



Market Outlook
Whac-A-Mole
Q4, 2022

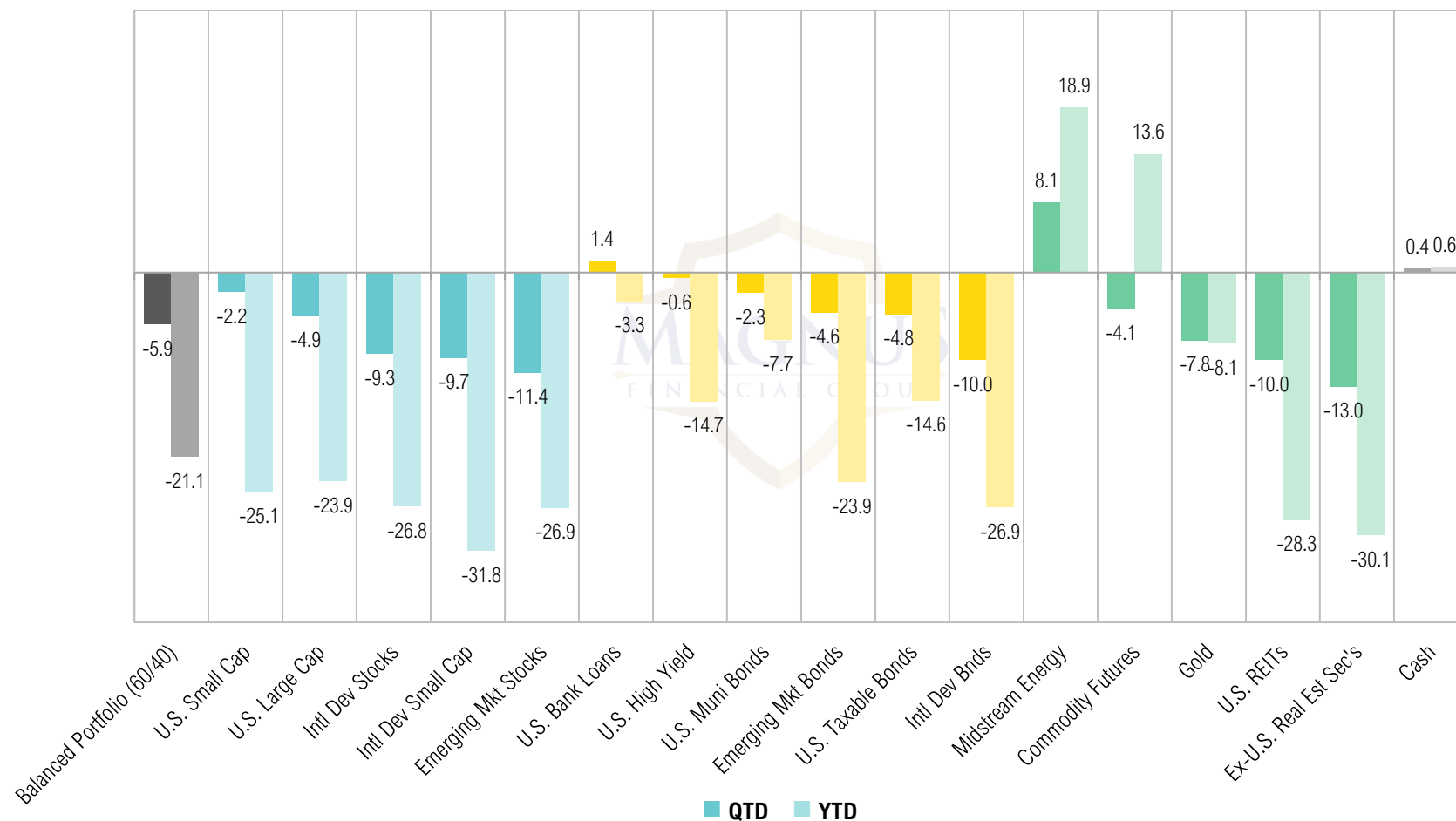


When inflation is low, you feel that you know more about the future, and are much more willing to take risks.

– Peter Bernstein, Economist & Author of *Against The Gods*



➤ The third quarter was unusually challenging for U.S. investors as both U.S. large cap stocks (-4.9%) and bonds (-4.8%) declined together



Source: Bloomberg. See appendix for asset class and index definitions.

© 2022 Magnus Financial Group LLC. All Rights Reserved

Key themes for 2023

Era of stubbornly higher inflation – higher inflation underpinned by structural constrained labor, housing and energy markets; increased volatility due to stop-and-start policy leading to bouts of disinflation like 1970s.

Structurally lower real growth, with potential stagflation – inflation erodes real growth; high debt levels, poor demographics and sustained deficits will continue to impede growth in Europe, Japan. Based on the shape of the yield curve and recession models, a recession in 2023 is base case.

Consumers spending themselves into a wall – real incomes lagging inflation; U.S. consumer is incrementally exhausting COVID stimulus, increasingly relying on credit to maintain spending; combined hit from slowing economy and rising interest rates spells trouble for 1H22.

Policy will be stop-and-start but mostly restrictive – mostly constrained but potentially also quite contradictory as rolling ad hoc fiscal (and monetary) bailouts frustrates attempts to rein in inflation.

Be patient, wait for pricing to improve or central banks to pivot – bear markets don't bottom until equity valuations get cheap and/or central banks pivot (pause $\neq$ pivot); market has never bottomed ahead of official start of recession and recession unlikely to start until labor market cracks. This time may be different, but the macro backdrop is challenging enough to err on the side of caution.

Tilt to quality and cash flow – the lesson from prior bubble unwinds is patience. While we are excited about the potential opportunity set in equities, we don't think we are there yet; prefer to “hide out” in areas with strong balance sheets and highest cash flow yields (quality, dividends).

Maintain U.S. emphasis until it is obvious – Foreign stocks have been a value trap for many years; maintain underweights but consider adding to emerging markets when Fed is forced to pivot.

Key themes for 2023 cont.

Paid to wait – finally getting paid to wait; *better* yields on short-term invest. grade bonds reduces the risk of a wait-and-see approach to the rapidly evolving macro, policy and market backdrop, if paired with policy hedges.

Keep duration low – fighting the temptation to increase bond duration because of concerns around path of inflation, Fed's resolve once labor market breaks or U.S. credit event but maintaining modest duration barbell and gold allocation as a hedge against a premature pivot.

Budding opportunity in high yield bonds, other credit – high yield bonds near compelling level on an absolute & relative basis, except in the tails (right tail = early pivot, inflation; left tail = no pivot, severe recession)

Positive-carry policy hedge – midstream energy, gold miners and commodity futures now have positive carry and may provide a hedge if the Fed pivots early. Conversely, these hedges may underperform in a severe recession.

Opportunities emerging in real estate – maintain underweight (held since pandemic demand shock), waiting for dust to settle on migration, demographic, social and now recession-related disruption; expect to deploy in 2023

Volatility means opportunity – improved opportunity set for value-biased active managers if volatility persists and higher cost of capital rewards nimble fundamental managers.

Opportunity for dynamic asset allocation and active management – a period of stop-and-start growth, inflation, policy and trends in asset markets should benefit dynamic over static asset allocations.



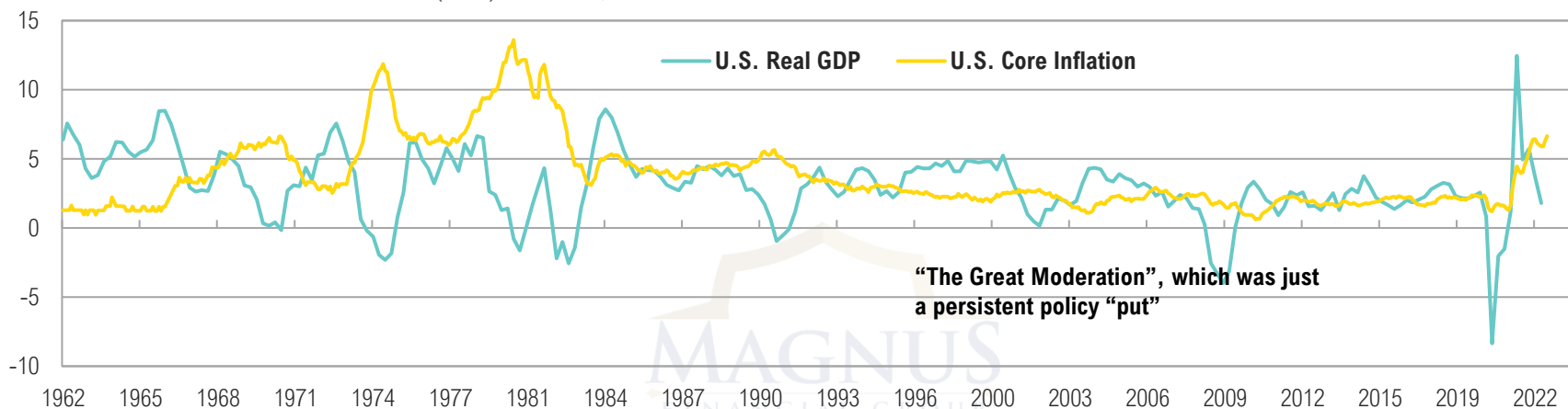
For the first time in decades, we have seen historic job growth, and workers have begun to see wage gains, gains that your prior actions to stabilize the economy helped achieve. Yet, many workers and their families are struggling under the weight of inflation. As you explained in your September 21, 2022, FOMC remarks, “If your family is one where you spend most of your paycheck, every paycheck cycle, on gas, food, transportation, clothing, basics of life, and prices go up the way they’ve been going up, you’re in trouble right away.” High inflation affecting household needs such as food, healthcare, and transportation strains middle- and lower-income budgets. The Federal Reserve’s tools work to lower inflation by reducing demand for economic activities sensitive to interest rates. However, a family’s “pocketbook” needs have little to do with interest rates, and potential job losses brought about by monetary over-tightening will only worsen these matters for the working class.

For working Americans who already feel the crush of inflation, job losses will make it much worse. We can’t risk the livelihoods of millions of Americans who can’t afford it. I ask that you don’t forget your responsibility to promote maximum employment and that the decisions you make at the next FOMC meeting reflect your commitment to the dual mandate.

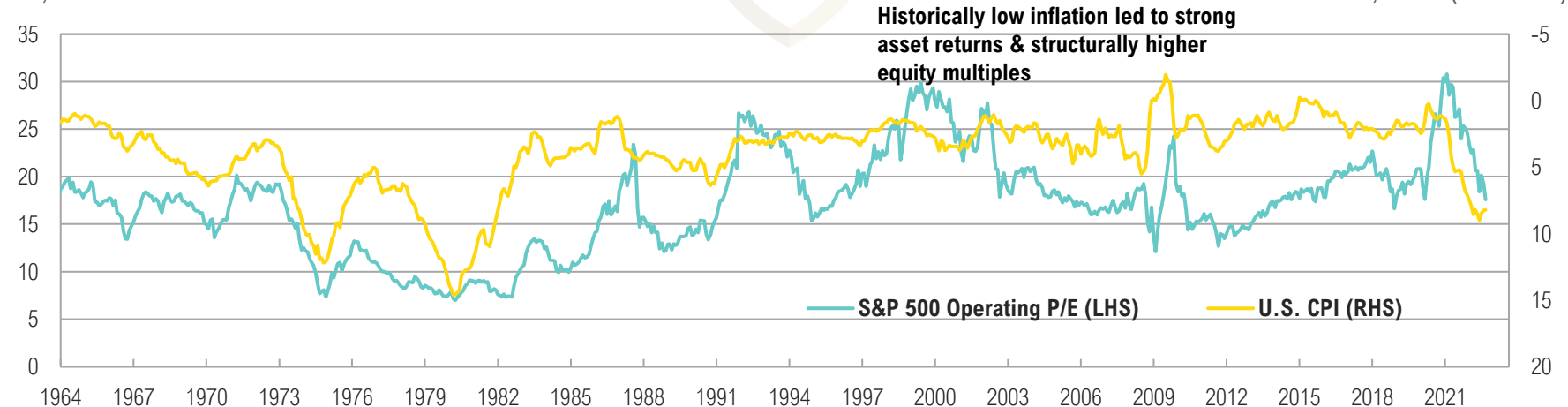
– Sherrod Brown, Chairman U.S. Senate Committee on Banking, Housing & Urban Affairs
(October 25, 2022 Letter to Jerome Powell)

With the benefit of hindsight, the “great moderation” was just a persistent policy put resulting from historically low inflation

U.S. REAL GROSS DOMESTIC PRODUCT (GDP) GROWTH, Y/Y %



P/E, TTM

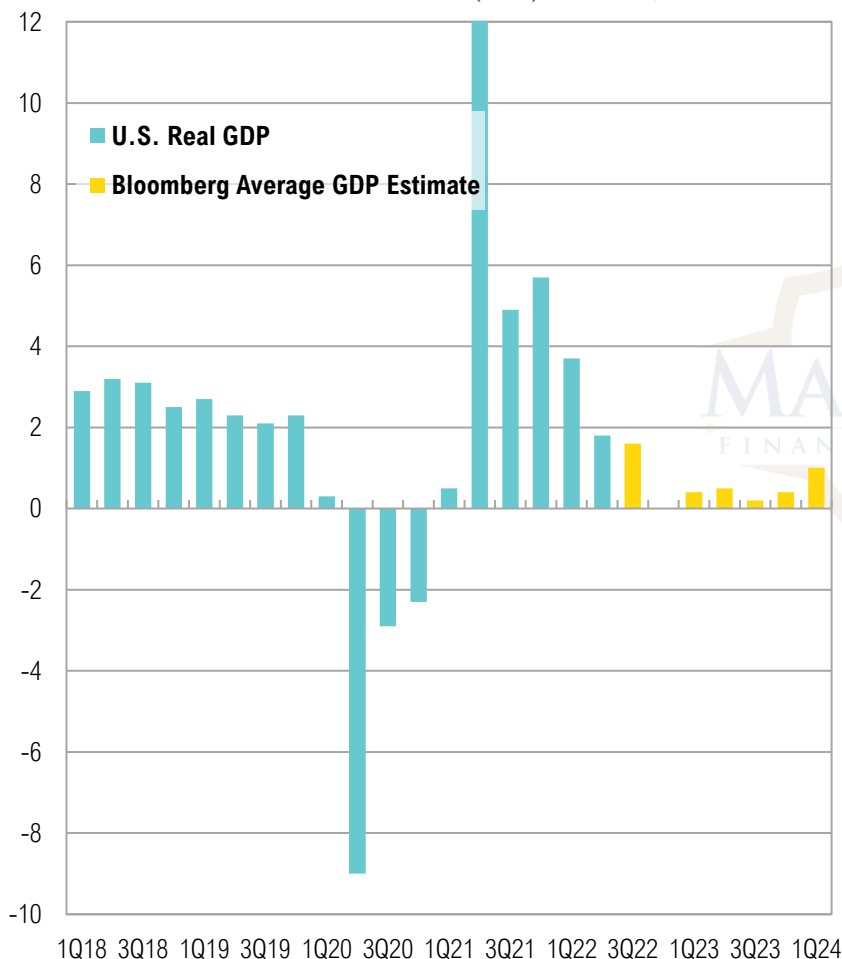


Source: Bloomberg, FRED, Atlanta Fed

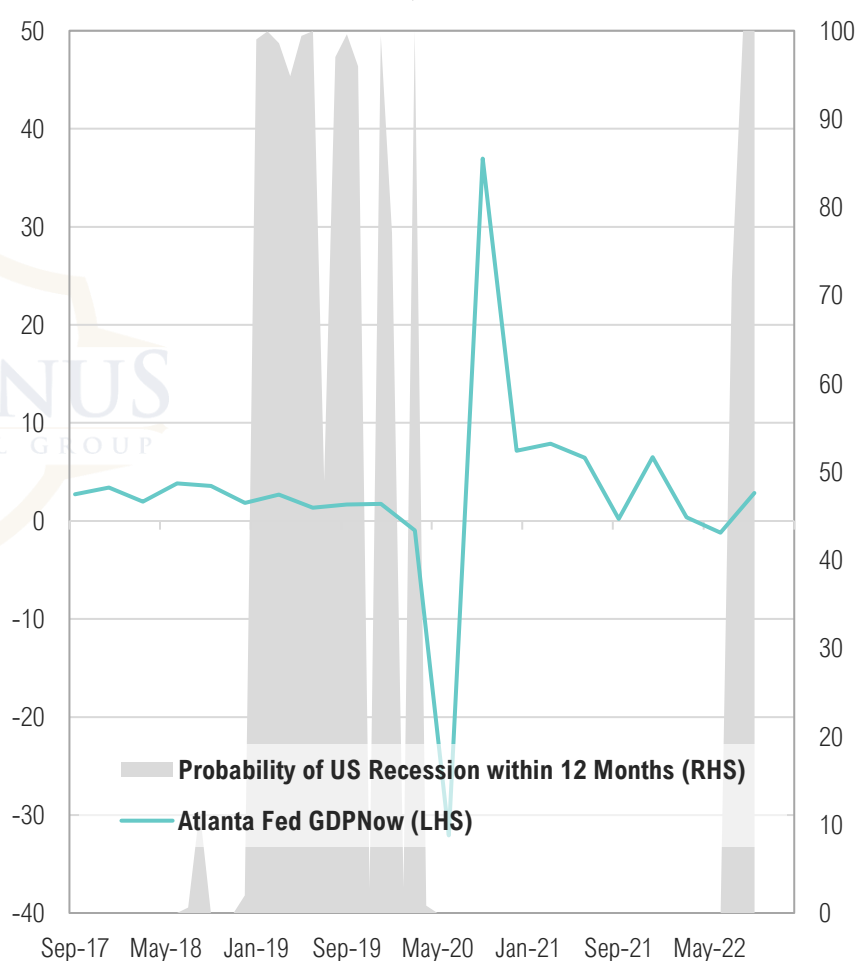
© 2022 Magnus Financial Group LLC. All Rights Reserved

Most economic models suggest the potential for recession next year is high, arguably assured

U.S. REAL GROSS DOMESTIC PRODUCT (GDP) GROWTH, Y/Y %



ATLANTA FED GDPNOW ESTIMATE, Y/Y % RECESSON PROBABILITY, %

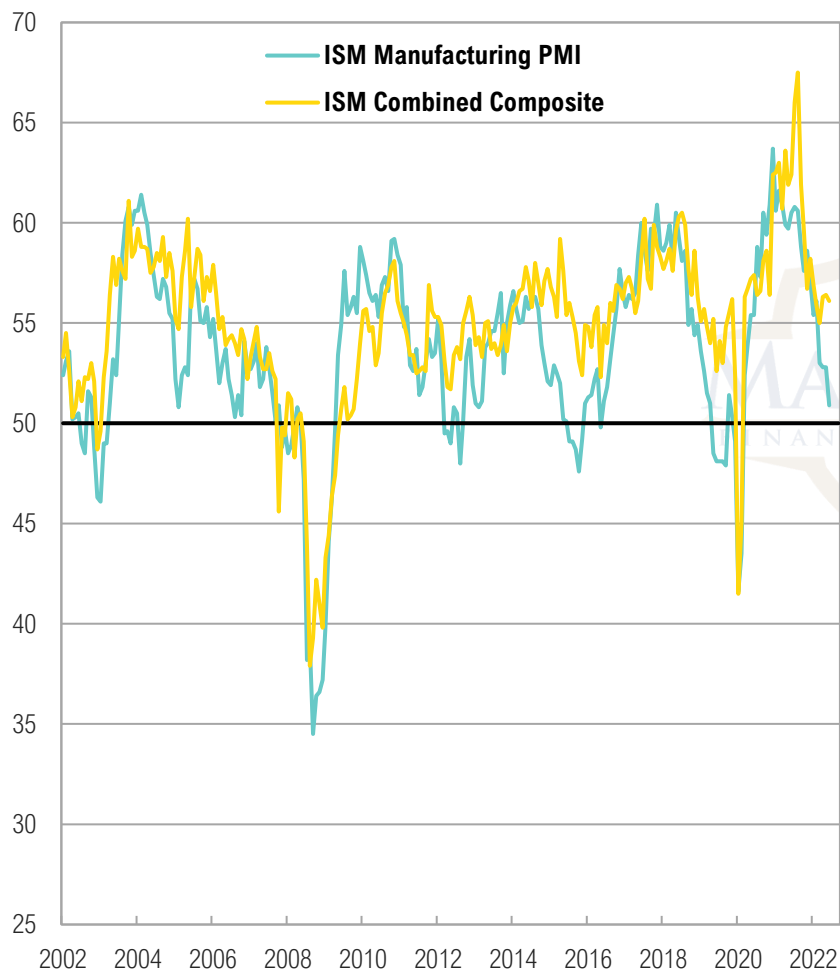


Source: Bloomberg, FRED, Atlanta Fed

© 2022 Magnus Financial Group LLC. All Rights Reserved

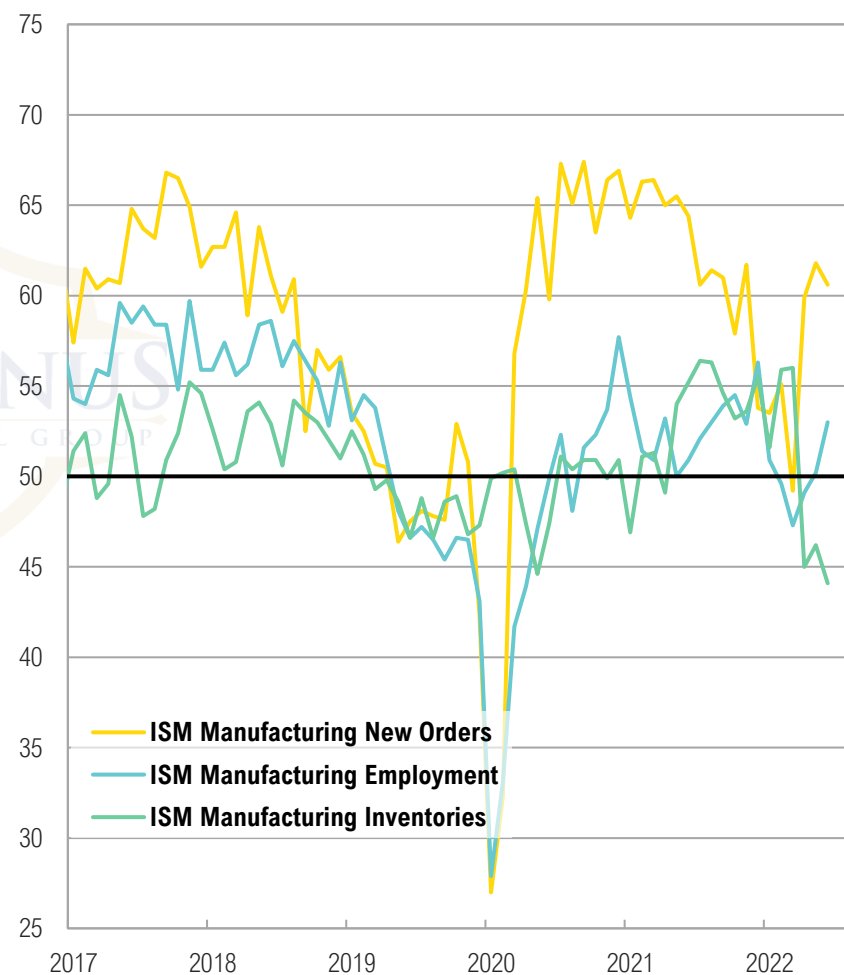
ISM Manufacturing PMI has rolled over; retailers have seen a dramatic increase in inventories; employment expanding in both sectors

ISM MANUFACTURING PMI



Source: Bloomberg, ISM

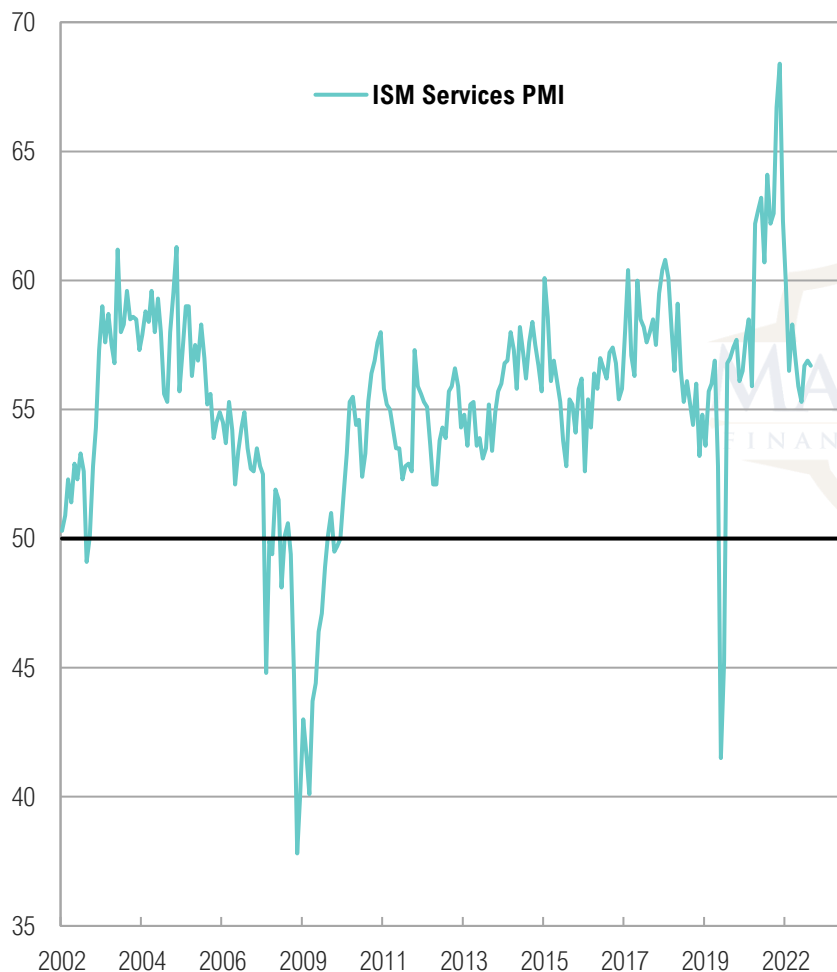
ISM NEW ORDERS, PRODUCTION AND INVENTORIES INDICES



© 2022 Magnus Financial Group LLC. All Rights Reserved

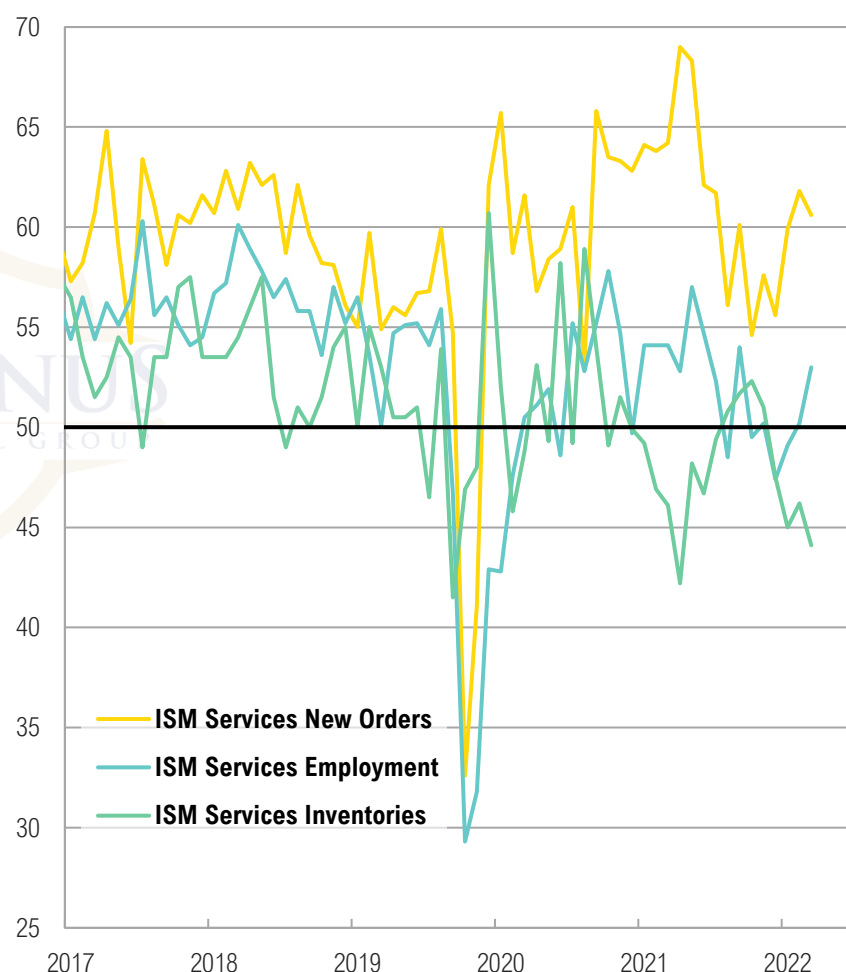
ISM services has also rolled over but in much healthier shape as consumer spending shifts from goods to services; employment expanding in both sectors

