.08	0.19	0.01	-0.16	0.30	0.30	0.17	0.23	0.36	0.29	0.34	-0.08	0.25	0.37	0.06	0.34	0.29	0.36	0.34	0.06	1.00		
Cash/Ultra-Short Bonds	-0.17	-0.21	-0.16	-0.21	-0.11	-0.16	-0.12	-0.07	0.00	0.11	-0.08	0.16	0.45	-0.18	-0.24	0.04	-0.12	-0.22	-0.14	-0.10	-0.13	-0.10	-0.21	0.12	-0.22	-0.03	-0.25	-0.19	-0.20	-0.27	1.00	
U.S. Inflation	0.06	0.03	0.06	0.09	0.05	0.07	0.01	-0.01	-0.02	0.04	0.17	-0.13	-0.10	0.11	0.15	0.04	0.06	0.07	0.01	0.02	-0.05	0.31	0.03	0.02	0.14	-0.05	0.22	0.11	-0.07	0.24	0.00	1.00

Source: Bloomberg, Morningstar, Cambridge Associates, SpringTide calculations.

*Correlations for asset classes with less than 10 years of benchmark data are calculated since inception.

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