ISM SERVICES PMI



Source: Bloomberg, ISM

ISM SERVICES NEW ORDERS, EMPLOYMENT AND INVENTORIES INDICES



© 2022 Magnus Financial Group LLC. All Rights Reserved

Global manufacturing activity dropped in September as emerging market activity contracted while developed market activity stalled further

MANUFACTURING PMIs BY COUNTRY* & REGION, 2017 - CURRENT

	2019				2020												2021												2022									
	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
Global	49.8	50.3	50.1	50.3	47.1	47.3	38.6	42.4	48.0	50.6	51.8	52.4	53.1	53.8	53.8	53.6	54.0	55.0	55.8	56.0	55.5	55.4	54.1	54.1	54.2	54.2	54.3	53.2	53.7	52.9	52.3	52.3	52.2	51.1	50.3	49.8		
Developed	48.6	49.5	49.1	49.8	49.6	45.9	38.8	39.5	46.4	49.8	51.2	52.1	52.8	53.8	54.8	55.2	56.5	58.5	59.3	59.8	59.5	59.8	58.3	57.1	56.6	56.9	56.6	56.3	56.6	56.5	56.3	55.0	52.5	51.3	50.3			
Emerging	51.0	51.0	51.0	51.0	44.8	49.1	42.7	45.4	49.6	51.4	52.5	52.8	53.4	53.9	52.8	52.1	51.6	51.3	52.2	52.0	51.2	50.6	49.6	50.8	51.6	51.2	51.7	50.0	50.9	49.2	48.1	49.5	51.7	50.8	50.2	49.4		
Developed																																						
U.S.	51.3	52.6	52.4	51.9	50.7	48.5	36.1	39.8	49.8	50.9	53.1	53.2	53.4	56.7	57.1	59.2	58.6	59.1	60.5	62.1	62.1	63.4	61.1	60.7	58.4	58.3	57.7	55.5	57.3	58.8	59.2	57.0	52.7	52.2	51.5	52.0		
Canada	51.2	51.4	50.4	50.6	51.8	46.1	33.0	40.6	47.8	52.9	55.1	56.0	55.5	55.8	57.9	54.4	54.8	58.5	57.2	57.0	56.5	56.2	57.2	57.0	57.7	57.2	56.5	56.2	56.6	58.9	56.2	56.8	54.6	52.5	48.7	49.8		
Japan	48.4	48.9	48.4	48.8	47.8	44.8	41.9	38.4	40.1	45.2	47.2	47.7	48.7	49.0	50.0	49.8	51.4	52.7	53.6	53.0	52.4	53.0	52.7	51.5	53.2	54.5	54.3	55.4	52.7	54.1	53.5	53.3	52.7	52.1	51.5	50.8		
UK	49.6	48.9	47.5	50.0	51.7	47.8	32.6	40.7	50.1	53.3	55.2	54.1	53.7	55.6	57.5	54.1	55.1	58.9	60.9	65.6	63.9	60.4	60.3	57.1	57.8	58.1	57.9	57.3	58.0	55.2	55.8	54.6	52.8	52.1	47.3	48.4		
Eurozone	45.9	46.9	46.3	47.9	49.2	44.5	33.4	39.4	47.4	51.8	51.7	53.7	54.8	53.8	55.2	54.8	57.9	62.5	62.9	63.1	63.4	62.8	61.4	58.6	58.3	58.4	58.0	58.7	58.2	56.5	55.5	54.6	52.1	49.8	49.6	48.4		
Germany	42.1	44.1	43.7	45.3	48.0	45.4	34.5	36.6	45.2	51.0	52.2	56.4	58.2	57.8	58.3	57.1	60.7	66.6	66.2	64.4	65.1	65.9	62.6	58.4	57.8	57.4	57.4	59.8	58.4	56.9	54.6	54.8	52.0	49.3	49.1	47.8		
France	50.7	51.7	50.4	51.1	49.8	43.2	31.5	40.6	52.3	52.4	49.8	51.2	51.3	49.6	51.1	51.6	56.1	59.3	58.9	59.4	59.0	58.0	57.5	55.0	53.6	55.9	55.6	55.5	57.2	54.7	55.7	54.6	51.4	49.5	50.6	47.7		
Italy	47.7	47.6	46.2	48.9	48.7	40.3	31.1	45.4	47.5	51.9	53.1	53.2	53.8	51.5	52.8	55.1	56.9	59.8	60.7	62.3	62.2	60.3	60.9	59.7	61.1	62.8	62.0	58.3	58.3	55.8	54.5	51.9	50.9	48.5	48.0	48.3		
Spain	46.8	47.5	47.4	48.5	50.4	45.7	30.8	38.3	49.0	53.5	49.9	50.8	52.5	49.8	51.0	49.3	52.9	56.9	57.7	59.4	60.4	59.0	59.5	58.1	57.4	57.1	56.2	56.2	56.9	54.2	53.3	53.8	52.6	48.7	49.9	49.0		
Netherlands	50.3	49.6	48.3	49.9	52.9	50.5	41.3	40.5	45.2	47.9	52.3	52.5	50.4	54.4	58.2	58.8	59.6	64.7	67.2	69.4	68.8	67.4	65.8	62.0	62.5	60.7	58.7	60.1	60.6	58.4	59.9	57.8	55.9	54.5	52.6	49.0		
Australia	50.0	49.9	49.2	49.6	50.2	49.7	44.1	44.0	51.2	54.0	53.6	55.4	54.2	55.8	55.7	57.2	56.9	56.8	59.7	60.4	58.6	56.9	52.0	56.8	58.2	59.2	57.7	55.1	57.0	57.7	58.8	55.7	56.2	55.7	53.8	53.5		
Greece	53.5	54.1	53.9	54.4	56.2	42.5	29.0	41.1	49.4	48.6	49.4	50.0	48.7	42.3	46.9	50.0	49.4	51.8	54.4	58.0	58.6	57.4	59.3	58.4	58.9	58.8	59.0	57.9	57.8	54.6	54.8	53.8	51.1	49.1	48.8	49.7		
Emerging																																						
China	51.7	51.8	51.5	51.1	49.3	50.1	49.4	50.7	51.2	52.8	53.1	53.0	53.6	54.9	53.0	51.5	50.9	50.6	51.9	52.0	51.3	50.3	49.2	50.0	50.6	49.9	50.9	49.1	50.4	48.1	46.0	48.1	51.7	50.4	49.5	48.1		
Indonesia	47.7	48.2	49.5	49.3	51.9	45.3	37.6	38.6	39.1	46.9	50.8	47.2	47.8	50.6	51.3	52.2	50.9	53.2	54.6	55.3	53.5	40.1	43.7	52.2	57.2	53.9	53.5	53.7	51.2	51.3	51.9	50.8	50.2	51.3	51.7	53.7		
Korea	48.4	49.4	50.1	49.8	48.7	44.2	41.6	41.3	43.4	46.9	48.5	49.8	51.2	52.9	52.9	53.2	55.3	55.3	54.6	53.7	53.9	53.0	51.2	52.4	50.2	50.9	51.9	52.8	53.8	51.2	52.1	51.8	51.3	49.8	47.6	47.3		
Taiwan	49.8	49.8	50.8	51.8	49.9	50.4	42.2	41.9	46.2	50.6	52.2	55.2	55.1	56.9	59.4	60.2	60.4	60.8	62.4	62.0	57.6	59.7	58.5	54.7	55.2	54.9	55.5	55.1	54.3	54.1	51.7	50.0	49.8	44.6	42.7	42.2		
Brazil	52.2	52.9	50.2	51.0	52.3	48.4	36.0	38.3	51.6	58.2	64.7	64.9	66.7	64.0	61.5	56.5	58.4	52.8	52.3	53.7	56.4	56.7	53.6	54.4	51.7	49.8	49.8	47.8	49.6	52.3	51.8	54.2	54.1	54.0	51.9	51.1		
Mexico	50.4	48.0	47.1	49.0	50.0	47.9	35.0	38.3	38.6	40.4	41.3	42.1	43.6	43.7	42.4	43.0	44.2	45.6	48.4	47.6	48.8	49.6	47.1	48.6	49.3	49.4	49.4	46.1	48.0	49.2	49.3	50.6	52.2	48.5	48.5	50.3		
Russia	47.2	45.6	47.5	47.9	48.2	47.5	31.3	36.2	49.4	48.4	51.1	48.9	46.9	46.3	49.7	50.9	51.5	51.1	50.4	51.9	49.2	47.5	46.5	49.8	51.6	51.7	51.6	51.8	48.6	44.1	48.2	50.8	50.9	50.3	51.7	52.0		
South Africa	49.4	48.6	47.6	48.3	48.4	44.5	35.1	32.5	42.5	44.9	45.3	49.4	51.0	50.3	50.2	50.8	50.2	50.3	53.7	53.2	51.0	46.1	49.9	50.7	48.6	51.7	48.4	50.9	50.9	51.4	50.3	50.7	52.5	52.7	51.7	49.2		
India	50.6	51.2	52.7	55.3	54.5	51.8	37.4	30.8	47.2	46.0	52.0	56.8	58.9	56.3	56.4	57.7	57.5	55.4	55.5	50.8	48.1	55.3	52.3	53.7	55.9	57.6	55.5	54.0	54.9	54.0	54.7	54.6	53.9	56.4	56.2	55.1		
LOWER	HIGHER																																					

LOWER  HIGHER

Source: Bloomberg, Markit

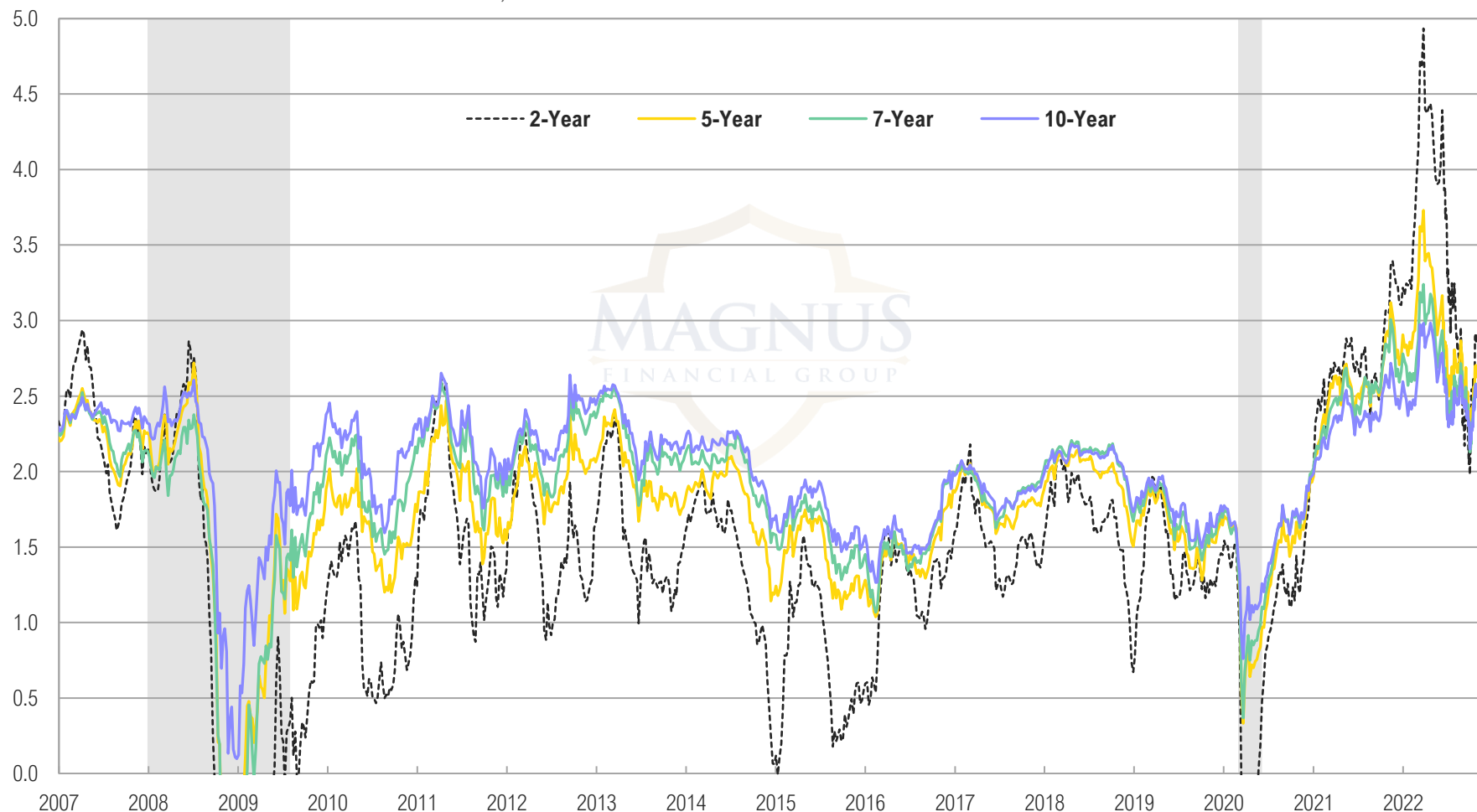
*Some countries might have delayed reporting's.

Q4, 2022 Market Outlook

SEE IMPORTANT DISCLOSURES AT THE END OF THIS PRESENTATION

Intermediate-term inflation expectations have eased after breaking out to multi-decade highs, but they remain tethered to rallies in risky assets, frustrating the Fed

TREASURY IMPLIED INFLATION BREAKEVEN RATES, 2007 - CURRENT



Source: FRED, Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

Pre-Russian invasion, global inflation was already at a decade-high due to lack of investment in commodity supply, labor tightness, rising housing prices, supply chain bottlenecks, etc.

COUNTRY & GDP-WEIGHTED REGIONAL INFLATION

	2012		2013				2014				2015				2016				2017				2018				2019				2020				2021				2022	
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
Global	2.2	2.2	3.0	3.2	3.2	3.1	2.9	3.0	2.5	2.0	1.9	1.9	1.8	2.1	2.0	2.0	2.2	2.2	1.7	2.2	2.4	2.4	2.7	2.5	1.9	2.1	2.1	2.1	3.1	2.5	1.8	2.0	1.3	2.3	3.6	3.7	4.8	6.2	6.6	
Developed	1.8	1.6	1.3	1.6	1.3	1.4	1.3	1.9	1.6	0.8	0.3	0.3	0.1	0.5	0.5	0.6	0.9	1.5	1.8	1.4	1.8	1.8	2.0	2.3	2.1	1.6	1.6	1.4	1.3	1.8	1.2	0.4	0.7	0.6	1.7	3.4	3.9	5.3	6.9	7.4
Emerging	5.1	5.5	5.2	5.4	5.9	5.3	5.0	4.5	3.8	3.6	4.1	4.1	3.9	4.2	3.9	4.0	3.5	3.1	2.7	2.1	2.6	3.3	3.0	3.2	3.2	2.4	2.8	3.0	3.2	4.9	4.3	3.5	3.7	2.4	3.0	3.9	3.3	4.2	5.2	5.7
Developed																																								
U.S.	2.0	1.7	1.5	1.8	1.2	1.5	1.5	2.1	1.7	0.8	-0.1	0.1	0.0	0.7	0.9	1.0	1.5	2.1	2.4	1.6	2.2	2.1	2.4	2.9	2.3	1.9	1.9	1.6	1.7	2.3	1.5	0.6	1.4	1.4	2.6	5.4	5.4	7.0	8.5	8.6
Canada	1.2	0.8	1.0	1.2	1.1	1.2	1.5	2.4	2.0	1.5	1.2	1.0	1.0	1.6	1.3	1.5	1.3	1.5	1.6	1.0	1.6	1.9	2.3	2.5	2.2	2.0	1.9	2.0	1.9	2.2	0.9	0.7	0.5	0.7	2.2	3.1	4.4	4.8	6.7	7.7
Japan	-0.3	-0.1	-0.9	0.2	1.1	1.6	1.6	3.6	3.2	2.4	2.3	0.4	0.0	0.2	0.0	-0.4	-0.5	0.3	0.2	0.4	0.7	1.0	1.1	0.7	1.2	0.3	0.5	0.7	0.2	0.8	0.4	0.1	0.0	-1.2	-0.4	-0.5	0.2	0.8	1.2	2.5
UK	2.4	2.7	2.8	2.7	2.7	2.1	1.7	1.7	1.5	0.9	0.1	0.0	0.0	0.1	0.3	0.4	0.7	1.2	2.1	2.7	2.8	3.0	2.7	2.4	2.5	2.3	1.9	2.0	1.8	1.4	1.7	0.6	0.6	0.5	0.6	2.1	2.8	4.9	6.2	9.1
Eurozone	2.6	2.2	1.7	1.6	1.1	0.8	0.5	0.5	0.3	-0.2	-0.1	0.5	0.2	0.3	0.0	0.0	0.4	1.1	1.5	1.3	1.6	1.3	1.4	2.0	2.1	1.5	1.4	1.3	0.8	1.3	0.7	0.3	-0.3	-0.3	1.3	1.9	3.4	5.0	7.4	8.6
Germany	2.0	2.0	1.3	1.9	1.4	1.4	1.1	1.0	0.9	0.2	0.2	0.9	0.6	0.2	0.3	0.3	0.6	1.5	1.4	1.4	1.7	1.4	1.5	1.9	1.9	1.6	1.3	1.6	1.2	1.5	1.4	0.9	-0.2	-0.3	1.7	2.3	4.1	5.3	7.3	7.6
France	1.9	1.3	1.0	0.9	0.9	0.7	0.6	0.5	0.3	0.1	-0.1	0.3	0.0	0.2	-0.1	0.2	0.4	0.6	1.1	0.7	1.0	1.2	1.6	2.0	2.2	1.6	1.1	1.2	0.9	1.5	0.7	0.2	0.0	0.0	1.1	1.5	2.2	2.8	4.5	5.8
Italy	3.4	2.6	1.8	1.2	0.9	0.6	0.3	0.3	-0.1	0.0	0.0	0.2	0.2	0.1	-0.2	-0.2	0.1	0.5	1.4	1.2	1.3	1.0	0.9	1.4	1.5	1.2	1.1	0.8	0.2	0.5	0.1	-0.4	-1.0	-0.3	0.6	1.3	2.9	4.2	6.8	8.5
Spain	3.4	2.9	2.4	2.1	0.3	0.3	-0.1	0.1	-0.2	-1.0	-0.7	0.1	-0.9	0.0	-0.8	-0.8	0.2	1.6	2.3	1.5	1.8	1.1	1.2	2.3	2.3	1.2	1.3	0.4	0.1	0.8	0.0	-0.3	-0.4	-0.5	1.3	2.7	4.0	6.5	9.8	10.2
Netherlands	2.3	2.9	2.9	2.9	2.4	1.7	0.8	0.9	0.9	0.7	0.4	1.0	0.5	0.7	0.6	0.0	0.1	1.0	1.1	1.1	1.5	1.3	1.0	1.7	1.9	2.0	2.8	2.7	2.6	2.7	1.4	1.6	1.1	1.0	1.9	2.0	2.7	5.7	9.7	8.8
Australia	2.0	2.2	2.5	2.4	2.2	2.7	2.9	3.0	2.3	1.7	1.3	1.5	1.5	1.7	1.3	1.0	1.3	1.5	2.1	1.9	1.8	1.9	1.9	2.1	1.9	1.8	1.3	1.6	1.7	1.8	2.2	-0.3	0.7	0.9	1.1	3.8	3.0	3.5	5.1	6.1
Greece	0.3	0.3	-0.2	-0.3	-1.0	-1.8	-1.5	-1.5	-1.1	-2.5	-1.9	-1.1	-0.8	0.4	-0.7	0.2	-0.1	0.3	1.7	0.9	1.0	1.0	0.2	1.0	1.1	0.6	1.0	0.2	0.2	1.1	0.2	-1.9	-2.3	-2.4	-2.0	0.6	1.9	4.4	8.0	10.5
Emerging																																								
China	1.9	2.5	2.1	2.7	3.1	2.5	2.4	2.3	1.6	1.5	1.4	1.4	1.6	1.6	2.3	1.9	1.9	2.1	0.9	1.5	1.6	1.8	2.1	1.9	2.5	1.9	2.3	2.7	3.0	4.5	4.3	2.5	1.7	0.2	0.4	1.1	0.7	1.5	1.5	2.1
Indonesia	3.8	3.7	5.0	5.4	7.9	8.1	7.3	6.7	4.5	8.4	6.4	7.3	6.8	3.4	4.5	3.5	3.1	3.0	3.6	4.4	3.7	3.6	3.4	3.1	2.9	3.1	2.5	2.8	3.1	2.6	3.0	2.0	1.4	1.7	1.4	1.3	1.6	1.9	2.6	4.4
Korea	2.1	1.4	1.5	1.2	1.0	1.1	1.3	1.7	1.1	0.8	0.5	0.7	0.5	1.1	0.8	0.7	1.3	1.3	2.3	1.8	2.0	1.4	1.2	1.5	2.1	1.3	0.4	0.7	-0.4	0.7	0.8	0.2	0.9	0.6	1.9	2.4	2.4	3.7	4.1	6.0
Taiwan	3.0	1.6	1.4	0.6	0.9	0.3	1.6	1.6	0.7	0.6	-0.6	-0.6	0.3	0.1	2.0	0.9	0.3	1.7	0.2	1.0	0.5	1.2	1.6	1.4	1.7	-0.1	0.6	0.9	0.4	1.1	0.0	-0.8	-0.6	0.1	1.2	1.8	2.6	2.6	3.3	3.4
Brazil	5.3	5.8	6.6	6.7	5.9	5.9	6.2	6.5	6.8	6.4	8.1	8.9	9.5	10.7	9.4	8.8	8.5	6.3	4.6	3.0	2.5	3.0	2.7	4.4	4.5	3.8	4.6	3.4	2.9	4.3	3.3	2.1	3.1	4.5	6.1	8.4	10.3	10.1	11.3	11.7
Mexico	4.8	3.6	4.3	4.1	3.4	4.0	3.8	3.8	4.2	4.1	3.1	2.9	2.5	2.1	2.6	2.5	3.0	3.4	5.4	6.3	6.4	6.8	5.0	4.7	5.0	4.8	4.0	4.0	3.0	2.8	3.3	3.3	4.0	3.2	4.7	5.9	6.0	7.4	7.5	7.7
Russia	6.5	6.6	7.0	6.9	6.1	6.5	7.0	7.8	8.1	11.3	16.9	15.3	15.7	13.0	7.2	7.5	6.4	5.4	4.2	4.3	3.0	2.5	2.4	2.3	3.4	4.3	5.2	4.7	4.0	3.1	2.6	3.2	3.7	4.9	5.8	6.5	7.4	8.4	16.7	17.1
South Africa	5.5	5.7	5.9	5.5	6.0	5.4	6.0	6.6	5.9	5.3	4.0	4.7	4.6	5.2	6.3	6.3	6.1	6.8	6.1	5.1	5.1	4.7	3.8	4.6	4.9	4.5	4.5	4.5	4.1	4.0	4.1	2.2	3.0	3.1	3.2	4.9	5.0	5.9	5.9	6.5
India	9.7	10.5	9.4	9.5	10.5	9.5	8.3	6.8	5.6	4.3	5.3	5.4	4.4	5.6	4.8	5.8	4.4	3.4	3.9	1.5	3.3	5.2	4.3	4.9	3.7	2.1	2.9	3.2	4.0	7.4	5.8	6.2	7.3	4.6	5.5	6.3	4.4	5.7	7.0	7.0

LOWER  HIGHER

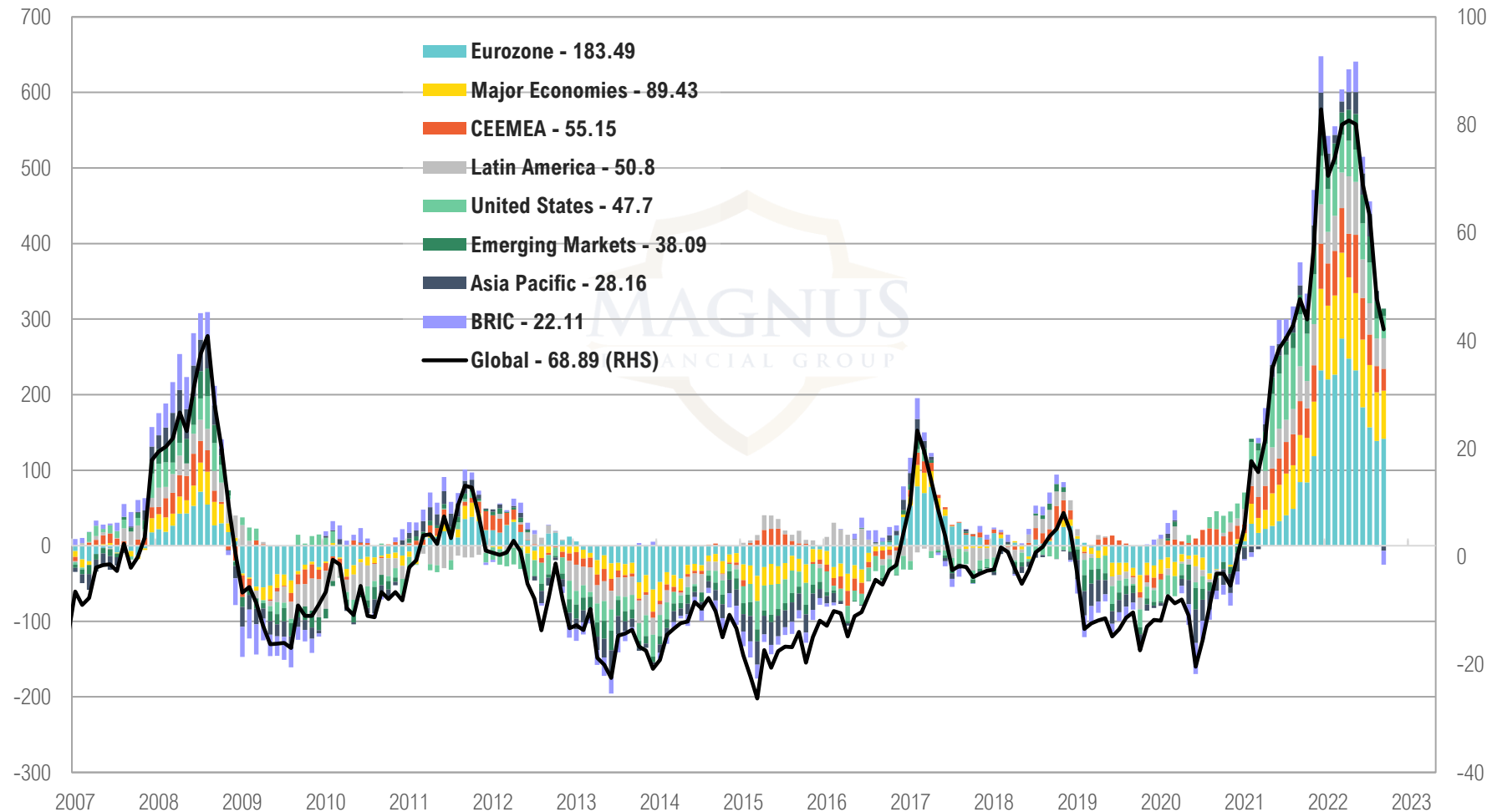
Source: Bloomberg, SpringTide calculations. Global, Developed (DM) and Emerging (EM) inflation numbers are GDP-weighted

© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Inflation Surprise Index has rolled over, but from an extreme level; still surprising forecasts on a global scale, a first since 2008

CITI INFLATION SURPRISE INDEX, AGGREGATED VALUE

CITI INFLATION SURPRISE INDEX, GLOBAL VALUE



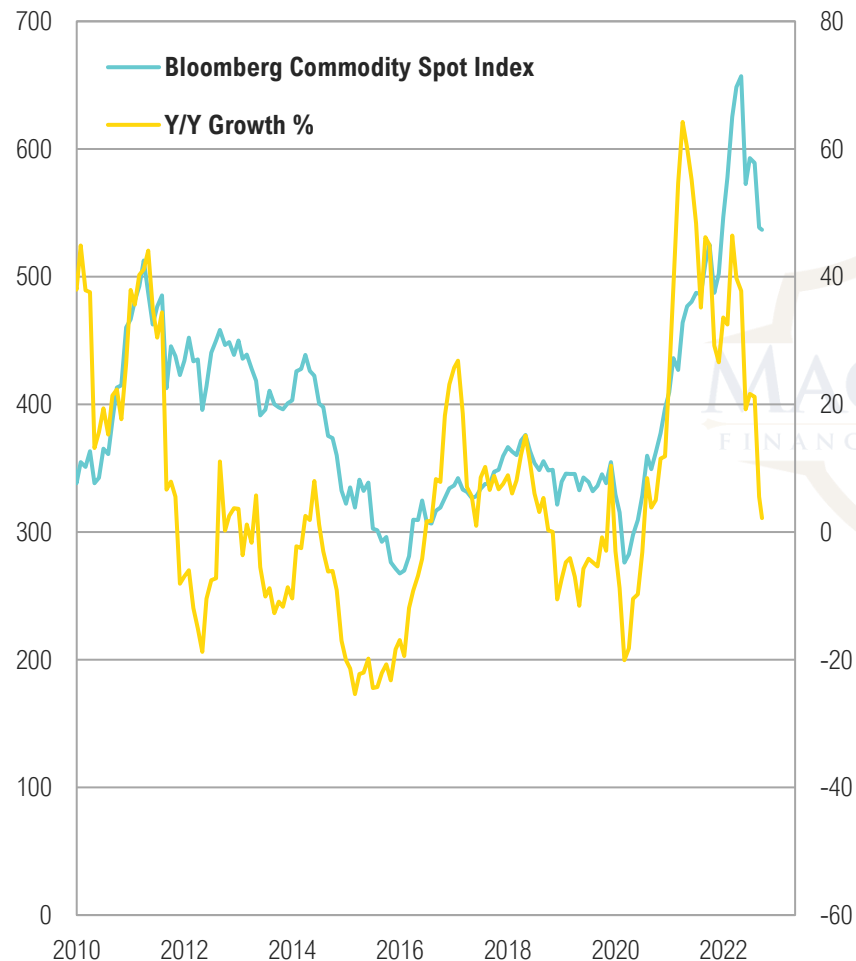
Source: Citi, Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

While commodity prices rolling over will help contain inflation, house prices impact the shelter component of CPI with a 12 to 18-month lag

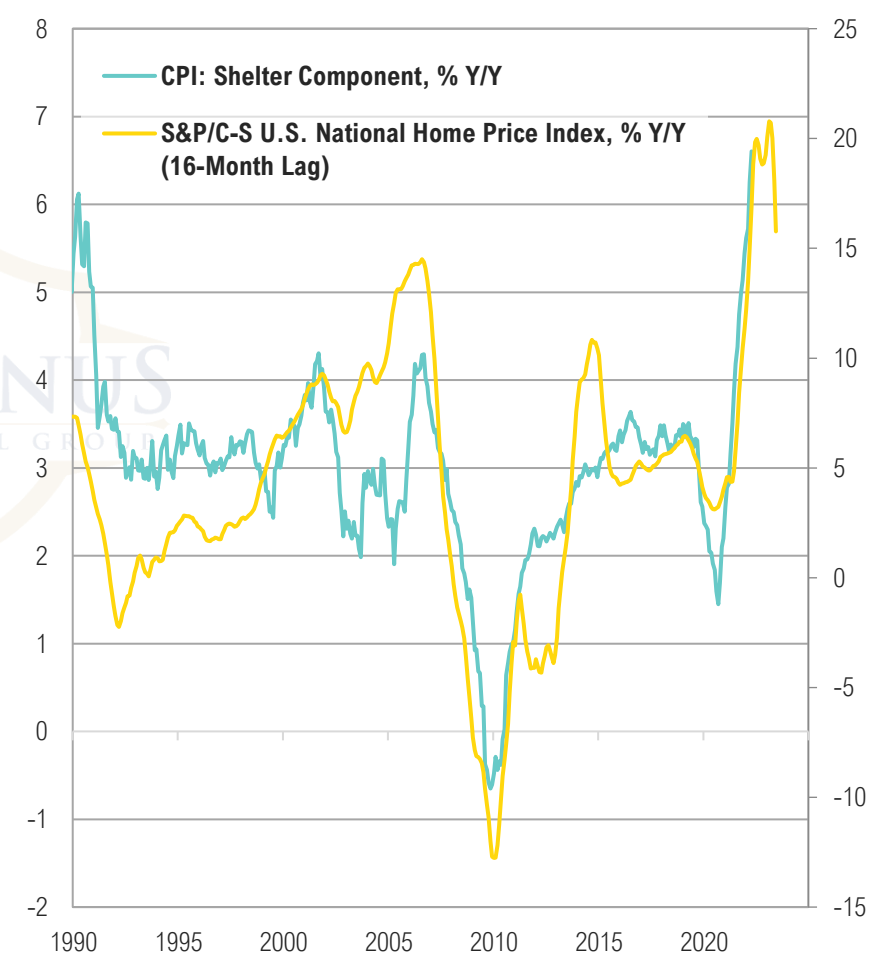
BLOOMBERG COMMODITY SPOT INDEX

Y/Y GROWTH, %



CPI: SHELTER, Y/Y %

U.S. NATIONAL HOME PRICES, Y/Y %



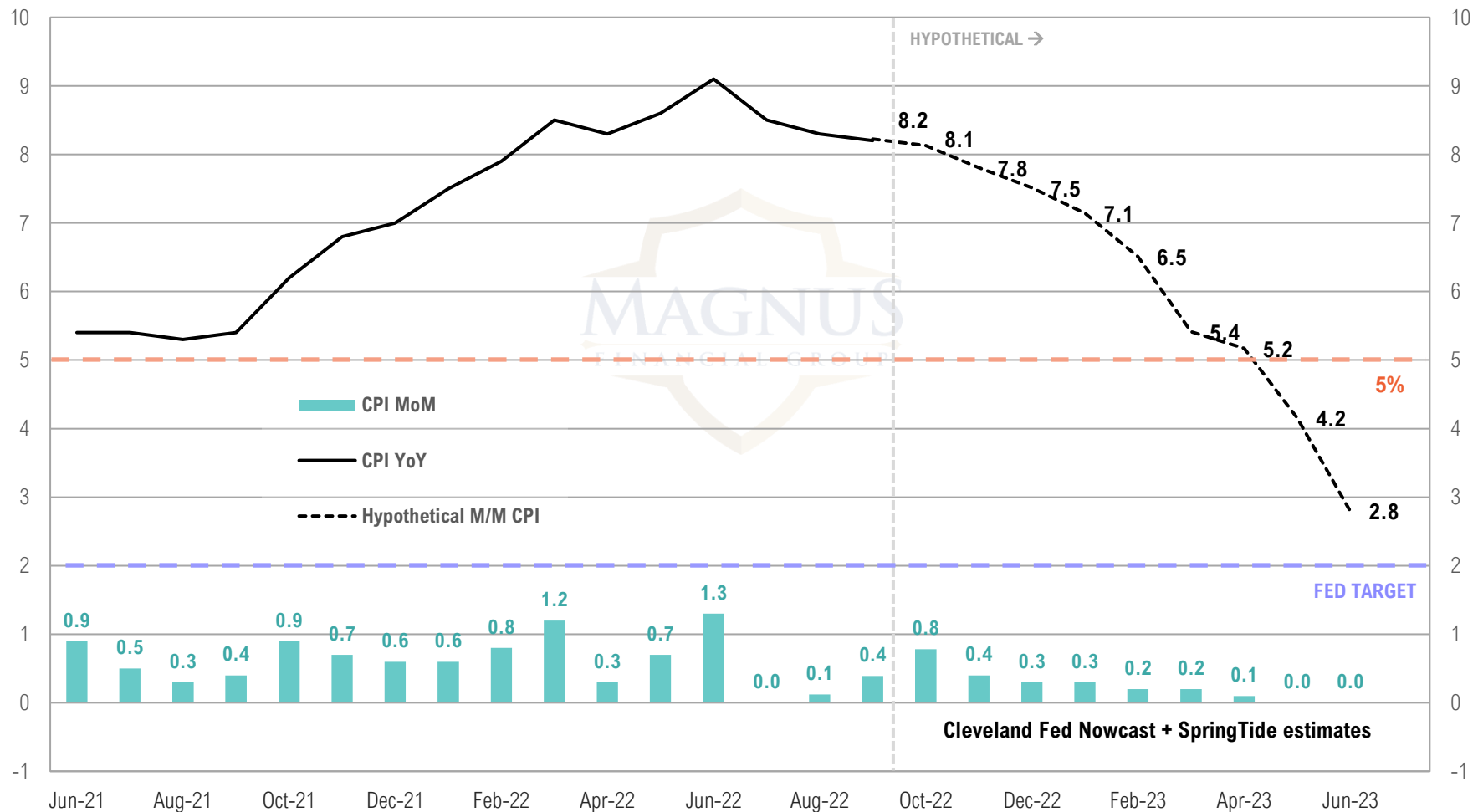
Source: Bloomberg, FRED

U.S. National home price proxied by the S&P/Case-Shiller U.S. National Home Price Index

© 2022 Magnus Financial Group LLC. All Rights Reserved

It is likely that YoY CPI will remain above 5% through Q1 of 2023

CONSUMER PRICE INDEX, %

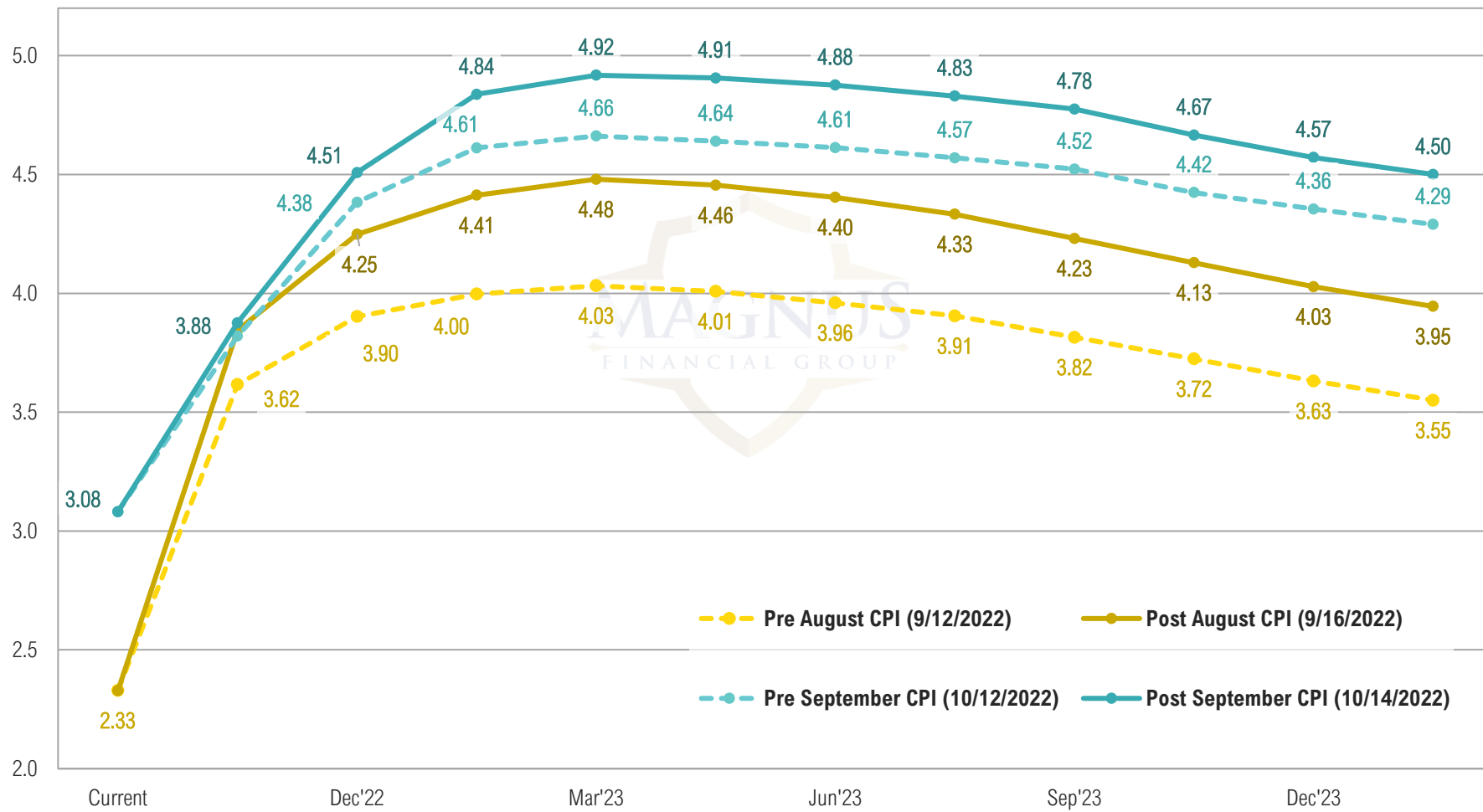


Source: Bloomberg, Cleveland Fed

© 2022 Magnus Financial Group LLC. All Rights Reserved

Yield curve moved higher after the last two CPI prints as market continued to underestimate the stickiness of inflation

IMPLIED FED FUNDS, %

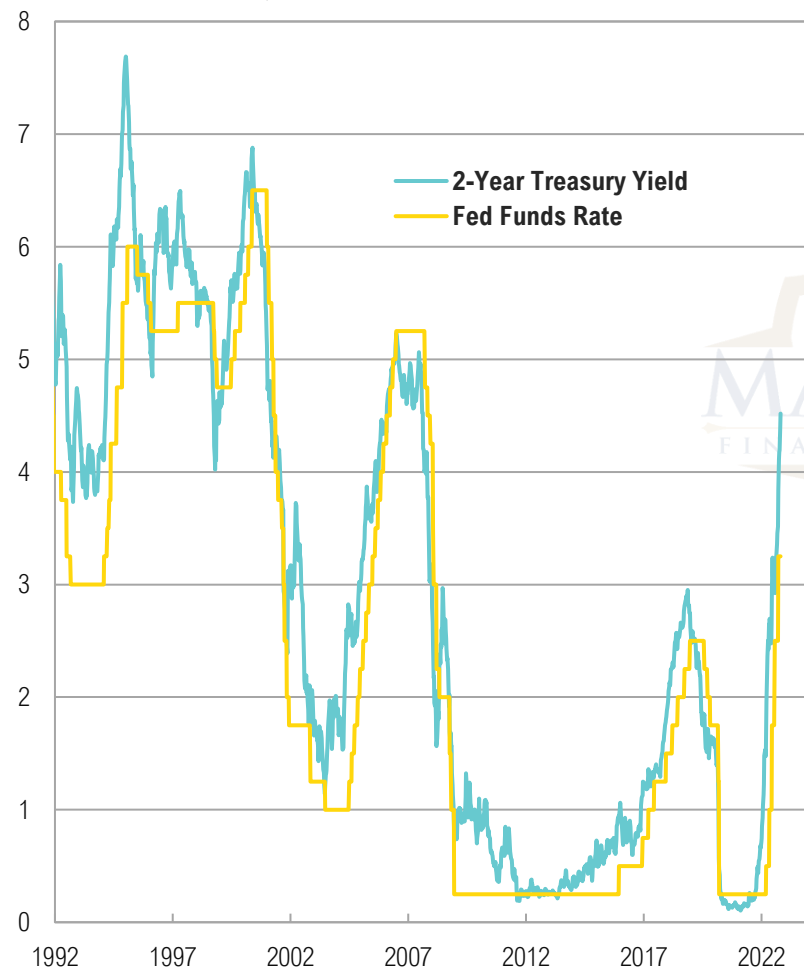


Source: Bloomberg, Cleveland Fed

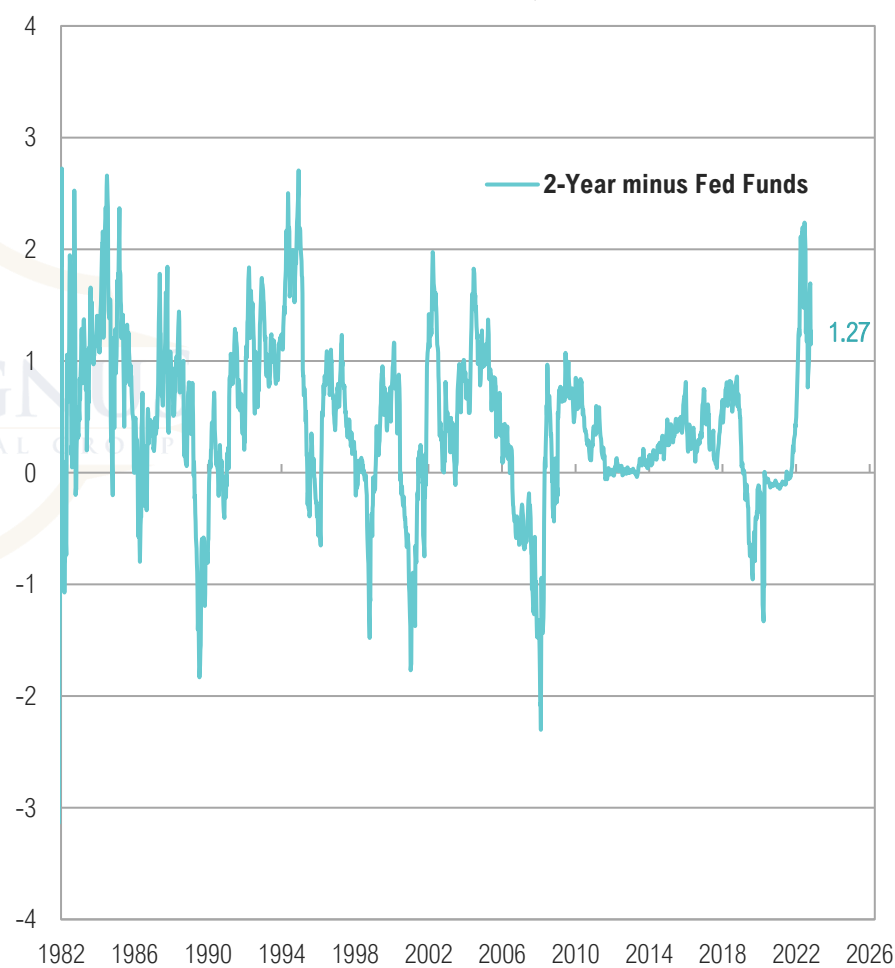
© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Fed funds rate is catching up with the 2-year yield as market thinks it has dialed in on an expected terminal Fed funds at around 5.0% within next couple of meetings

U.S. TREASURY YIELD, %



2-YEAR TO FED FUNDS TREASURY SPREAD, %

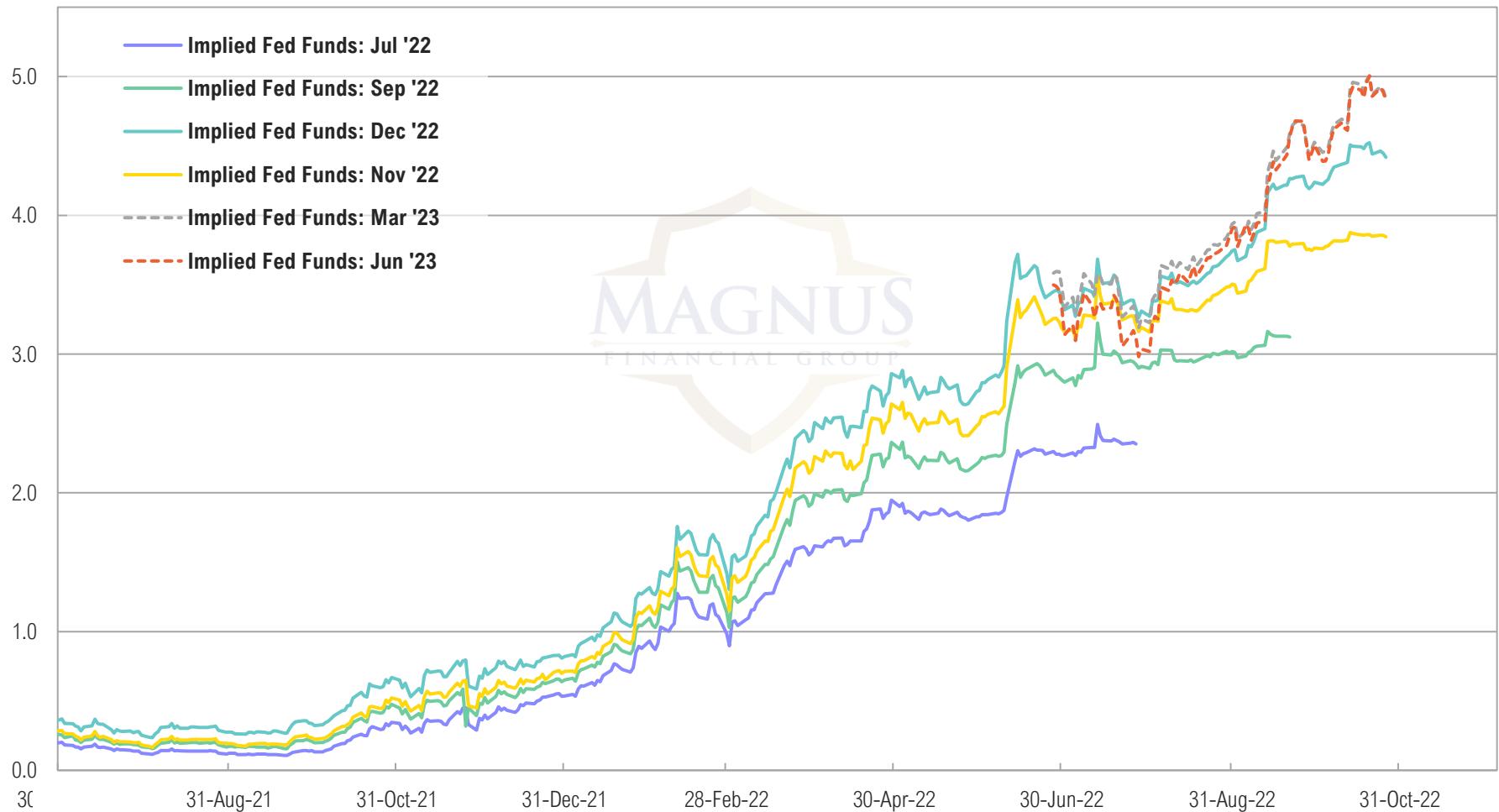


Source: FRED
Data as of 10/24/22

© 2022 Magnus Financial Group LLC. All Rights Reserved

Fed funds futures expecting peak rates in March 2023 and the Fed to start cutting rates later next year

IMPLIED FED FUNDS RATE, %

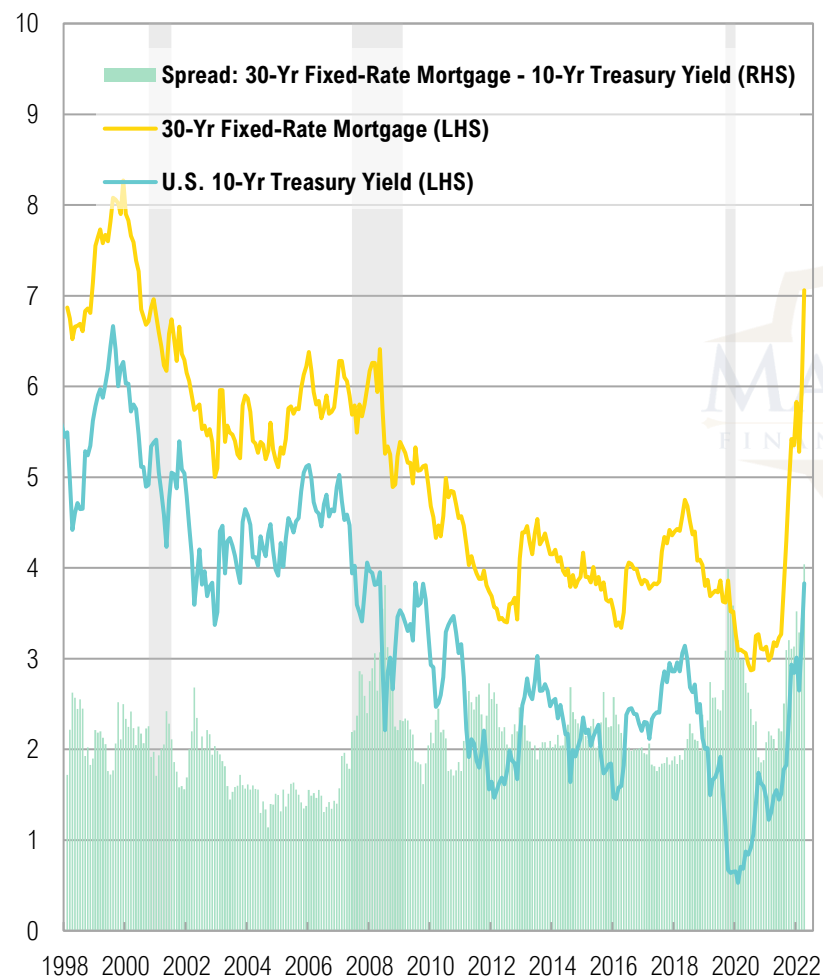


Source: Bloomberg. As at 10/26/22

© 2022 Magnus Financial Group LLC. All Rights Reserved

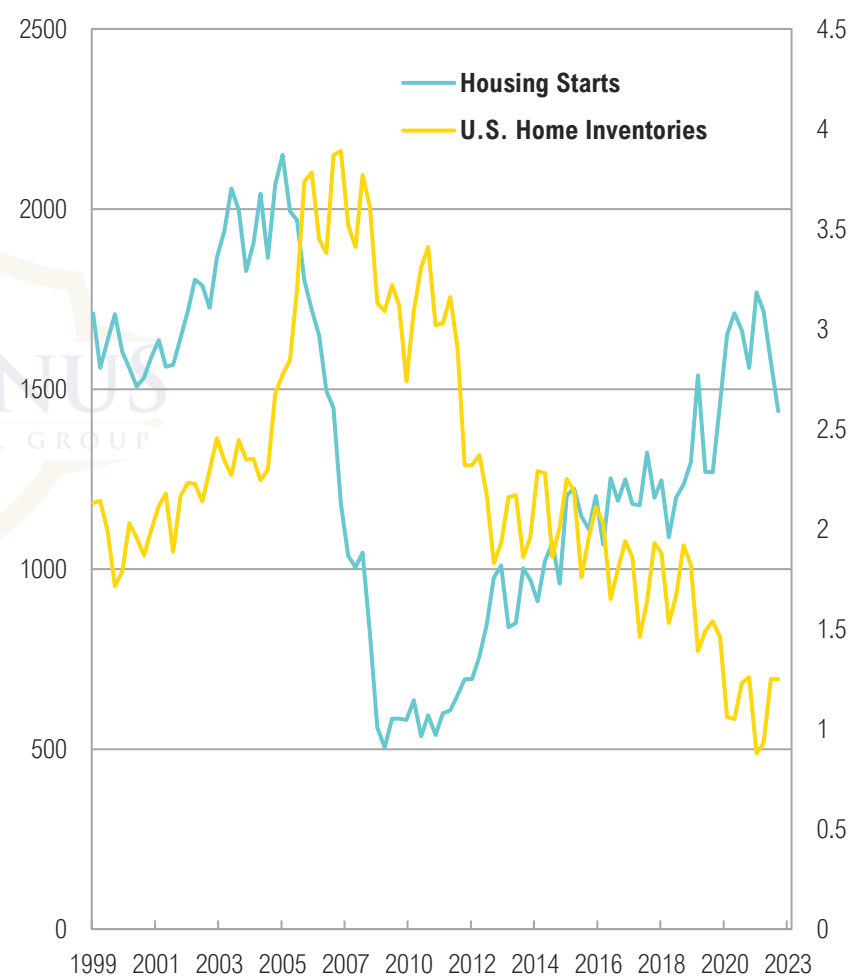
30-year fixed mortgage rates spiked in September as mortgage rate spreads vs. 10-year Treasury widened; higher rates will have a negative impact on housing and consumers *with a lag*

U.S. 10-YR TREASURY YIELD VS. 30-YR FIXED-RATE MORTGAGE



HOUSING STARTS

U.S. HOME INVENTORIES



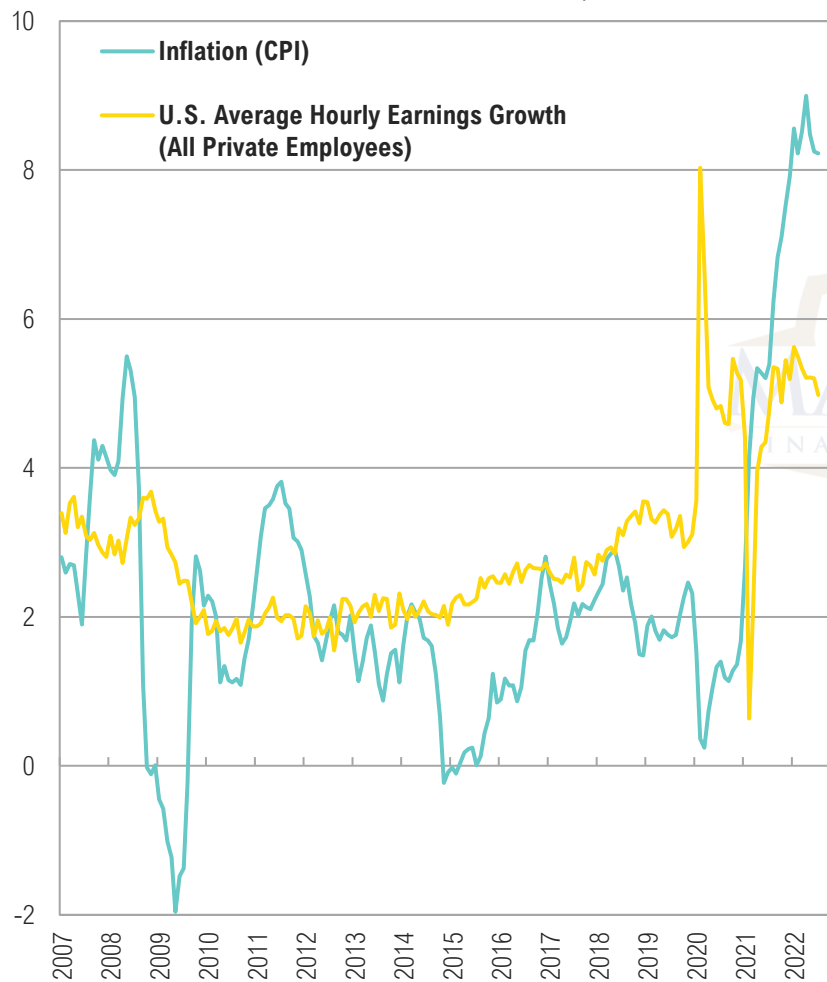
Source: Bloomberg

30-Yr Fixed-Rate Mortgage (FRM) represented by the Bankrate.com US Home Mortgage 30 Year Fixed National Avg.

© 2022 Magnus Financial Group LLC. All Rights Reserved

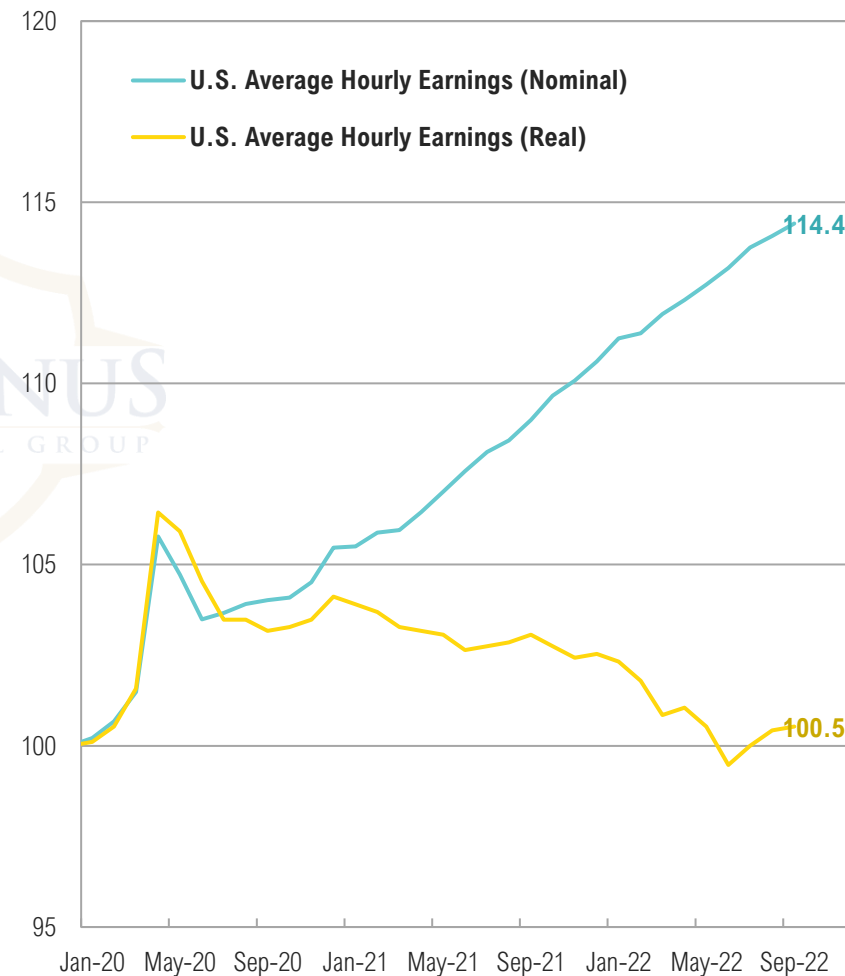
Since early 2021 inflation has outpaced wage growth, eroding real household disposable income

CPI VS AVERAGE HOURLY EARNINGS GROWTH (ALL PRIVATE EMPLOYEES), %



Source: Bloomberg

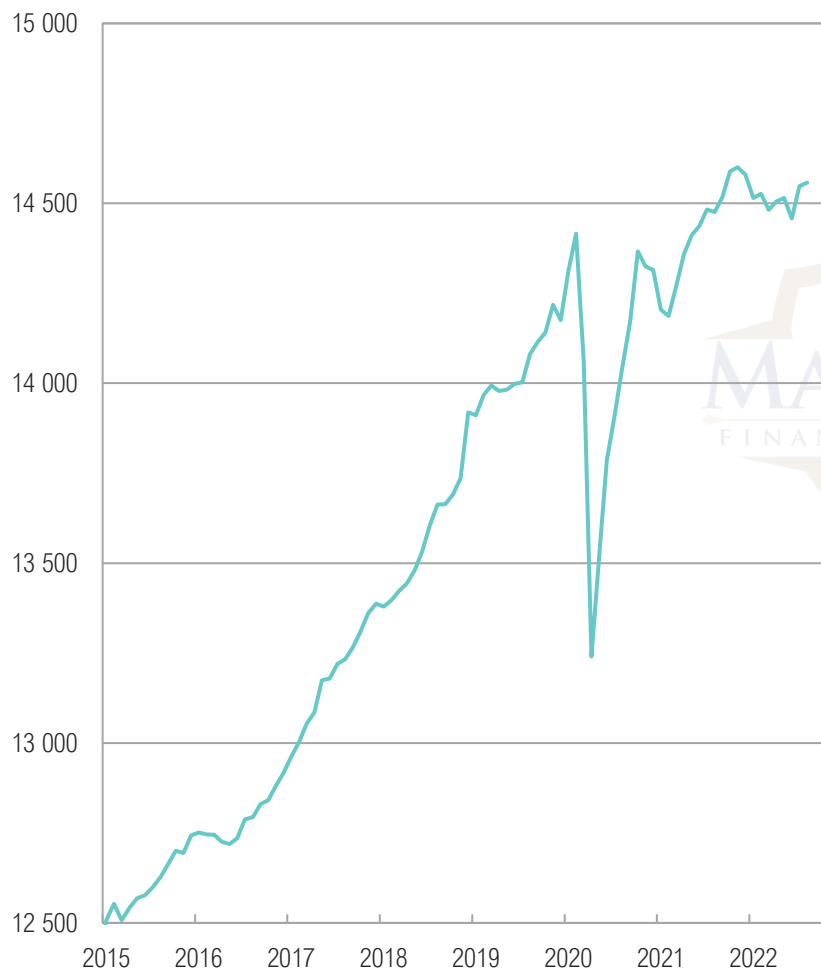
GROWTH OF 100



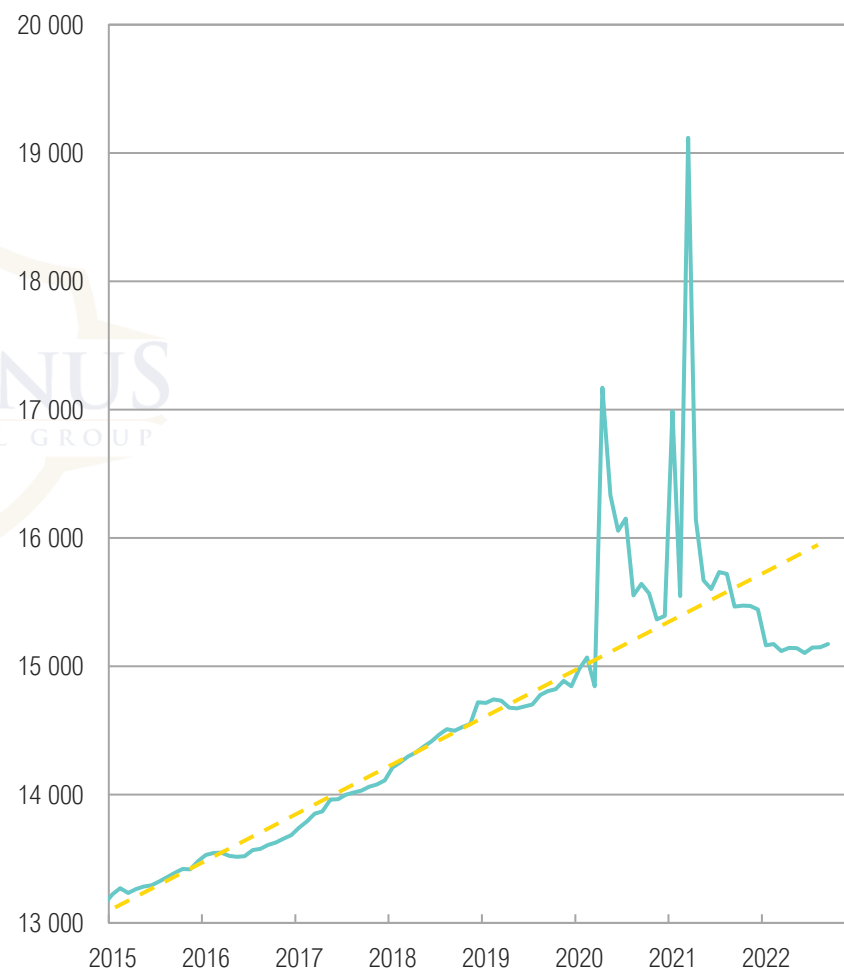
© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Real Income, excluding government transfers, is still grinding higher; total disposable income, however, has been treading water in recent months

US REAL PERSONAL INCOME EX-TRANSFER RECEIPTS, \$BN



US REAL DISPOSABLE PERSONAL INCOME, \$BN

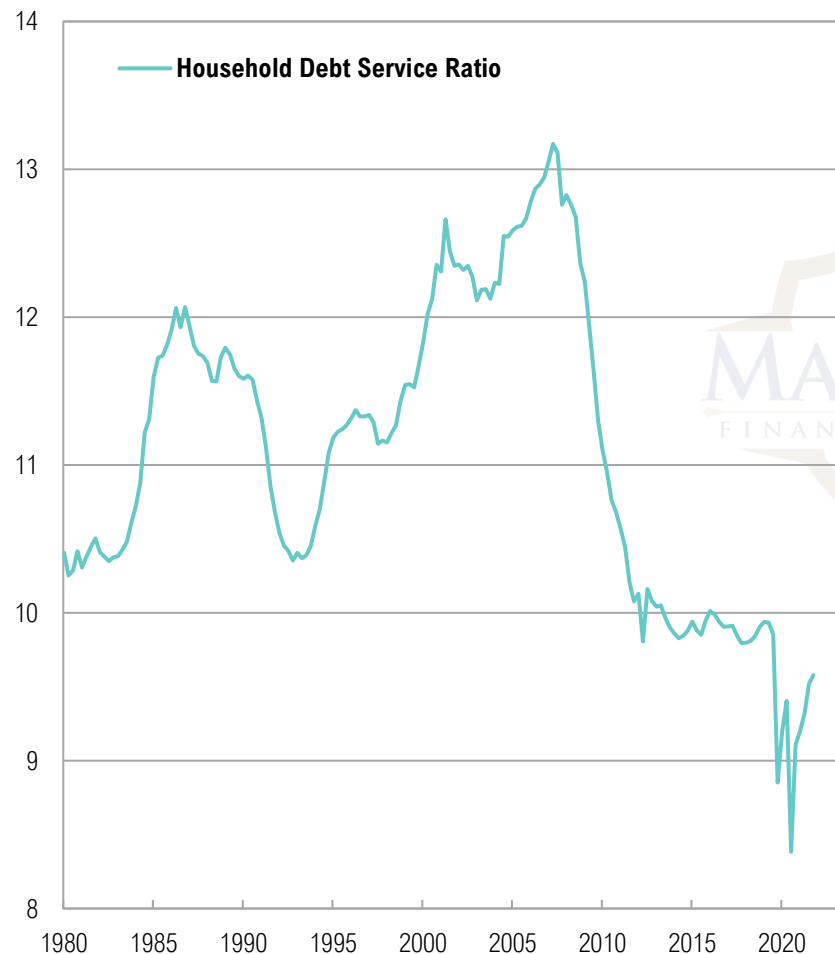


Source: FRED. U.S. Real Personal Income is as of 8/31/2022.

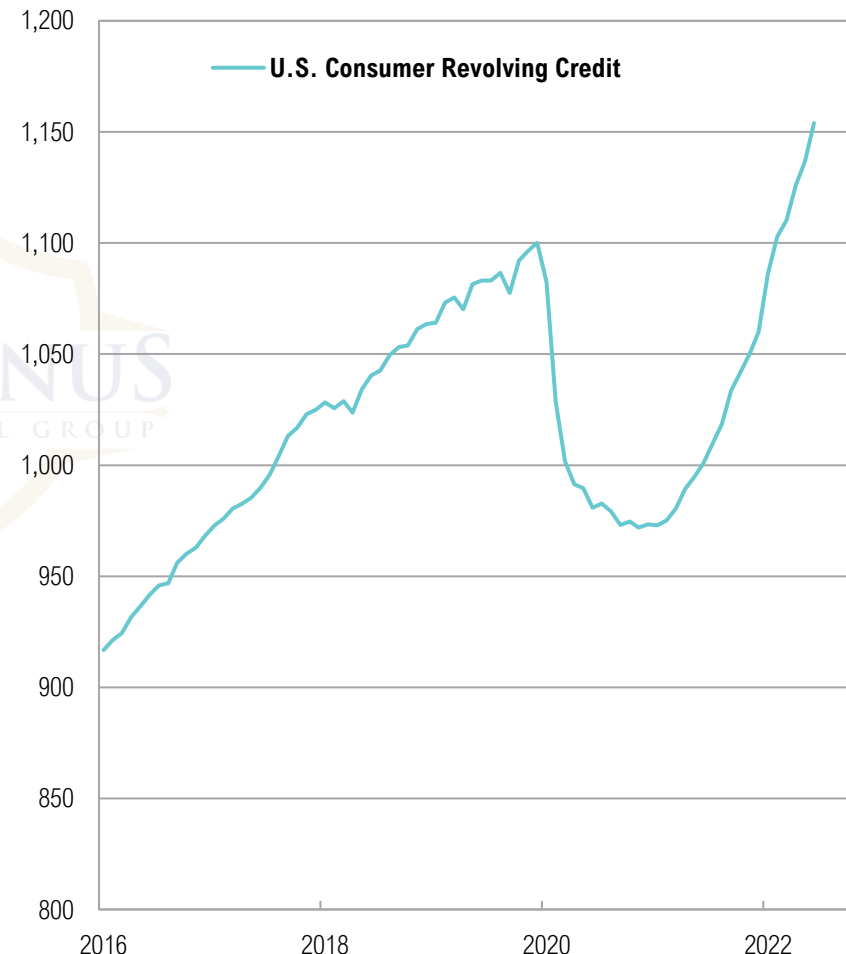
© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Consumer revolving credit has continued to increase, causing the household debt service ratio to rise

DEBT PAYMENTS AS % OF DISPOSABLE PERSONAL INCOME, SA



REVOLVING CONSUMER CREDIT, \$BN

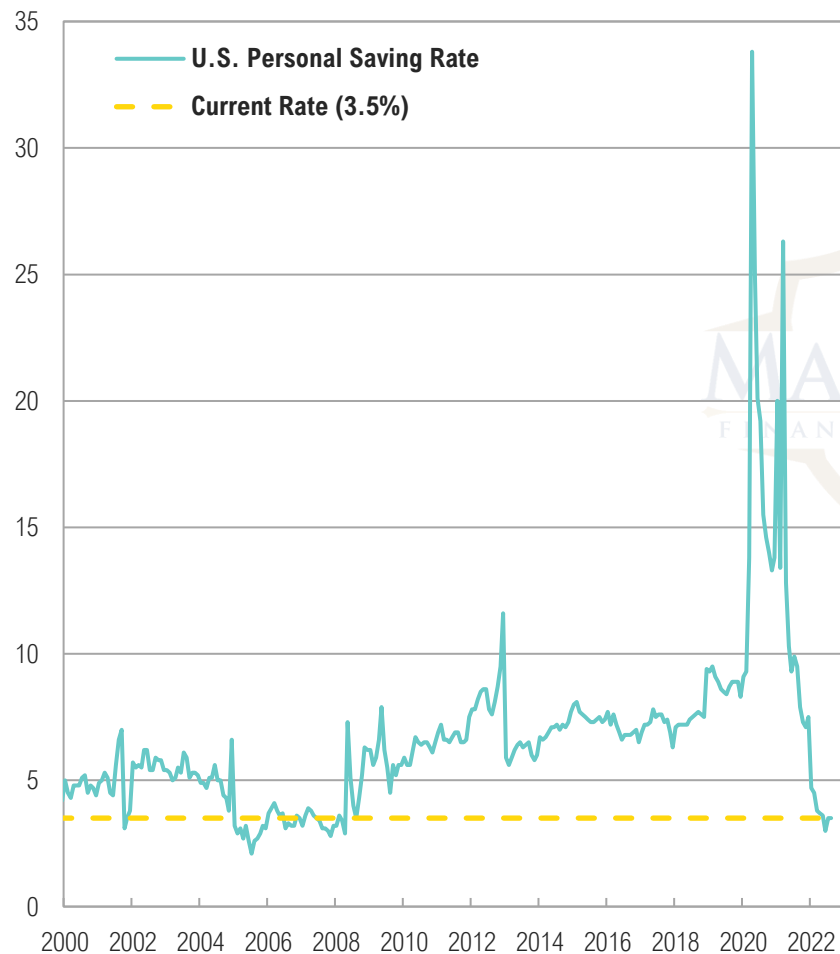


Source: Bloomberg, Federal Reserve
Household Debt Service Ratio as of 6/30/2022. U.S. Consumer Revolving Credit as of 8/31/2022.

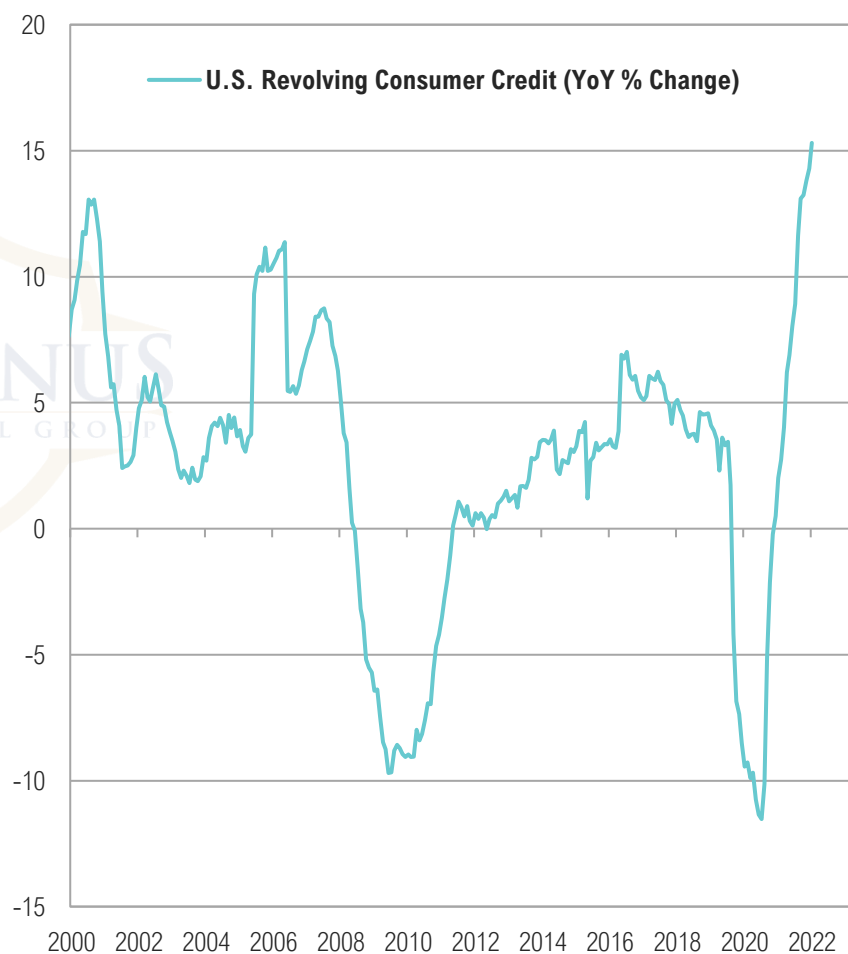
© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Consumer revolving credit increased at an annualized rate of 15.3% in August, now back at all-time highs

US PERSONAL SAVINGS AS A % OF DISPOSABLE PERSONAL INCOME



US REVOLVING CONSUMER CREDIT, YOY CHANGE %

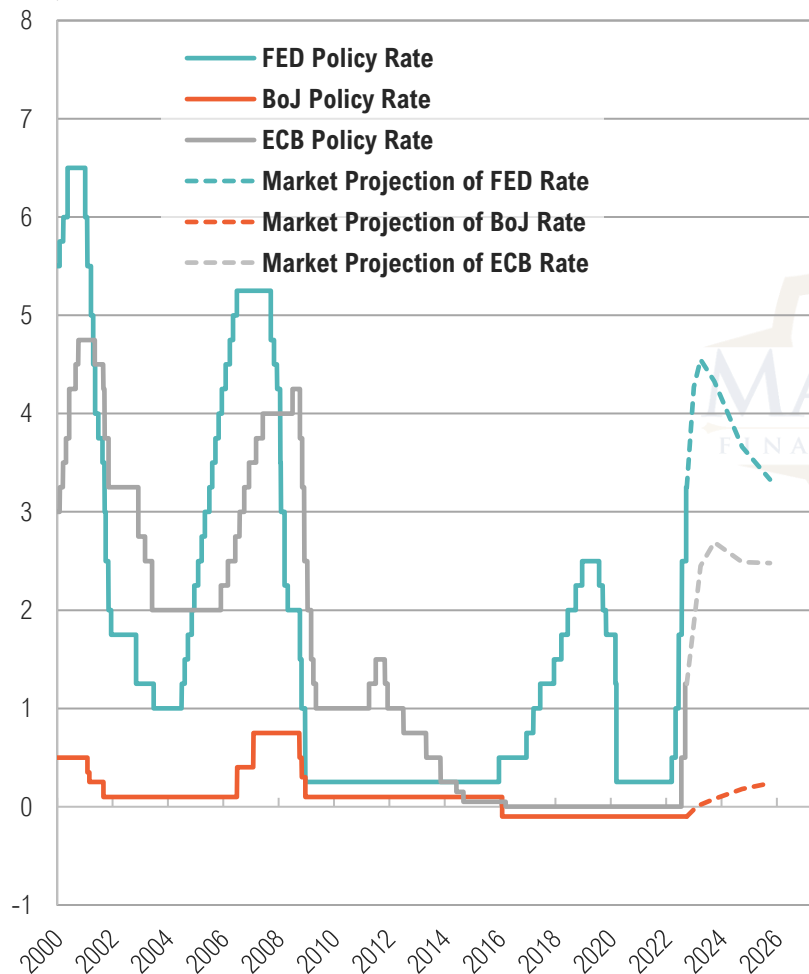


Source: Bloomberg
U.S. Revolving Consumer Credit is as of 8/31/2022.

© 2022 Magnus Financial Group LLC. All Rights Reserved

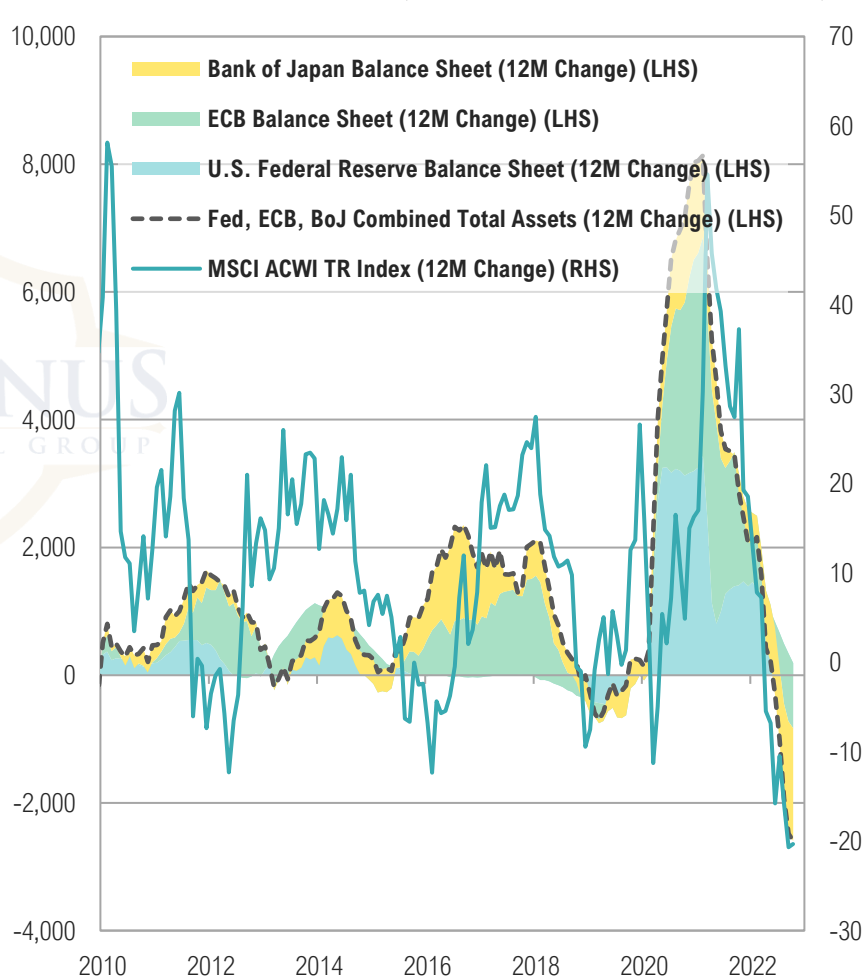
Global quantitative easing efforts supported the recent gains in global stocks; Fed, ECB and BoJ combined 12M change in assets declined for the first time since 2019 in June

FED, BOJ & ECB POLICY RATES & IMPLIED POLICY RATE EXPECTATIONS



Source: Bloomberg

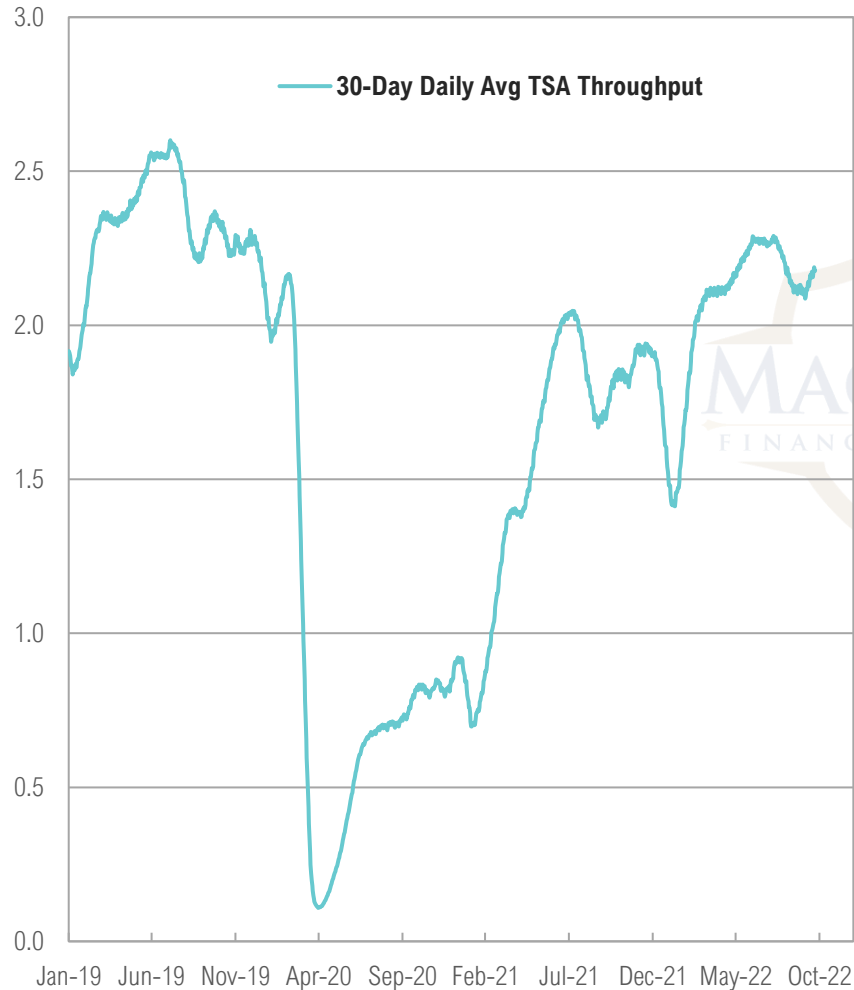
CENTRAL BANK BALANCE SHEETS, \$BN



© 2022 Magnus Financial Group LLC. All Rights Reserved

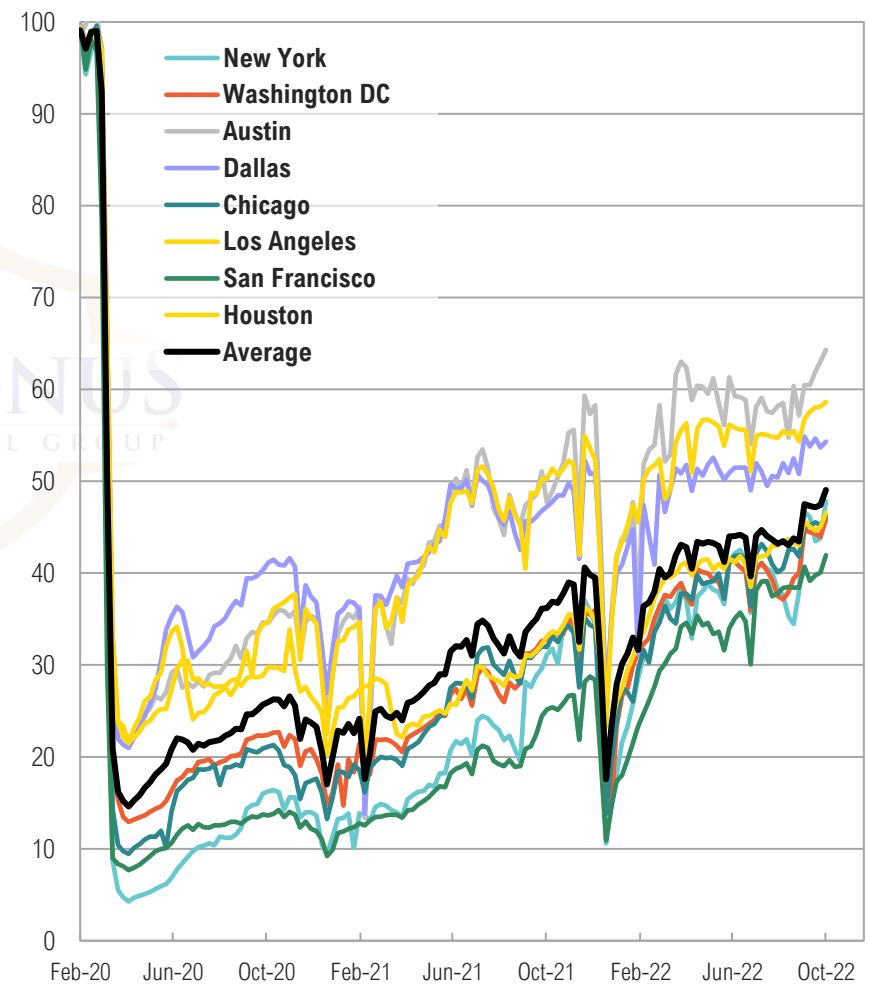
➤ Travel has returned, while work-from-home dynamics may be here to stay with 50% of office space currently in use compared to pre-COVID levels

TSA DAILY RIDERSHIP THROUGHPUT, 30-DAY AVERAGE (MILLIONS)



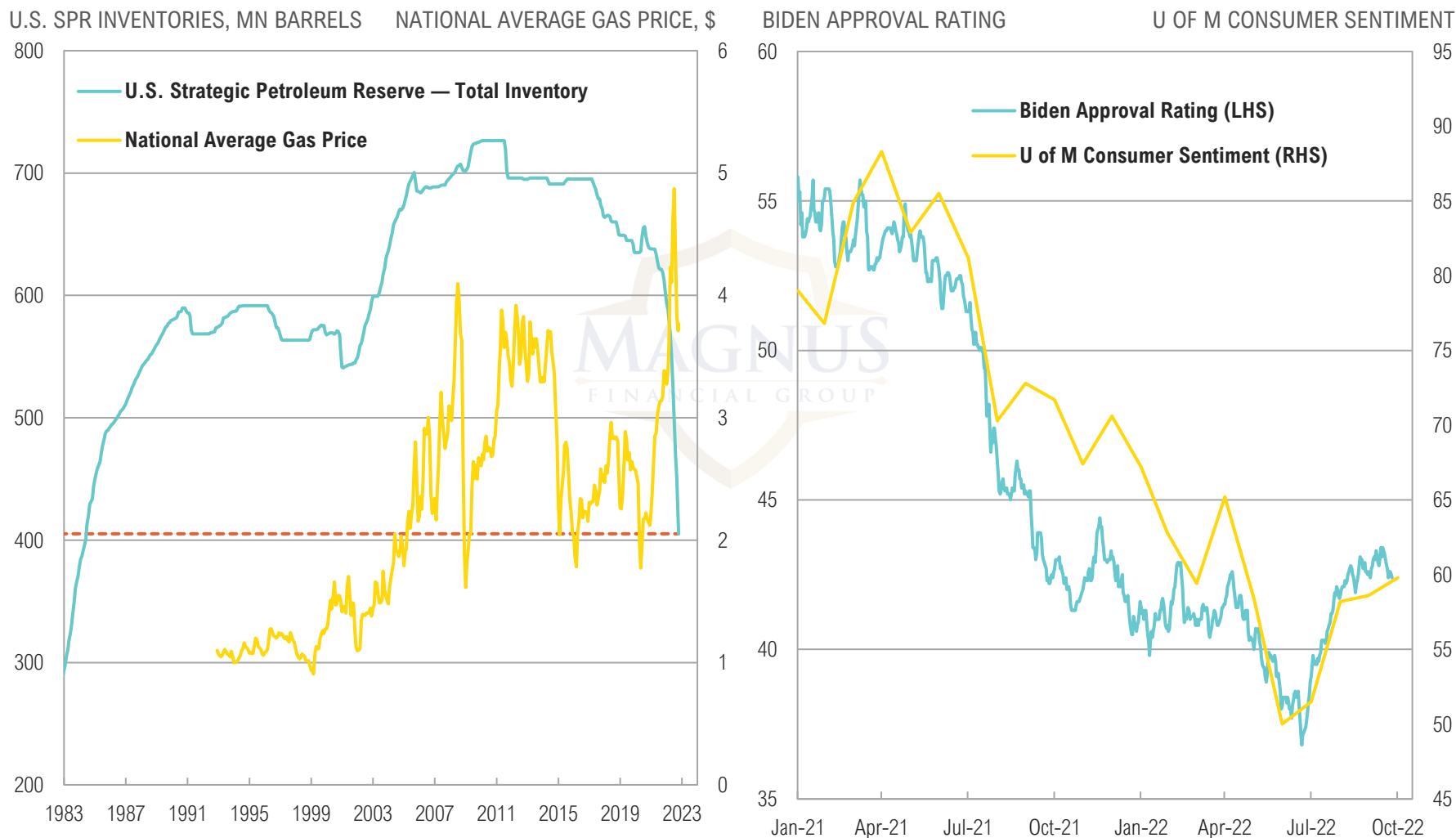
Source: U.S. Department of Transportation, Kastle

% OF CURRENT CITY OFFICE SPACE CURRENTLY IN USE



© 2022 Magnus Financial Group LLC. All Rights Reserved

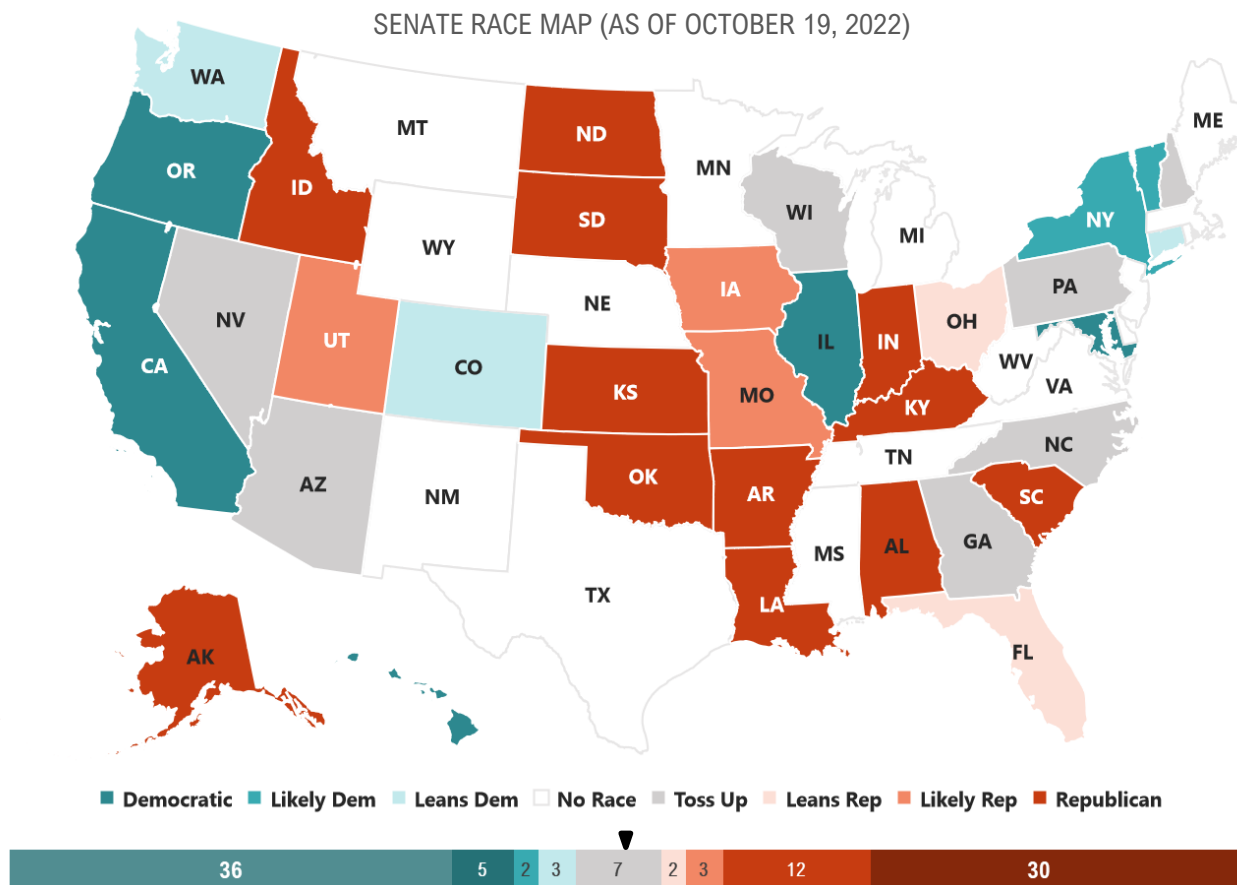
Biden's SPR dump helped ease gas prices & inflation pressures, helped contribute to a modest improvement in sentiment (& his approval rating), but gas price trends may soon reverse



Source: Bloomberg, FiveThirtyEight, University of Michigan

© 2022 Magnus Financial Group LLC. All Rights Reserved

Looking ahead to November, the race for Senate control will rely on a select few toss-up states

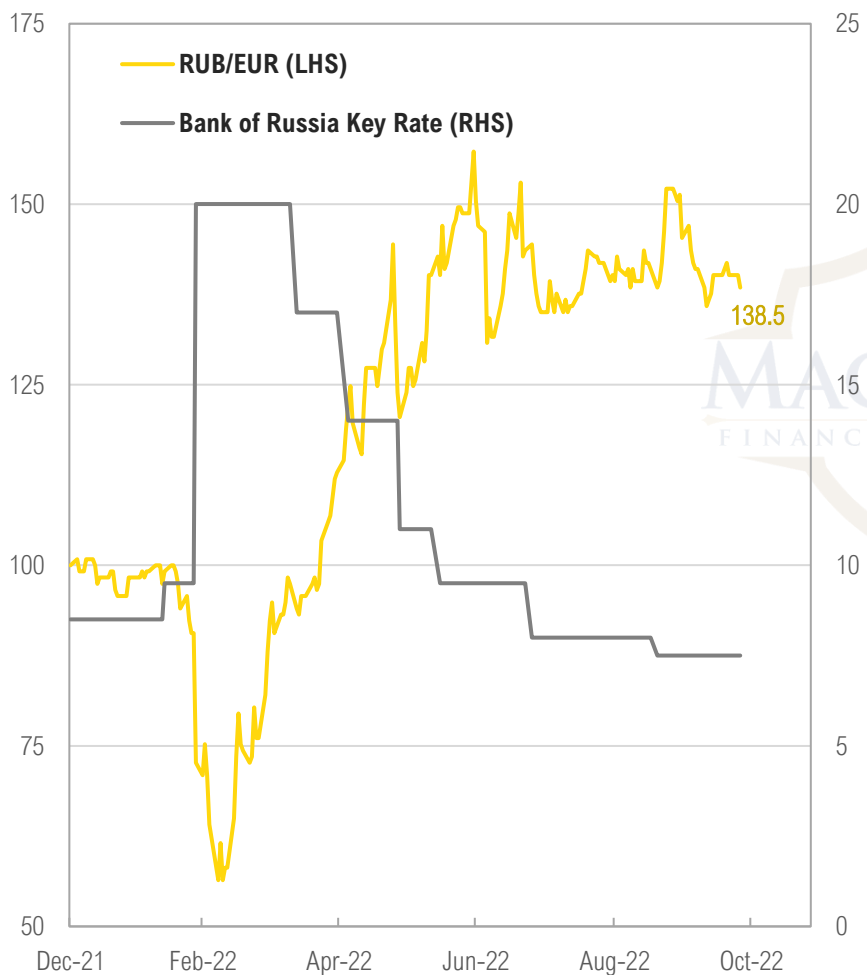


Source: Real Clear Politics

© 2022 Magnus Financial Group LLC. All Rights Reserved

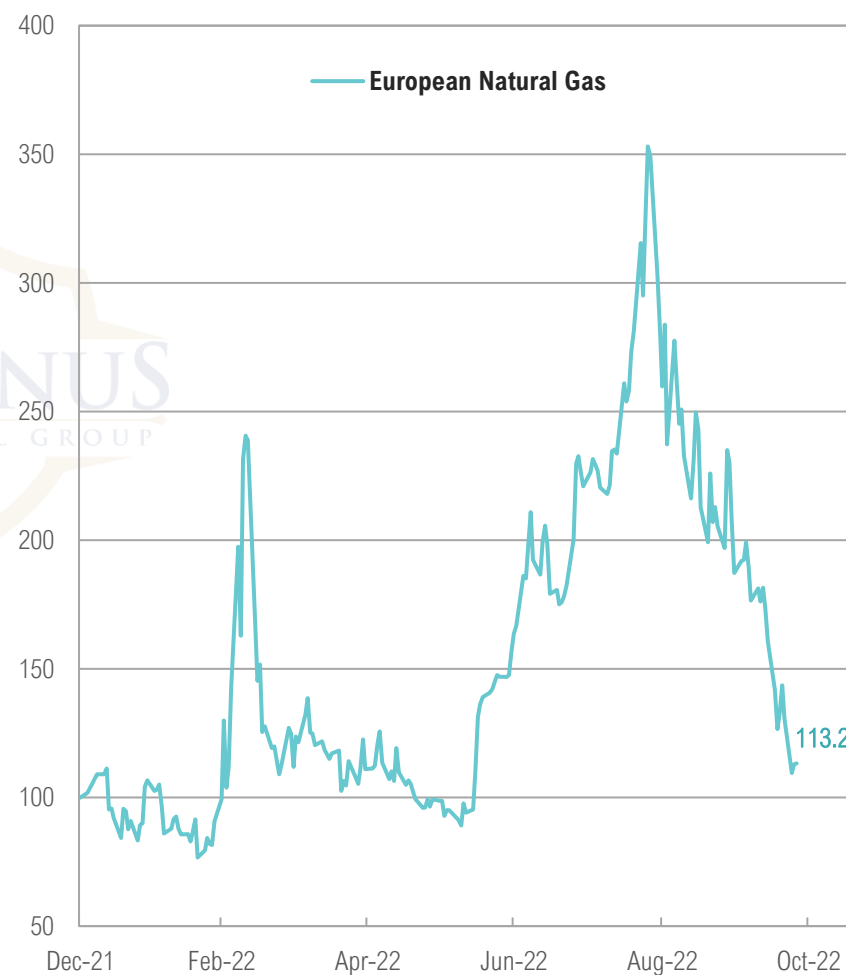
➤ No winners across the continent as the Russia-Ukraine conflict drags on; Ruble has appreciated 45% vs Euro since start of the year

RUBLE/ EURO, GROWTH 100



RUSSIAN KEY BANK RATE

EUROPEAN NATURAL GAS PRICE, GROWTH OF 100

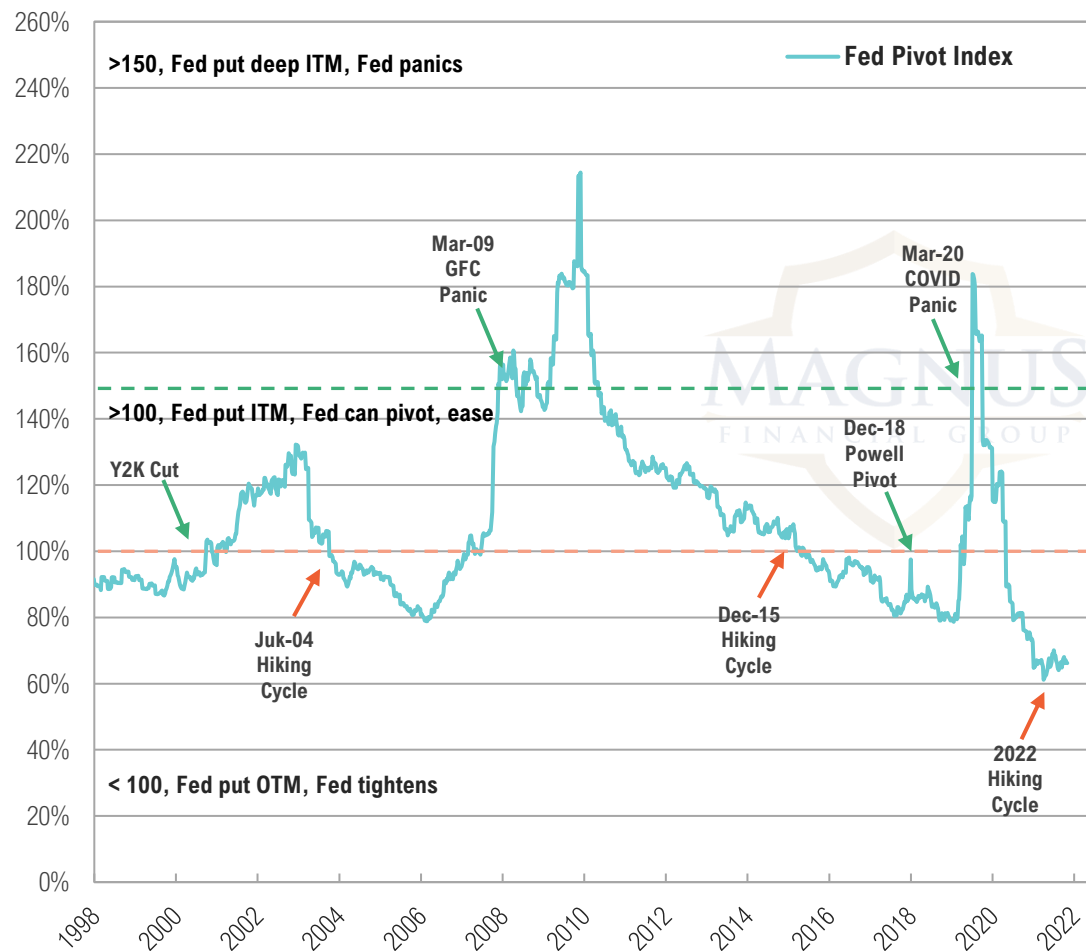


Source: Bloomberg. Dutch gas futures used as a proxy for European Natural Gas.

© 2022 Magnus Financial Group LLC. All Rights Reserved

A Fed pivot at current levels isn't justified by the data and would risk extending inflation shock and further eroding Fed's credibility

FED PIVOT INDEX, WTD AVG % OF THRESHOLD



FED PIVOT INDEX SUB-GROUPS, % OF THRESHOLD



Source: Bloomberg, SpringTide. Pivot Index = weighted average % of trigger of Core CPI (33% weight, 3% trigger), U.S. Unemployment Rate (33%, 4.5%, GS Financial Conditions Index (10%, 100), S&P 500 P/E (4%, 16x), Bbg U.S. Corporate High Yield OIS (20%, 600bps)

© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Average “pivot” (end of hiking cycle) since WWII saw Fed funds at 7.9%, headline inflation at 5.5%, core inflation at 5.0%, and the unemployment rate at 5.3%... We’re just not there yet!

KEY INDICATORS WHEN FED HIKE IN EACH OF PAST 16 CYCLES

	Policy Rate as of Last Hike*	Unemployment Rate	Headline Inflation	Core Inflation	Real GDP Growth
	(%)				
Oct-57	3.5	4.5	2.9	-	0.4
Oct-59	4.0	5.7	1.7	2.7	4.6
Nov-66	5.8	3.6	3.8	3.6	4.5
May-68	6.1	3.5	3.9	4.3	5.5
Jul-74	12.9	5.5	11.5	8.8	-0.6
Apr-80	17.6	6.9	14.7	13.0	-0.8
Jun-81	19.1	7.5	9.6	9.4	3.0
Aug-84	11.5	7.5	4.3	5.1	6.9
Sep-87	7.3	5.9	4.4	4.3	3.3
May-89	9.8	5.2	5.4	4.6	3.7
Feb-95	6.0	5.4	2.9	3.0	3.5
Mar-97	5.5	5.2	2.8	2.5	4.3
May-00	6.5	4.0	3.2	2.4	5.2
Jun-06	5.3	4.6	4.3	2.6	3.0
Dec-18	2.4	3.9	1.9	2.2	2.3
Oct-22	3.1	3.7	8.3	6.3	1.8
Average	7.9	5.2	5.5	5.0	3.2

Source: Bloomberg, BofA. *Effective Fed funds rate until Sep '82, median target thereafter

© 2022 Magnus Financial Group LLC. All Rights Reserved

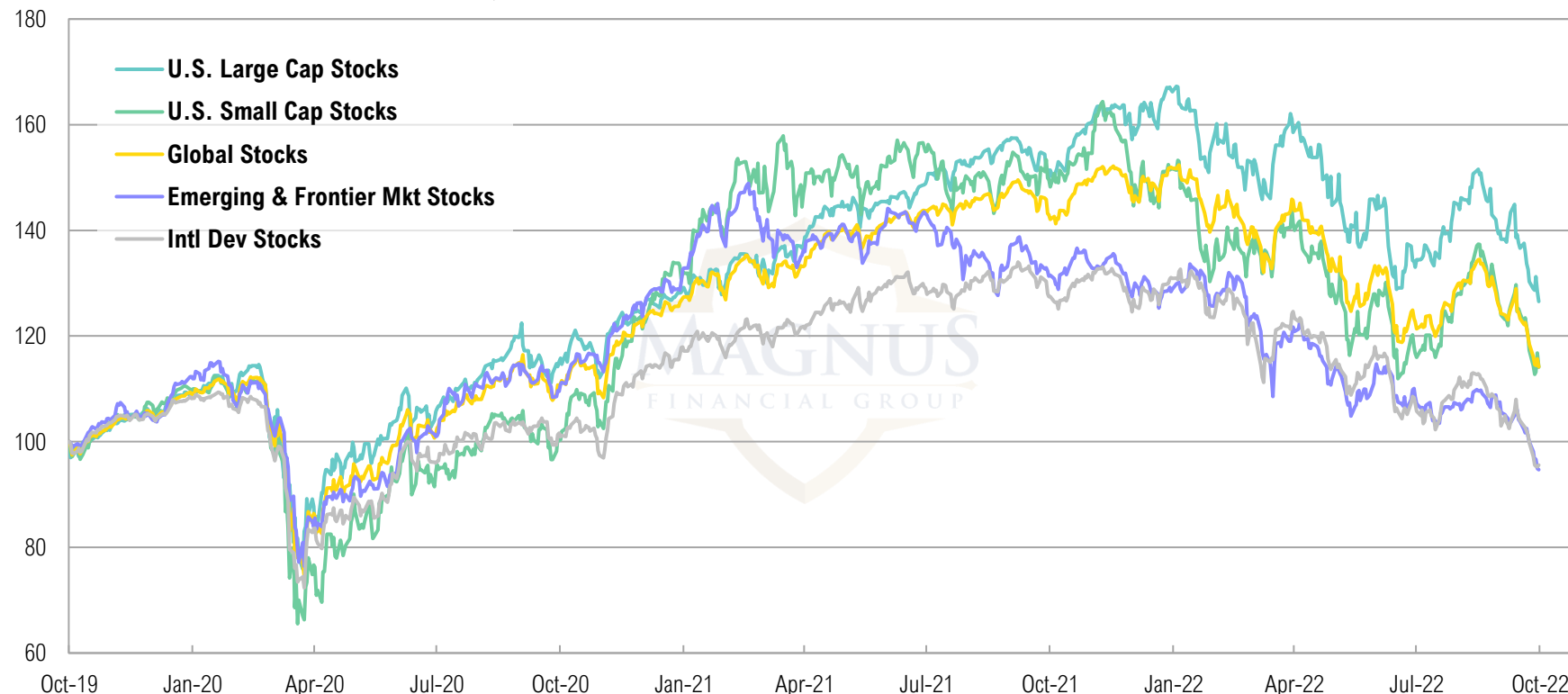


Excesses in one direction will lead to an opposite excess in the other direction.

– **Bob Farrell**, *Merrill Lynch Strategist and Market Historian (Bob Farrell's 10 Rules)*

Despite dropping back into bear market territory, U.S. stocks have outperformed their international peers this year; EM underperformed over the quarter

CALENDAR YEAR & TRAILING TOTAL RETURNS, GROWTH INDEX



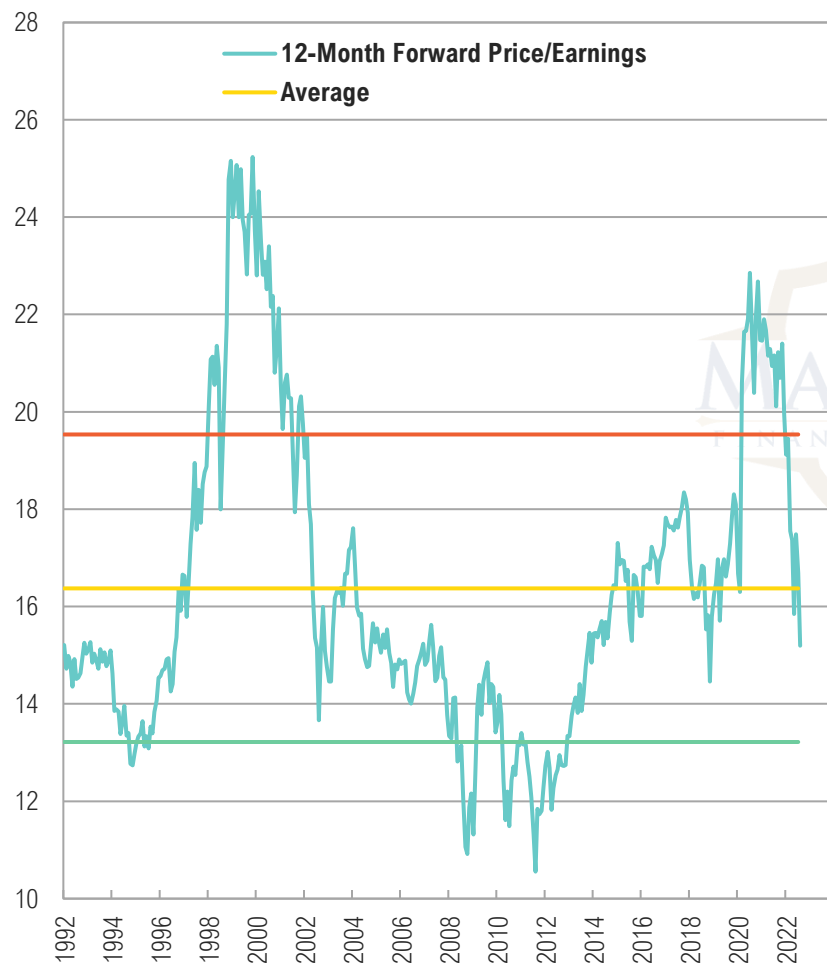
Asset Class	Benchmark	MTD	QTD	YTD	1-Yr	3-Yr	5-Yr	10-Yr	2021	2020	2019	2018	2017
U.S. Large Cap Stocks	S&P 500 TR	-9.2	-4.9	-23.9	-15.5	8.2	9.2	11.7	28.7	18.4	31.5	-4.4	21.8
U.S. Small Cap Stocks	Russell 2000 TR	-9.7	-2.1	-25.1	-23.6	4.2	3.5	8.5	14.5	20.0	25.4	-11.1	14.6
Intl Dev Stocks	MSCI EAFE GR	-9.4	-9.4	-27.1	-25.1	-1.8	-0.8	3.7	11.3	7.8	22.0	-13.8	25.0
Emerging & Frontier Mkt Stocks	MSCI EM GR	-11.7	-11.6	-27.2	-28.1	-2.1	-1.8	1.0	-2.5	18.3	18.4	-14.6	37.3
Global Stocks	MSCI ACWI GR	-9.6	-6.8	-25.6	-20.7	3.7	4.4	7.3	18.5	16.3	26.6	-9.4	24.0

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

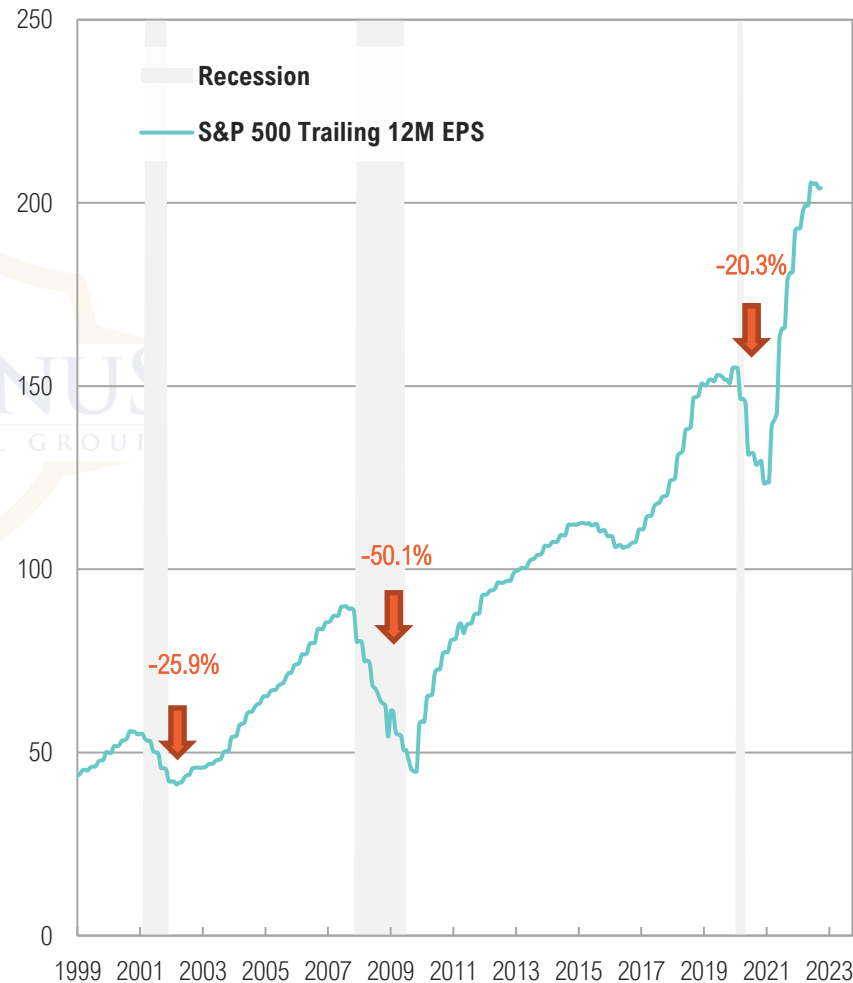
© 2022 Magnus Financial Group LLC. All Rights Reserved

Forward valuations have improved due to bear market, slightly below average relative to history; focus now shifts to earnings decline; history suggests baseline should be at least 20% drop

12-MONTH FORWARD PRICE TO EARNINGS



TRAILING 12-MONTH EARNINGS PER SHARE

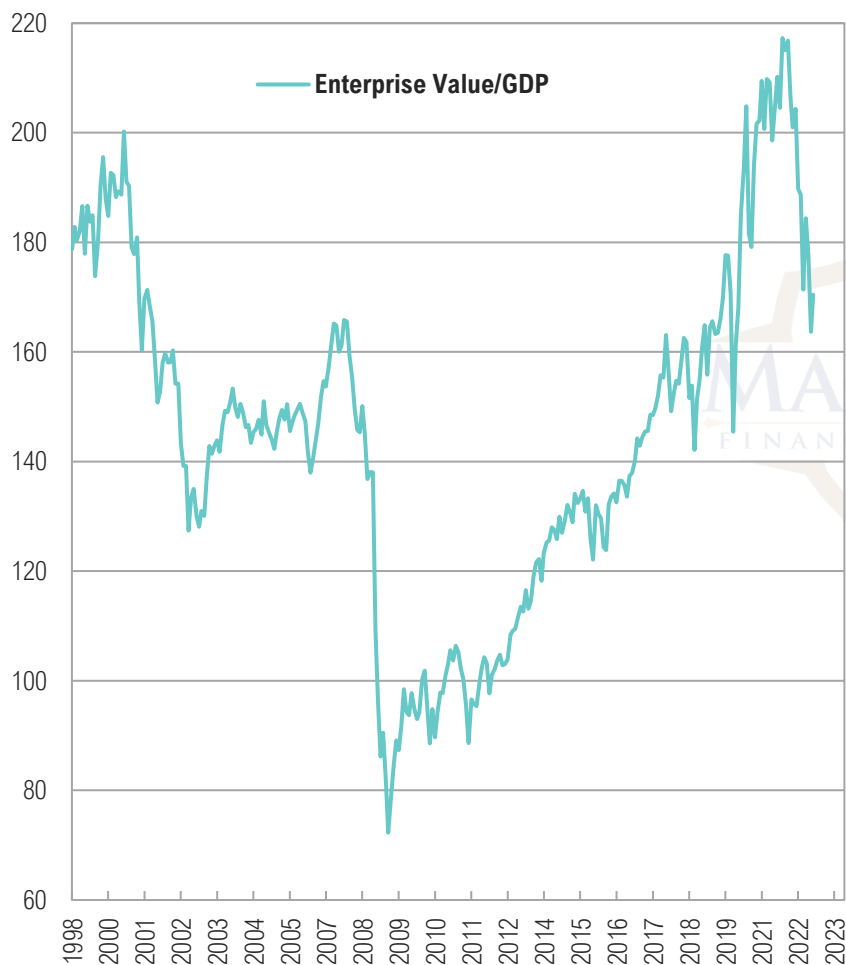


Source: Bloomberg. As at 9/30/2022

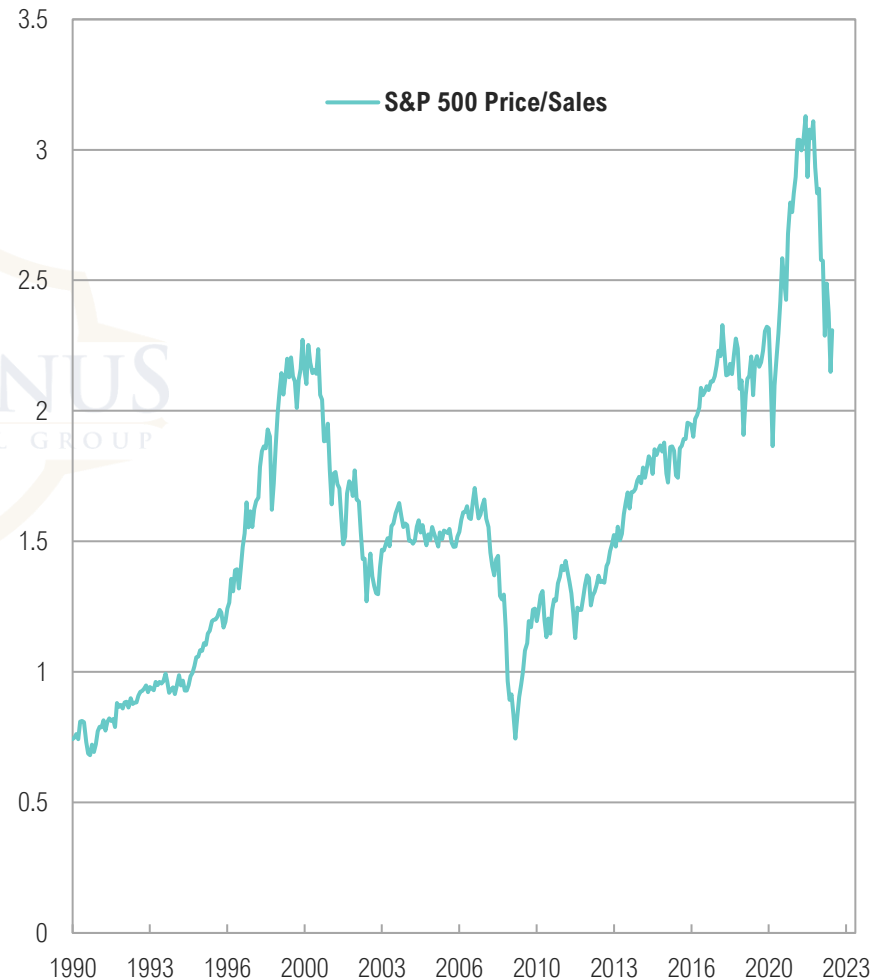
© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Adjusting for record-high margins, equity valuations are not compelling

S&P 500 ENTERPRISE VALUE AS A % OF GDP



S&P 500 PRICE-TO-SALES RATIO



Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

Energy ahead of consumer discretionary, tech and real estate by approximately 90% year-to-date

TRAILING AND CALENDAR YEAR TOTAL RETURNS, %

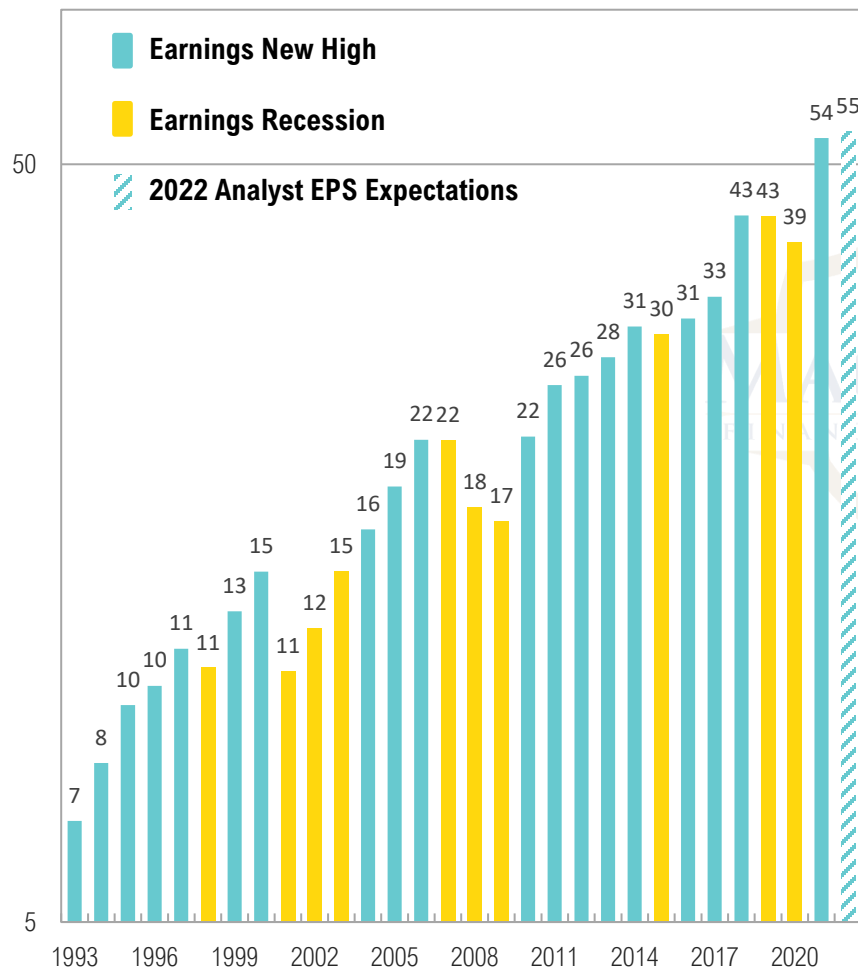
Style Boxes	Benchmark	1-Wk	MTD	QTD	YTD	1-Yr	3-Yr	5-Yr	10-Yr	2021	2020	2019	2018	2017
■ U.S. Large Cap Value	Russell 1000 Value TR Index	3.9	5.5	5.5	-13.2	-11.2	6.1	6.0	9.6	25.2	2.8	26.5	-8.3	13.7
■ U.S. Large Cap Blend	Russell 1000 TR Index	4.7	4.6	4.6	-21.1	-18.2	9.2	9.5	12.1	26.5	21.0	31.4	-4.8	21.7
■ U.S. Large Cap Growth	Russell 1000 Growth TR Index	5.4	3.7	3.7	-28.1	-24.6	11.4	12.4	14.3	27.6	38.5	36.4	-1.5	30.2
■ U.S. Small Cap Value	Russell 2000 Value TR Index	3.3	6.0	6.0	-16.4	-16.5	6.1	3.8	8.7	28.3	4.6	22.4	-12.9	7.8
■ U.S. Small Cap Blend	Russell 2000 TR Index	3.6	4.7	4.7	-21.6	-23.1	5.3	4.2	9.3	14.8	20.0	25.5	-11.0	14.6
■ U.S. Small Cap Growth	Russell 2000 Growth TR Index	3.8	3.5	3.5	-26.8	-29.6	3.5	4.0	9.5	2.8	34.6	28.5	-9.3	22.2
Factors														
■ Cyclical	MSCI USA Cyclical Sectors GR Index	5.5	4.1	4.1	-27.4	-25.1	8.5	9.9	13.5	27.6	27.8	36.3	-5.3	27.3
■ Defensives	MSCI USA Defensive Sectors Capped GR Index	3.8	6.4	6.4	6.4	12.1	12.7	10.1	11.2	30.3	-2.9	21.8	-4.3	9.1
■ High Dividend	MSCI USA High Dividend Yield GR Index	3.3	4.5	4.5	-11.9	-6.7	4.8	6.3	10.2	21.9	1.7	22.5	-2.3	19.5
■ Min Vol	MSCI USA Minimum Volatility (USD) GR Index	3.2	3.0	3.0	-14.8	-10.4	3.9	7.8	11.0	21.0	5.8	28.0	1.5	19.2
■ Momentum	MSCI USA Momentum GR Index	4.9	7.9	7.9	-20.5	-22.5	7.3	8.8	13.6	12.9	29.6	28.1	-1.6	37.8
■ High Quality	MSCI USA Quality GR Index	4.8	4.1	4.1	-26.4	-22.5	8.3	10.5	13.1	27.6	22.9	39.1	-2.6	26.0
Sectors														
■ Consumer Staples	S&P Cons Staples Select Sector TR Index	2.1	3.3	3.3	-8.9	0.0	7.1	8.0	9.9	17.3	10.3	27.7	-8.0	13.1
■ Consumer Discretionary	S&P Consumer Disc Select Sector TR Index	5.3	-0.1	-0.1	-29.9	-25.8	6.1	10.6	13.4	28.0	29.8	28.6	1.8	23.0
■ Energy	S&P Energy Select Sector TR Index	8.4	20.8	20.8	61.8	58.4	21.5	10.4	5.6	53.4	-32.8	12.1	-18.1	-0.9
■ Financials	S&P Financial Select Sector TR Index	3.9	6.2	6.2	-16.4	-18.1	6.4	6.1	11.7	35.0	-1.7	32.1	-13.0	22.2
■ Health Care	S&P Health Care Select Sector TR Index	2.3	4.6	4.6	-9.1	-2.0	13.5	10.6	14.0	26.1	13.4	20.8	6.4	21.9
■ Industrials	S&P Industrial Select Sector TR Index	4.7	7.1	7.1	-15.1	-13.7	6.5	6.0	11.5	21.1	11.1	29.4	-13.0	24.1
■ Materials	S&P Materials Select Sector TR Index	6.1	6.4	6.4	-18.9	-13.0	10.3	6.4	9.3	27.3	20.5	24.4	-14.8	23.9
■ Real Estate	S&P Real Estate Select Sector TR Index	2.8	-3.7	-3.7	-31.5	-24.4	-1.5	4.7	7.3	46.2	-2.1	29.0	-2.2	10.8
■ Technology	S&P Technology Select Sector TR Index	6.5	4.7	4.7	-27.9	-21.0	16.3	16.8	17.5	34.7	43.9	50.3	-1.4	34.6
■ Utilities	S&P Utilities Select Sector TR Index	2.0	-3.3	-3.3	-9.6	-2.5	2.9	6.4	9.3	17.7	0.5	26.3	4.1	12.1
■ Communication Services	S&P Cmmnctn Svcs Select Sector TR Index	4.7	4.8	4.8	-34.9	-38.3	0.6	3.9	10.6	16.0	27.0	31.4	-6.9	24.5

Source: Bloomberg. Returns for periods longer than 1 year are annualized
As of 10/21/2022

© 2022 Magnus Financial Group LLC. All Rights Reserved

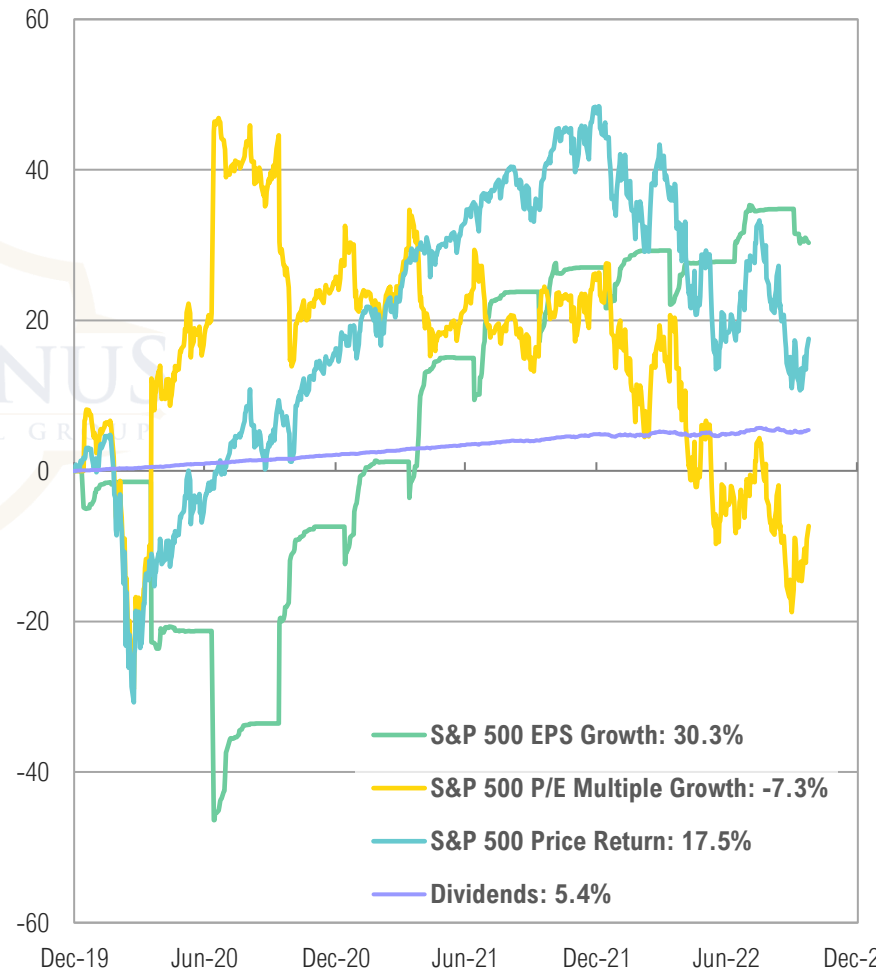
Analyst EPS expectations remain high, but have started to decline

S&P 500 EARNINGS PER SHARE, LOG SCALE



Source: Bloomberg, Factset

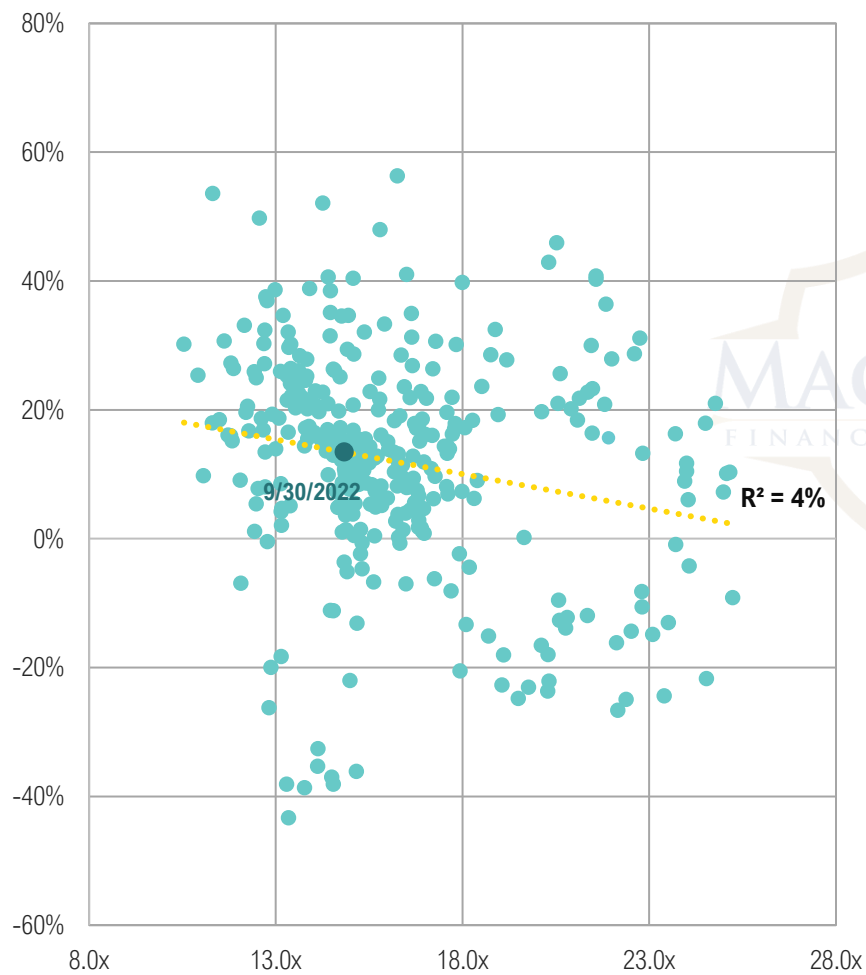
S&P 500 GROWTH, EARNINGS & VALUATION, % CHANGE (DEC-'20 = 0)



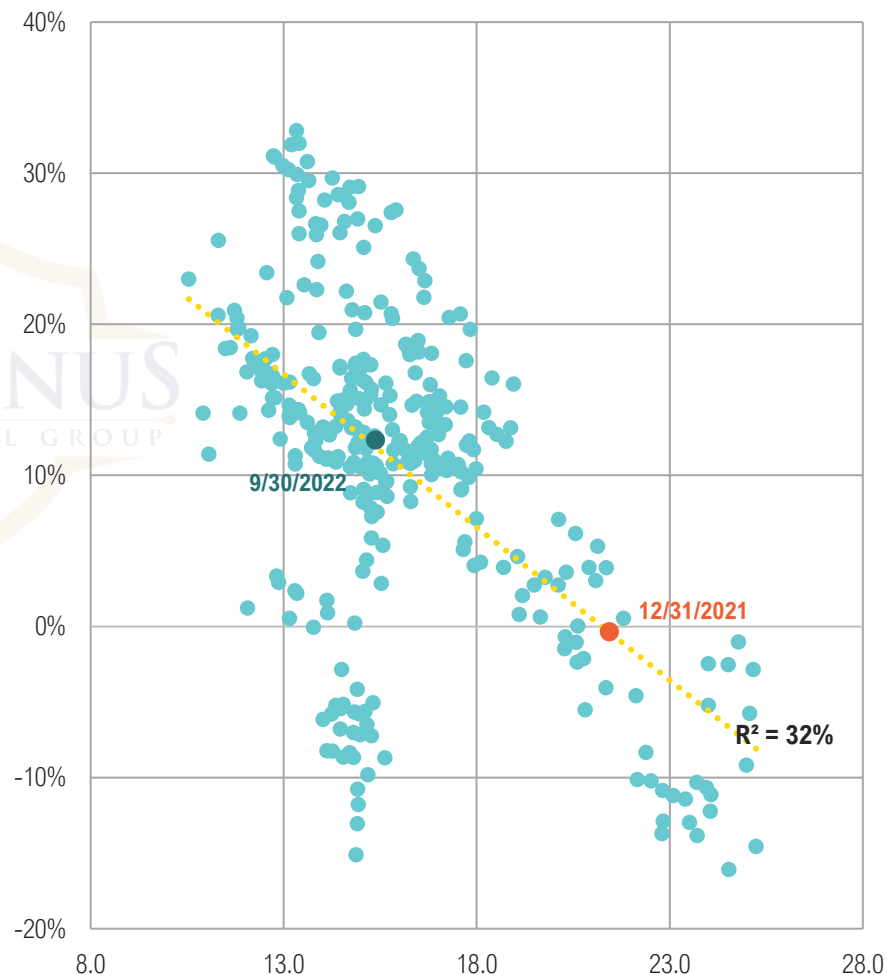
© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Forward P/Es have little predictive power for one-year forward equity returns, but have been reasonably predictive over longer time horizons

FORWARD P/E AND SUBSEQUENT 1-YR FORWARD RETURN



FORWARD P/E AND SUBSEQUENT 3-YR FORWARD RETURN

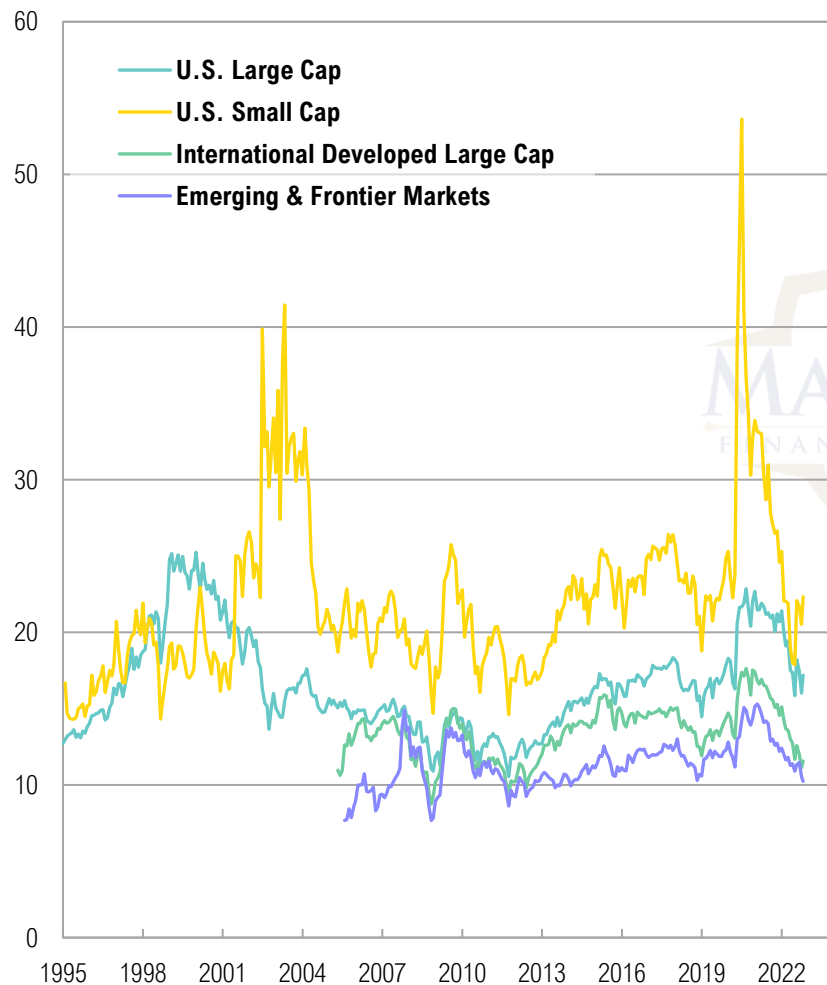


Source: Bloomberg
Period of analysis from 1/31/1992 through 6/30/2022 using monthly data

© 2022 Magnus Financial Group LLC. All Rights Reserved

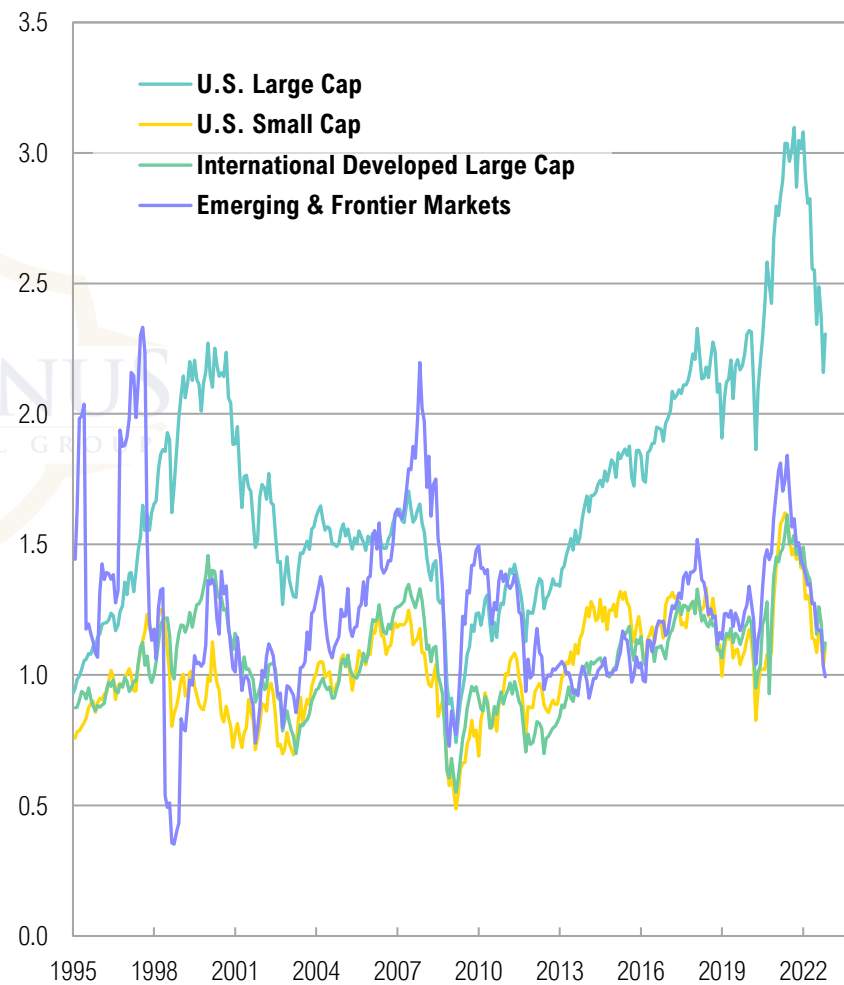
Valuations continue to contract so far this year

PRICE-TO-EARNINGS RATIO, FWD 12-MONTH



Source: Bloomberg

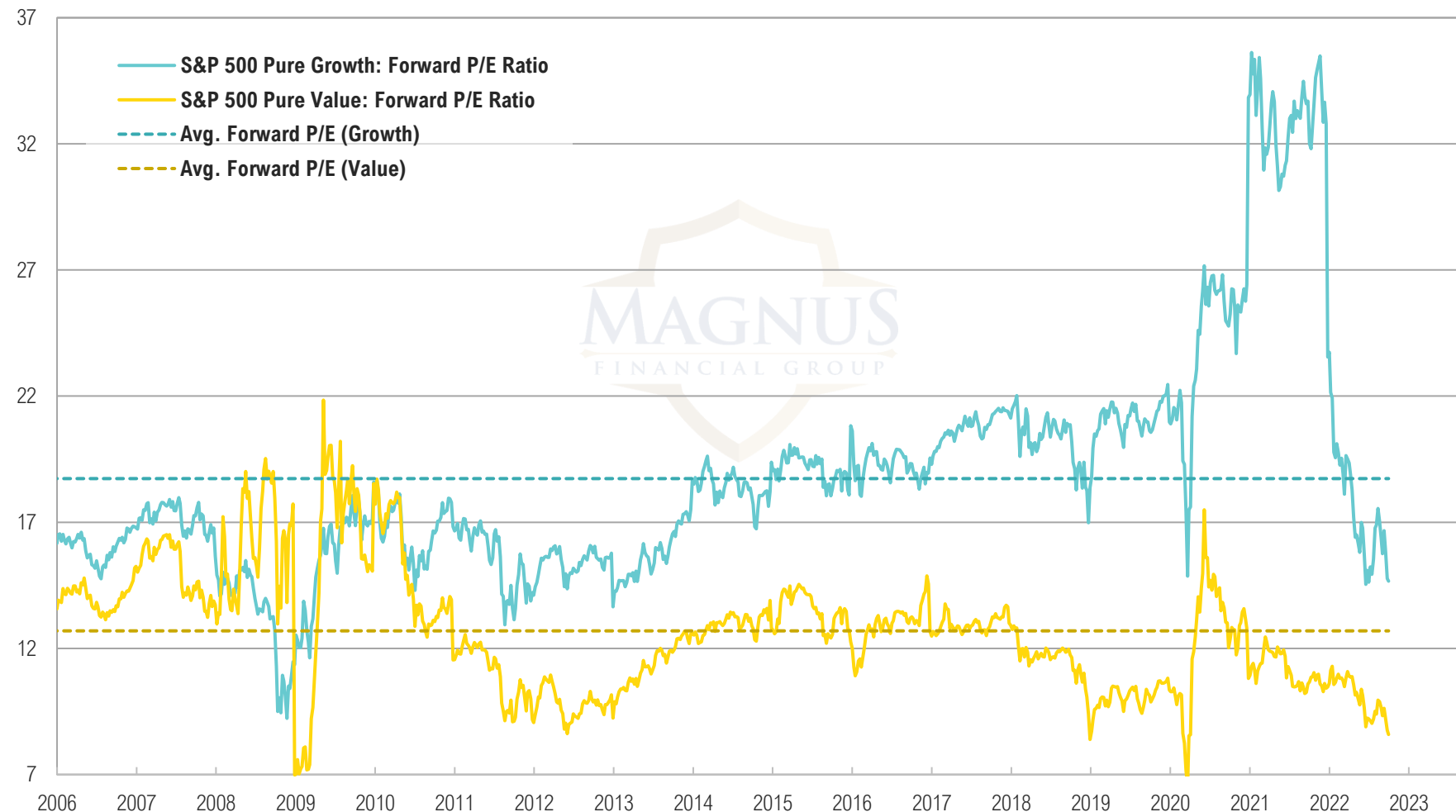
PRICE-TO-SALES RATIO



© 2022 Magnus Financial Group LLC. All Rights Reserved

Forward-looking valuations improved dramatically, but earnings estimates will now come into question given potential margin pressure; value still looks relatively cheaper (i.e., this is not 2008-2010)

S&P 500 PURE GROWTH INDEX VS. S&P PURE VALUE INDEX FORWARD P/E RATIOS

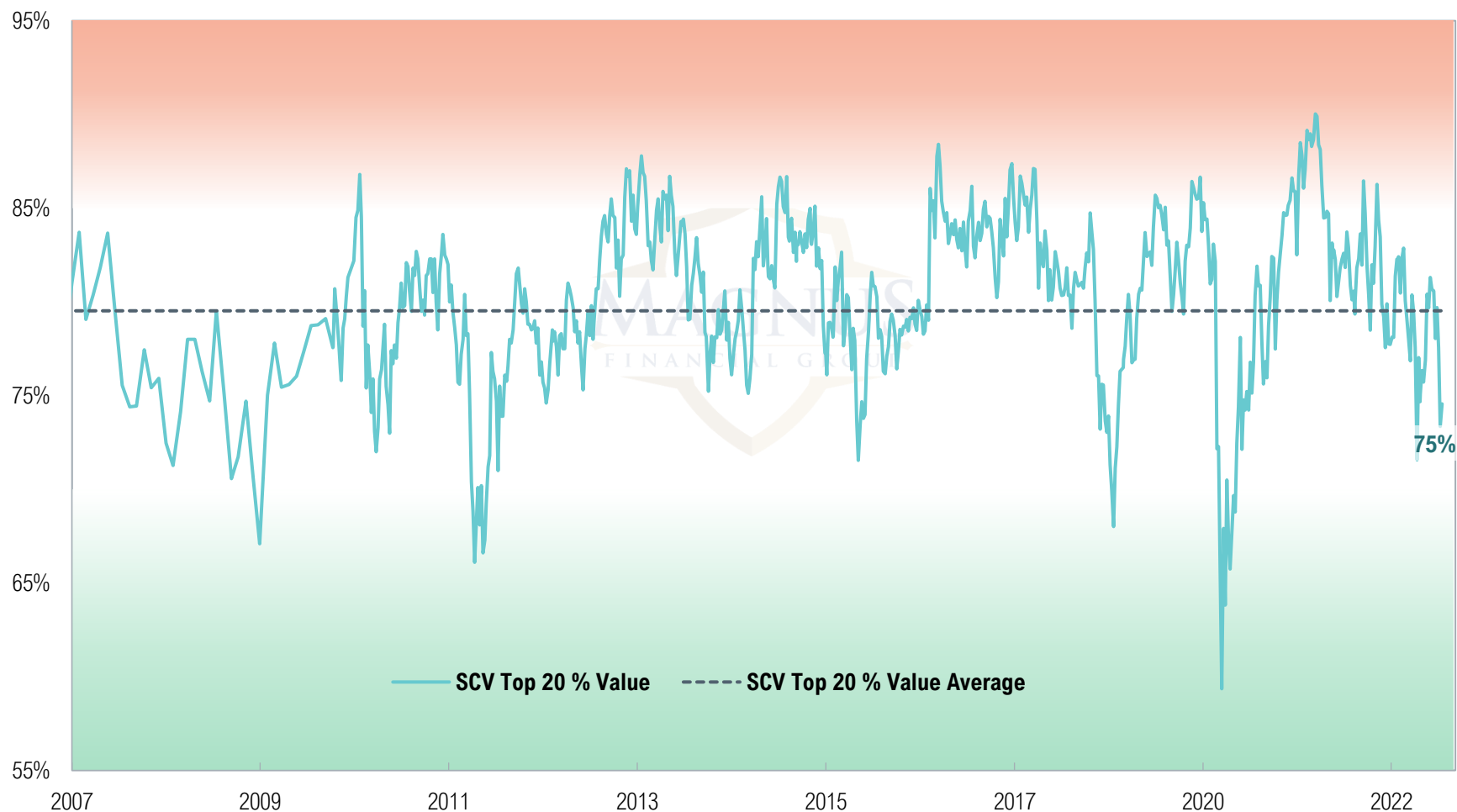


Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Within small cap value, valuations are below average, but not at levels typically seen in major market drawdowns

SMALL CAP VALUE MANAGER'S TOP 20 DISCOUNT TO VALUE METRIC

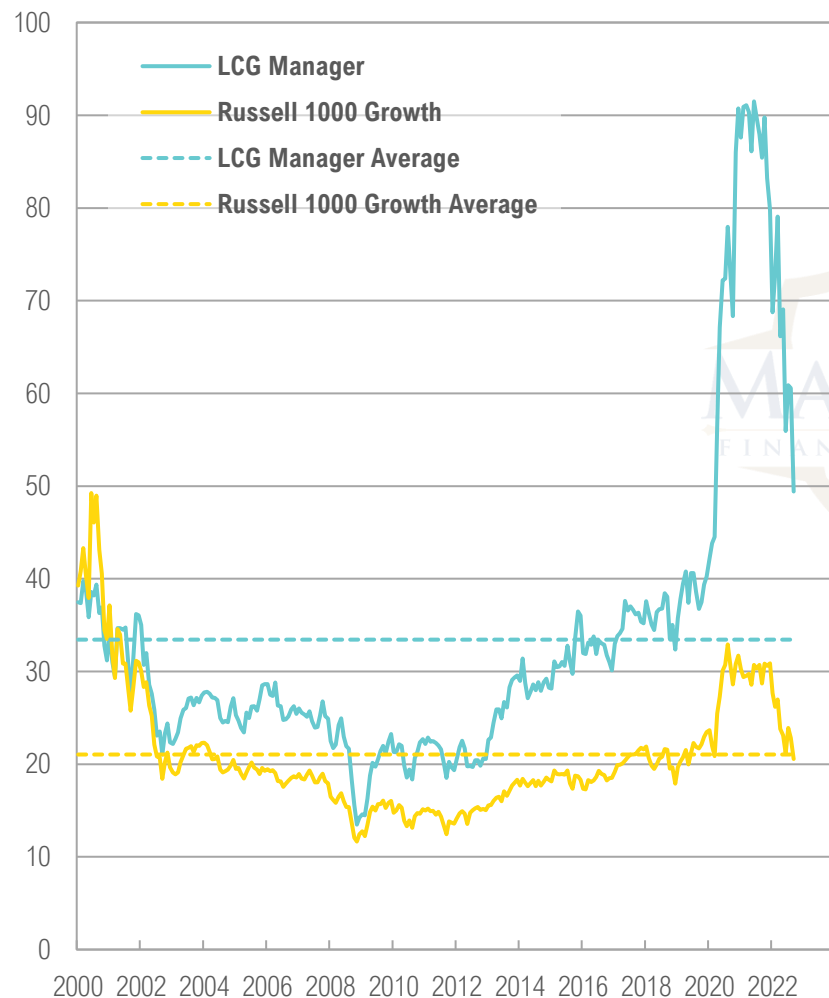


Source: River Road Asset Management

© 2022 Magnus Financial Group LLC. All Rights Reserved

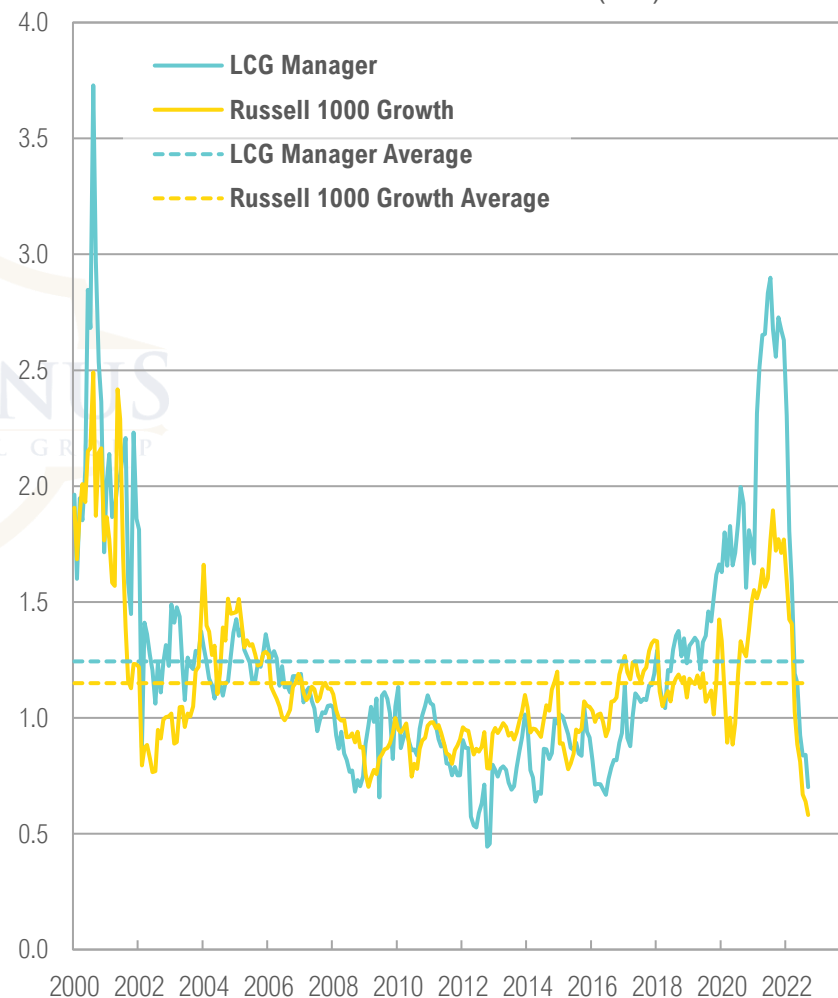
➤ Growth valuations seem attractive when accounting for high growth expectations, but they are not attractive on an absolute level

FORWARD P/E RATIO



Source: Sands Capital

FORWARD P/E RATIO TO CURRENT GROWTH RATE (PEG) RATIO



© 2022 Magnus Financial Group LLC. All Rights Reserved

Nominal sales and earnings growth expected to decelerate for remainder of 2022; impact of inflation and potential recession huge wild cards next year

S&P 500 SECTOR SALES GROWTH Y/Y, %																												
	2016				2017				2018				2019				2020				2021				2022			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4E
S&P 500	1.5	1.8	3.1	1.9	7.7	6.3	4.1	6.8	10.1	6.8	11.0	12.1	5.4	5.6	5.8	9.0	-3.6	-8.1	-2.9	0.9	8.4	18.3	15.1	11.3	15.3	17.2	9.5	5.4
Communication Services	2.2	1.2	-1.4	-4.3	-5.8	-4.0	-4.8	0.0	10.3	0.7	-20.7	-47.4	-49.5	-40.1	11.3	8.5	-2.3	-2.6	0.3	5.1	12.5	26.1	17.7	11.3	8.8	4.4	4.6	1.4
Consumer Discretionary	9.6	10.6	9.6	4.7	6.3	2.6	-0.9	1.0	10.0	7.5	18.5	24.2	14.9	10.6	7.3	3.1	-4.2	-17.4	0.2	-6.0	-6.4	22.2	-1.1	11.1	11.2	11.8	7.5	9.0
Consumer Staples	1.9	3.1	3.3	2.9	4.0	5.7	8.2	9.3	12.4	-2.7	-3.4	-4.4	-7.6	3.8	3.8	4.3	2.7	2.7	3.2	5.6	5.3	10.0	10.9	9.7	10.2	7.7	8.2	5.3
Energy	-32.1	-25.3	-10.2	-5.0	33.4	16.4	16.8	19.2	18.0	13.5	25.2	19.4	8.6	-4.1	-7.1	-4.3	-19.7	-48.0	-33.8	-32.4	0.4	102.1	85.6	80.8	58.7	78.5	56.4	23.1
Financials	-1.3	1.9	23.1	22.6	27.5	24.1	2.9	8.5	5.7	5.5	13.5	2.7	1.8	17.1	11.1	23.9	-3.8	0.4	-1.2	-3.1	23.3	7.2	3.6	8.9	0.4	-13.6	-11.4	-7.3
Health Care	12.6	9.7	5.9	2.7	1.9	2.3	2.3	2.6	7.0	12.1	16.0	21.4	15.5	10.3	13.0	11.2	12.0	4.3	7.4	9.3	8.3	18.9	12.6	11.4	14.5	10.7	7.8	5.1
Industrials	6.1	7.1	5.3	8.9	7.6	8.1	5.8	4.8	10.7	3.7	11.4	13.0	10.9	4.1	-0.3	-3.1	-14.1	-21.1	-14.8	-8.5	1.4	27.7	18.4	16.0	15.2	18.5	15.3	12.6
Information Technology	5.4	5.7	7.4	-8.9	16.8	14.6	11.0	14.9	19.3	12.0	21.9	32.8	11.3	10.1	10.7	9.2	-2.8	7.3	4.5	9.9	17.4	21.0	19.1	14.6	15.3	11.6	5.1	3.8
Materials	-3.8	-1.0	3.3	-1.3	-1.5	-2.2	0.1	6.7	10.9	10.9	23.3	18.4	12.3	11.5	-11.4	-9.8	-13.3	-20.0	-4.8	3.5	10.8	32.7	31.1	29.2	28.6	22.2	18.6	3.7
Real Estate	n/a	n/a	n/a	n/a	n/a	n/a	4.1	4.5	7.3	1.3	7.2	12.0	7.1	4.1	5.5	3.0	-2.9	-7.2	-8.8	-5.7	-0.5	16.8	14.4	14.6	17.2	10.9	7.9	1.9
Utilities	-10.5	-4.3	1.7	21.1	2.0	3.6	-15.8	-6.5	-4.0	10.8	0.4	-5.9	-6.1	-6.6	3.4	-9.3	-3.1	-18.5	-4.8	0.7	14.7	9.4	8.5	13.1	7.8	22.9	4.3	-5.5

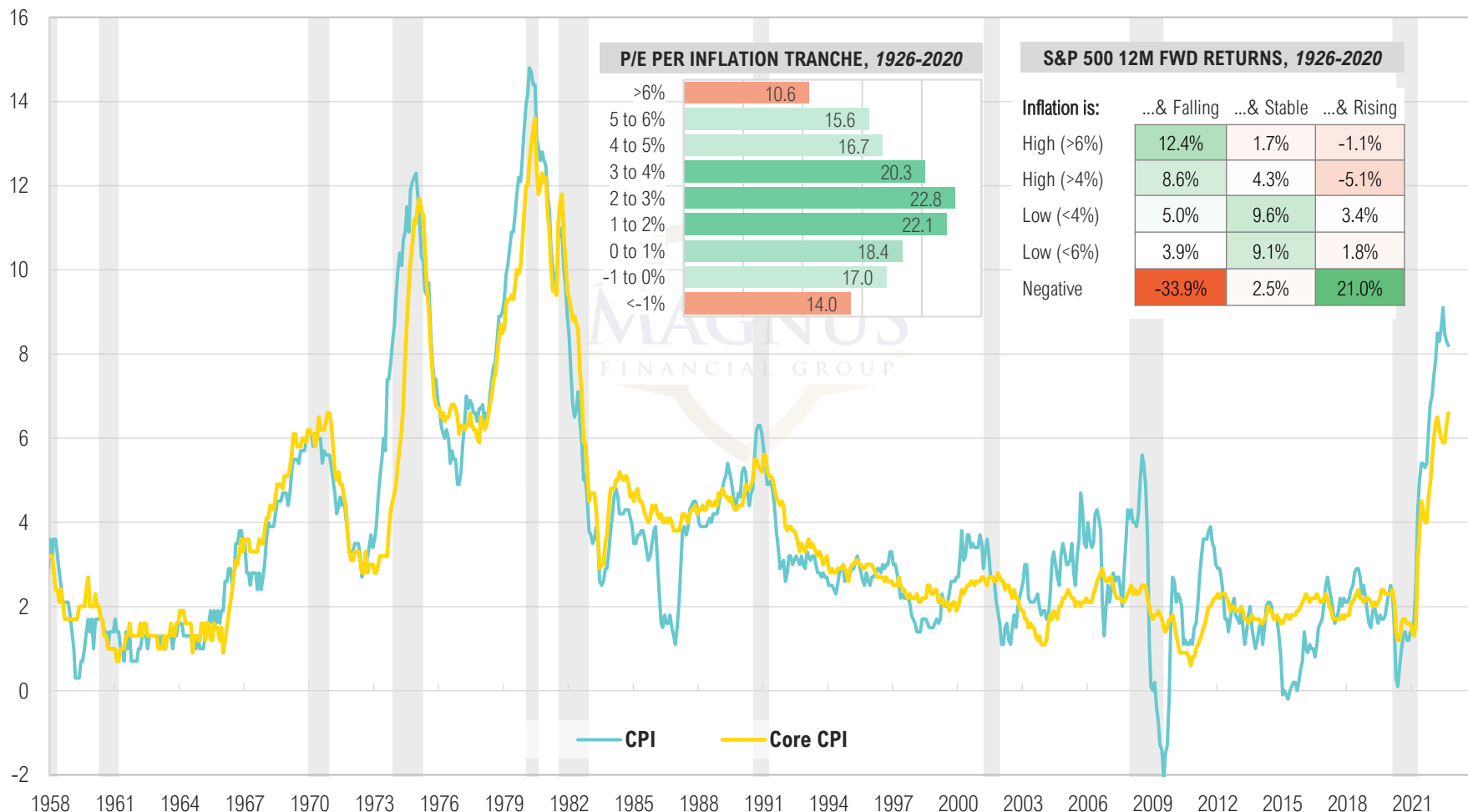
S&P 500 SECTOR EARNINGS GROWTH Y/Y, %																												
	2016				2017				2018				2019				2020				2021				2022			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4E
S&P 500	-6.1	-4.5	3.5	5.7	14.8	14.5	4.7	8.4	16.5	18.0	27.1	21.6	10.7	1.4	3.4	1.8	-15.8	-33.3	-9.9	-0.3	38.6	88.6	38.7	33.5	16.6	14.0	7.7	5.4
Communication Services	8.9	-2.9	-3.4	12.6	-4.4	5.7	1.6	1.3	-2.0	14.5	-25.0	-29.4	-24.1	-42.1	-1.3	7.6	-9.3	-15.7	-6.0	-0.4	31.8	87.8	35.8	25.1	7.0	-13.5	-13.5	1.5
Consumer Discretionary	19.4	13.7	7.2	8.5	6.2	1.6	-0.9	3.3	10.4	7.0	17.5	10.3	6.7	3.9	10.2	-5.3	-35.2	-43.0	-3.5	-3.7	48.9	140.6	-0.5	8.1	-2.1	-3.5	-5.3	23.5
Consumer Staples	-1.8	-0.8	5.4	15.0	6.1	8.6	0.1	5.8	19.6	7.3	12.5	3.6	-1.7	0.7	5.9	4.5	-2.0	-0.8	6.9	7.0	8.6	17.2	7.7	6.4	7.5	3.9	-1.9	-0.5
Energy	-108.2	-82.7	-54.6	-30.1	n/a	-35.7	77.1	130.5	34.1	98.7	120.3	100.0	88.6	-28.1	-23.6	-41.6	-63.7	-106.5	-100.8	-89.0	26.7	n/a	n/a	n/a	277.5	305.5	109.4	40.4
Financials	-8.1	-8.1	28.1	28.9	27.0	29.3	4.2	-8.1	3.6	25.4	25.4	30.5	14.9	6.0	6.7	11.9	-20.0	-40.5	-8.1	17.3	134.4	178.5	35.9	13.0	-20.1	-21.1	-10.1	0.1
Health Care	3.1	6.2	7.4	8.5	4.6	6.9	6.1	7.6	6.9	9.2	15.8	9.4	12.9	8.4	8.9	9.6	18.3	9.0	5.0	9.4	14.9	22.9	29.6	28.1	17.5	11.2	5.1	3.0
Industrials	-2.4	4.7	3.4	7.6	0.7	8.9	0.1	0.0	24.7	1.1	19.5	17.9	19.6	6.0	2.5	-10.7	-34.7	-41.9	-20.0	-34.2	-9.3	435.7	80.9	49.5	38.6	38.2	28.0	23.1
Information Technology	-1.5	-7.9	5.9	-15.0	32.2	33.8	15.1	28.2	40.5	28.0	37.3	40.9	1.5	-1.8	3.6	5.5	-15.0	1.5	7.7	18.2	45.2	53.8	40.0	24.9	23.0	15.8	-1.3	-6.7
Materials	-12.0	-5.0	13.9	19.4	15.6	8.3	8.9	4.1	13.3	5.8	58.9	29.5	1.5	-6.5	-11.0	-20.8	-30.1	-19.3	-2.2	26.8	83.4	116.1	85.5	60.4	52.4	23.1	26.4	-6.5
Real Estate	n/a	n/a	n/a	n/a	n/a	n/a	23.8	22.2	11.2	-9.6	-15.4	-18.6	5.0	9.7	6.8	19.2	-12.8	-34.7	-35.3	-8.1	20.2	121.0	82.8	45.3	53.4	11.7	24.5	-15.1
Utilities	-2.4	9.1	12.3	-24.2	0.8	3.4	-21.1	-4.7	-21.8	28.4	10.2	-42.2	-8.9	-4.2	-41.3	27.0	60.4	-13.1	1.5	-1.8	0.7	5.9	0.2	-1.5	11.0	3.4	-26.3	-48.2

Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

Historically, inflation has been a significant issue for the stock market when it is above 4%, even more so when above 6%

CPI & CORE CPI % Y/Y

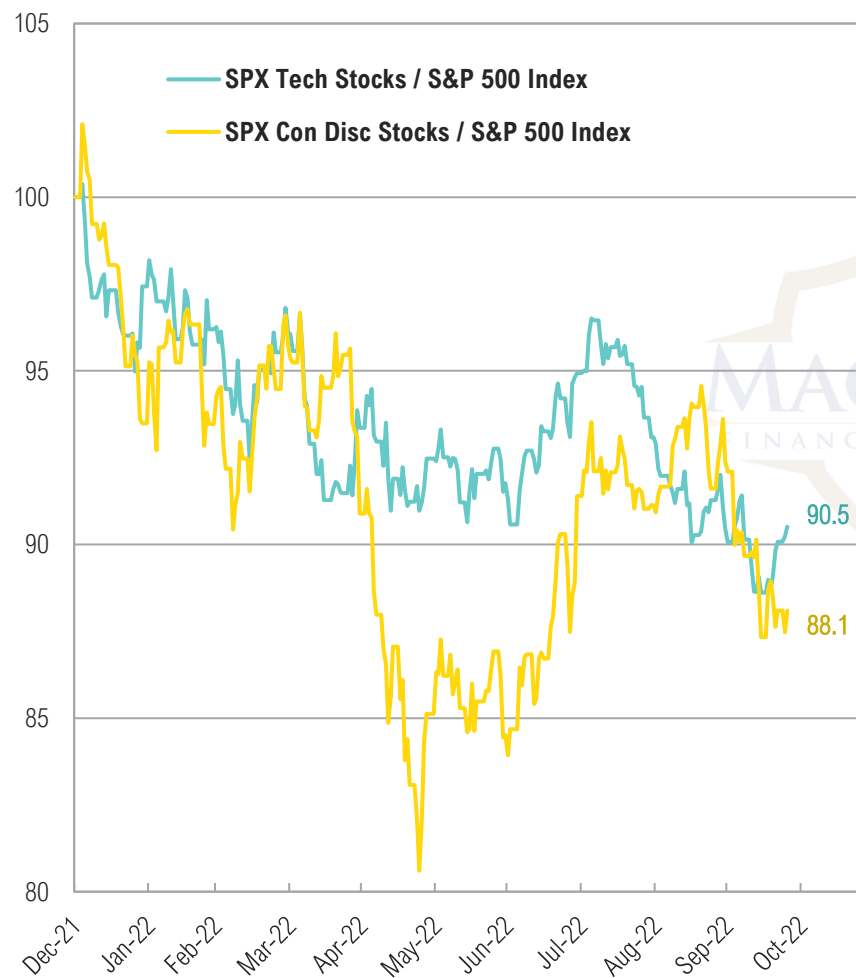


Source: Bloomberg, SpringTide calculations. S&P 500 returns are price returns. P/E is Shiller/CAPE price-to-earnings ratio.

© 2022 Magnus Financial Group LLC. All Rights Reserved

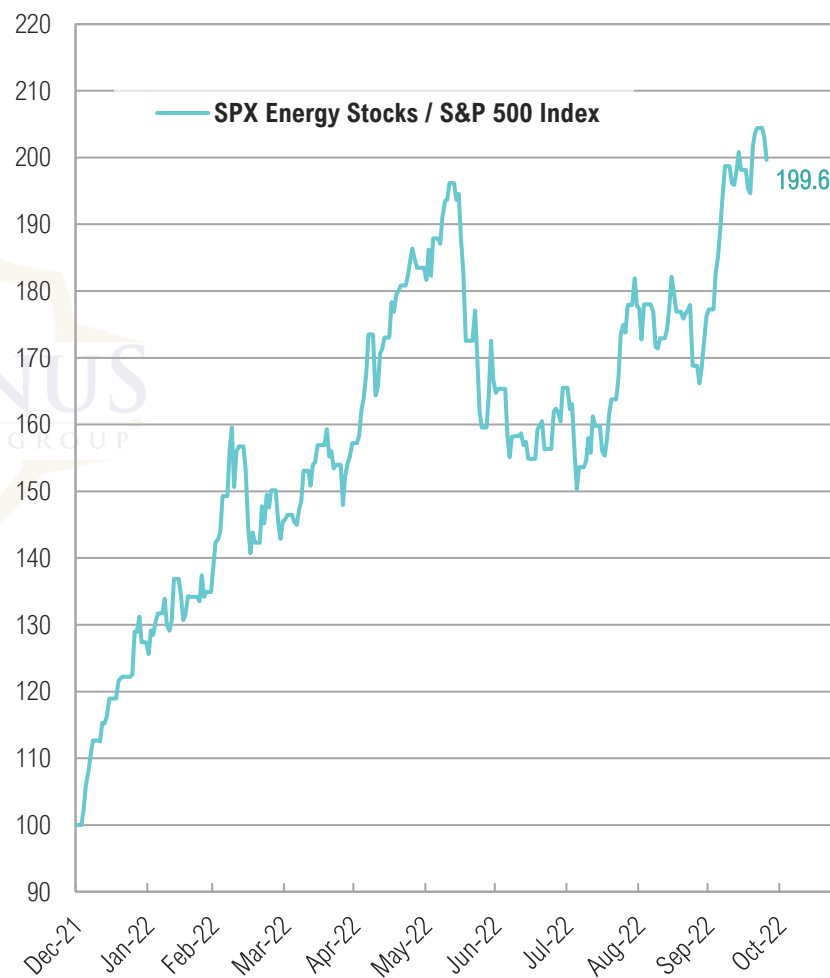
Market internals point to consumer stress; energy breaking out

RELATIVE GROWTH OF 100, YTD



Source: Bloomberg

RELATIVE GROWTH OF 100, YTD

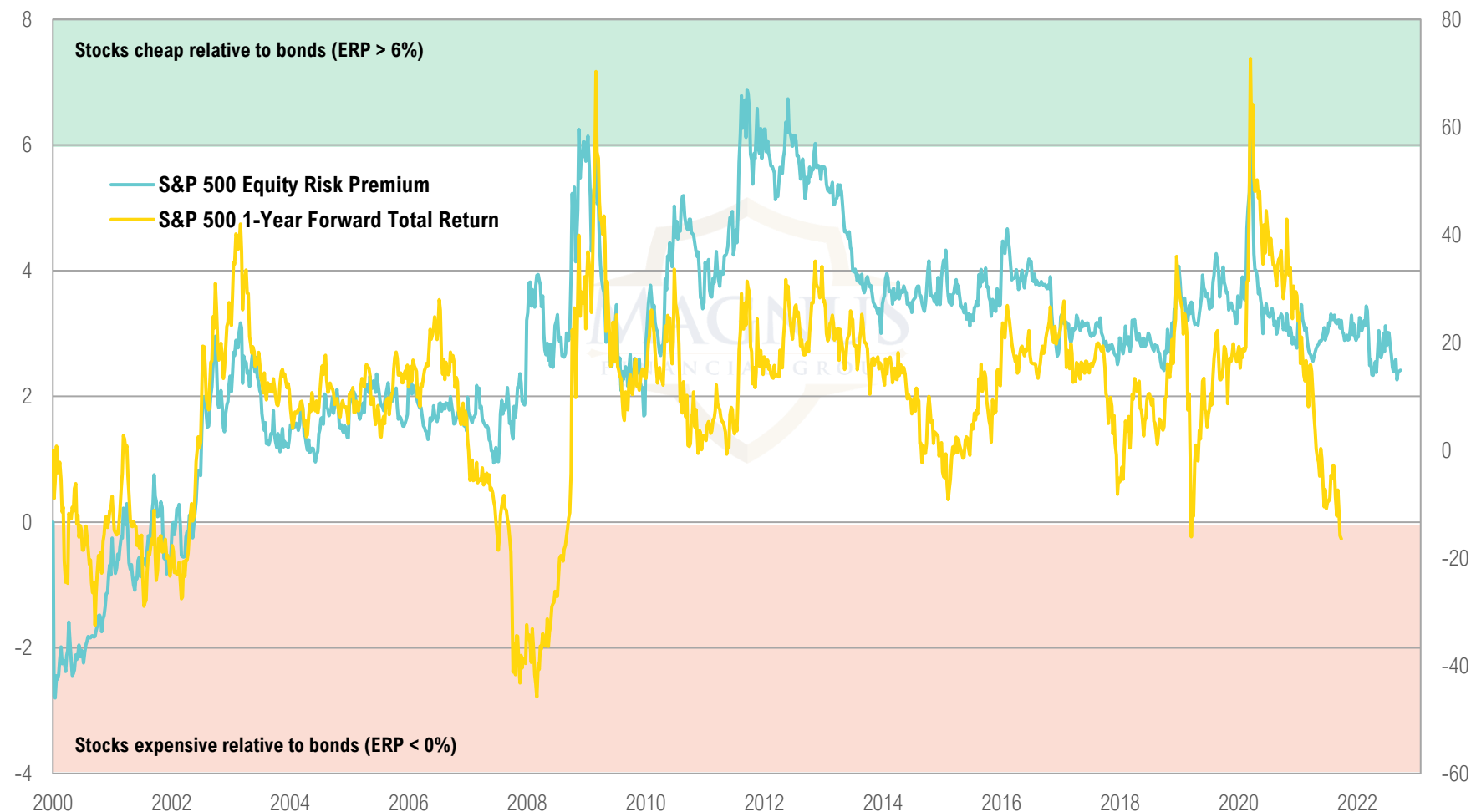


© 2022 Magnus Financial Group LLC. All Rights Reserved

Despite being in a bear market, stocks are arguably less attractively priced vis-à-vis bonds than they were coming into the year

S&P 500 FORWARD EARNINGS YIELD MINUS 10-YR US TREASURY, %

S&P 500 1-YR FORWARD RETURN

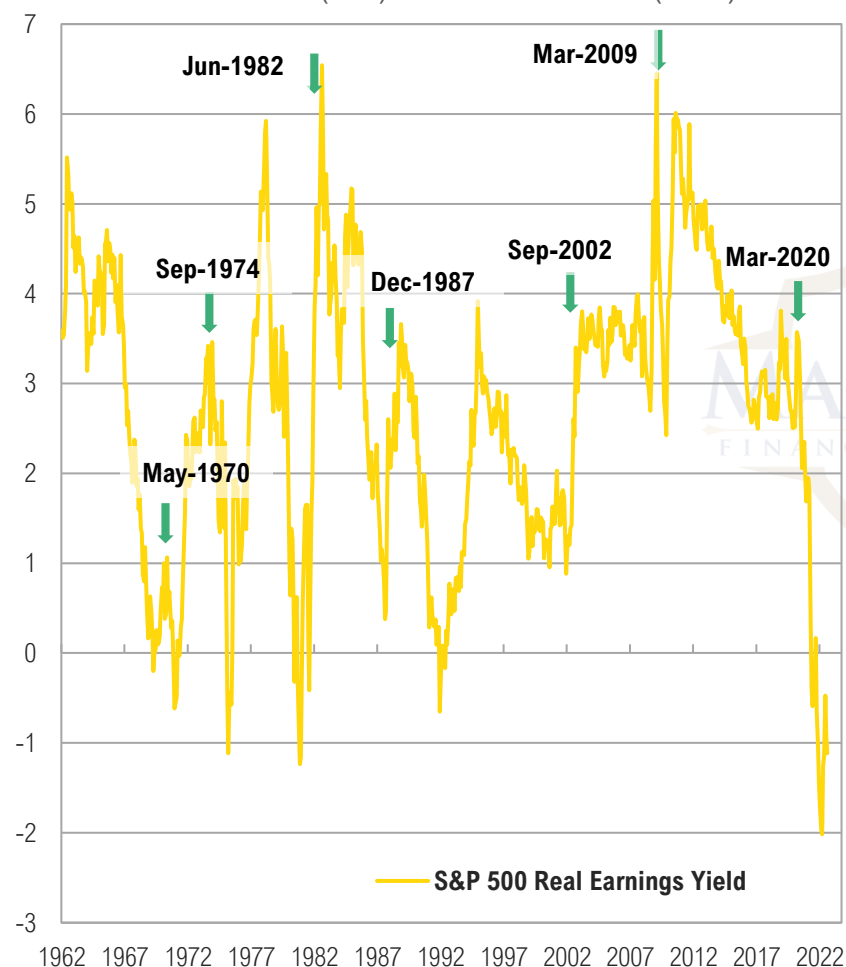


Equity risk premium calculated as S&P 500 earnings yield minus 10-year Treasury yield.

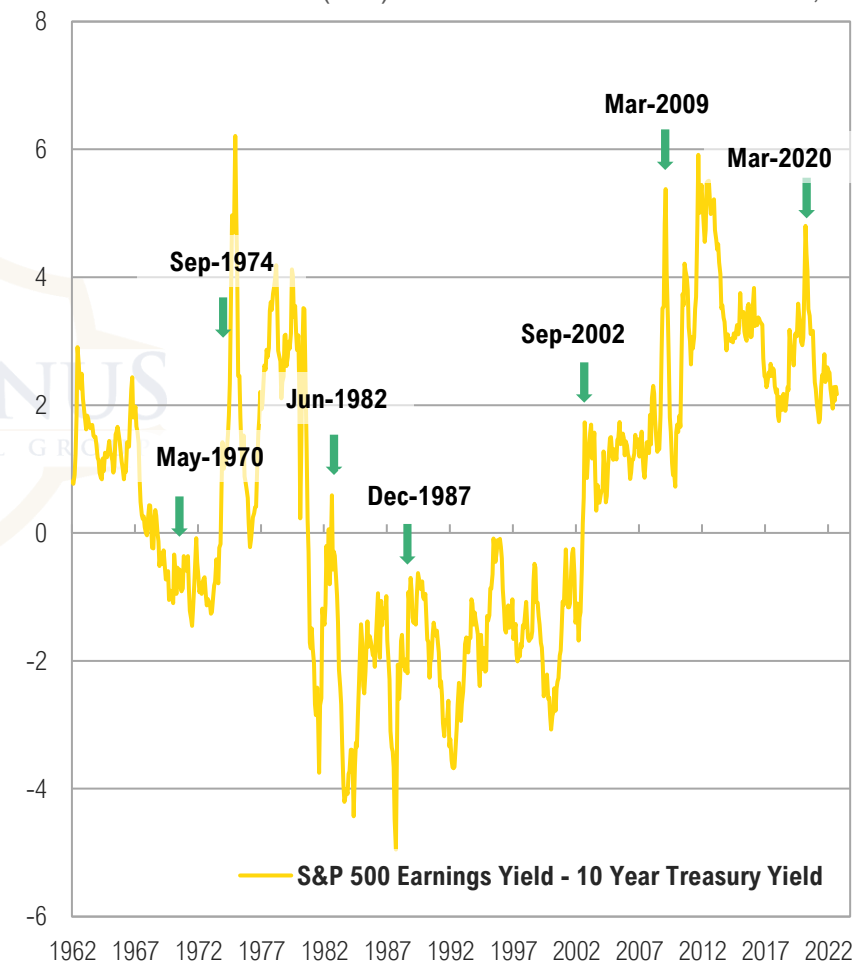
© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ The S&P 500 real earnings yield is still negative and substantially lower than previous bear market lows

S&P 500 EARNINGS YIELD (TTM) MINUS U.S. CORE CPI (% Y/Y)



S&P 500 EARNINGS YIELD (TTM) MINUS U.S. 10 YR TREASURY YIELD, %

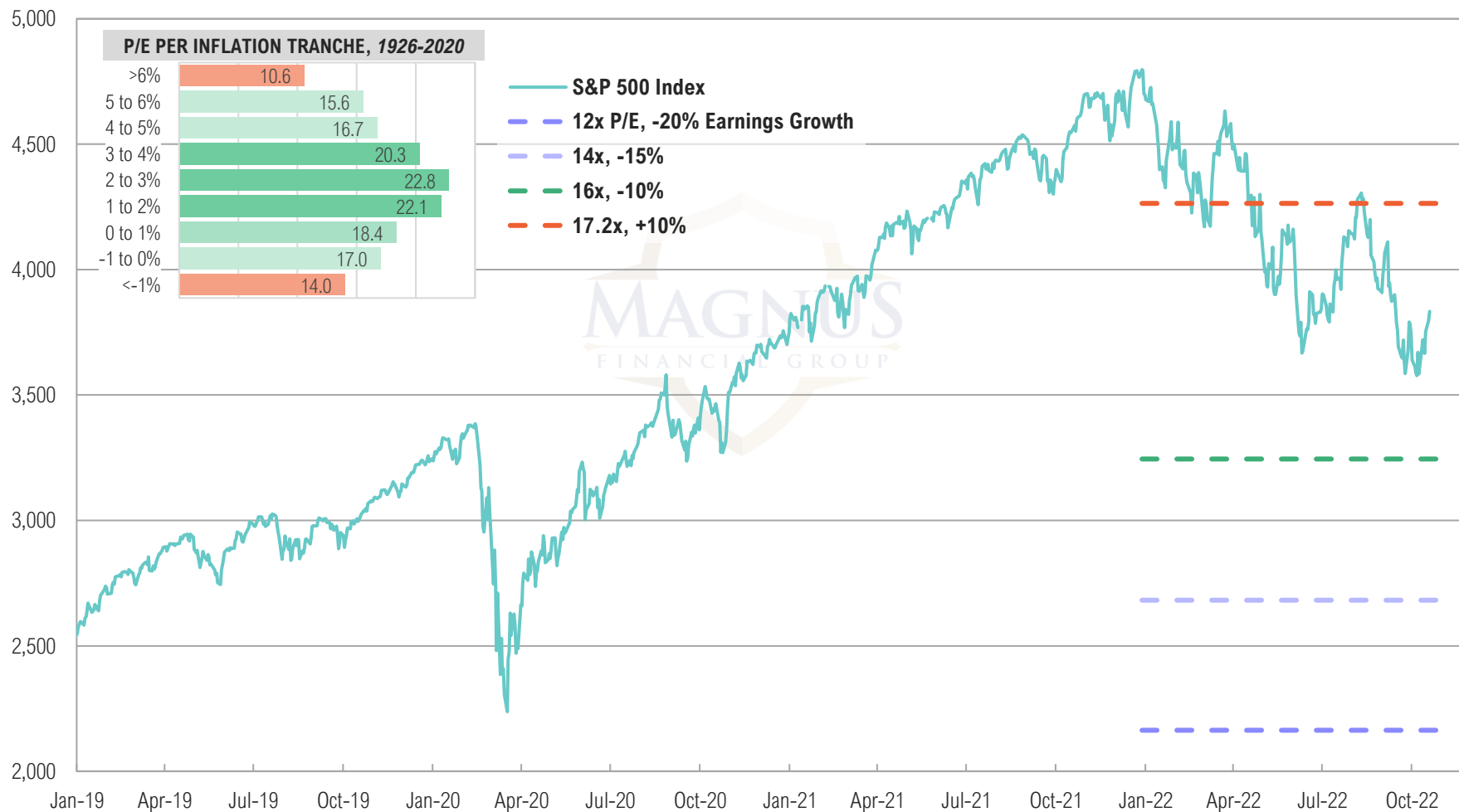


Source: Bloomberg. As at 8/31/2022

© 2022 Magnus Financial Group LLC. All Rights Reserved

Tranching in equities: P/E multiple levels to consider are 16x, 14x, and 12x, applied to various levels of earnings decline

S&P 500 INDEX

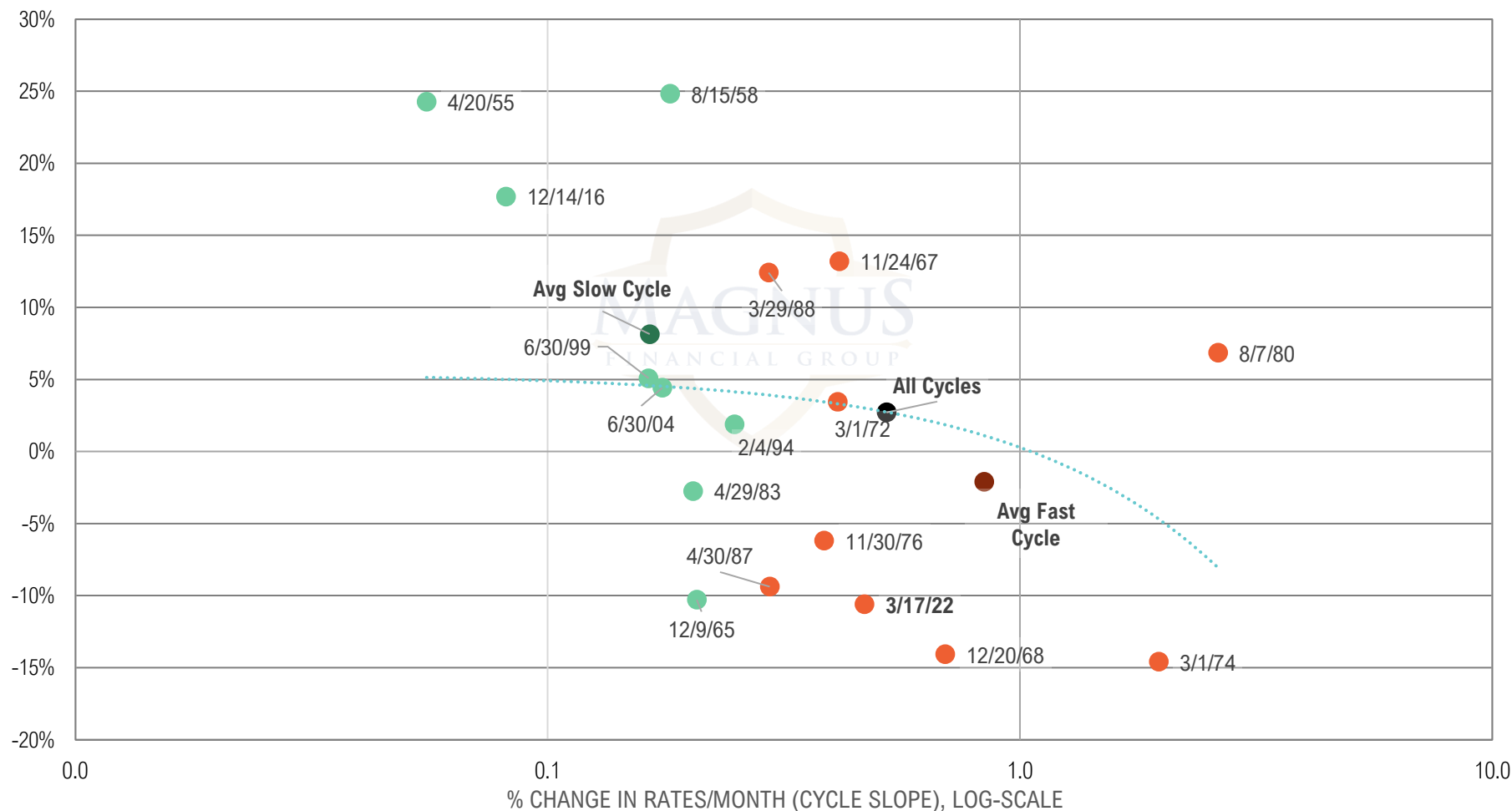


Source: SpringTide, Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

Fast hiking cycles correlate with poor returns following first rate hike; this cycle's hike pace combined with QT make it more restrictive than this chart suggests

S&P 500 1-YEAR TOTAL RETURN FOLLOWING FIRST HIKE

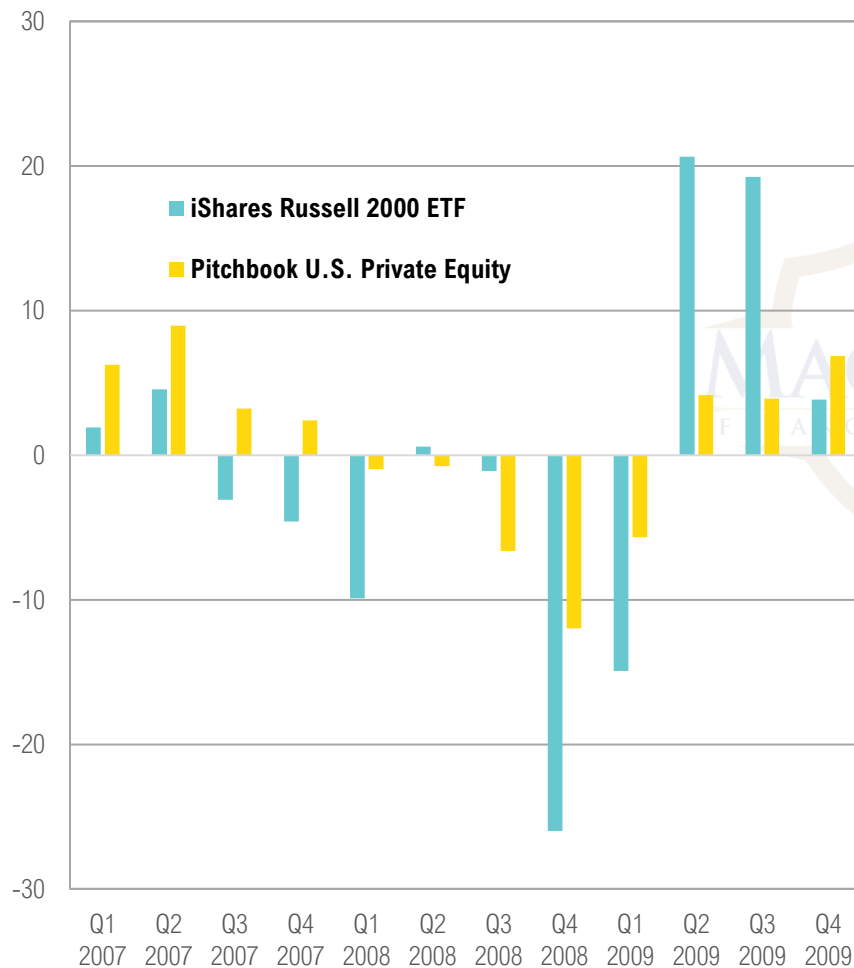


Source: Bloomberg, SpringTide Calculations

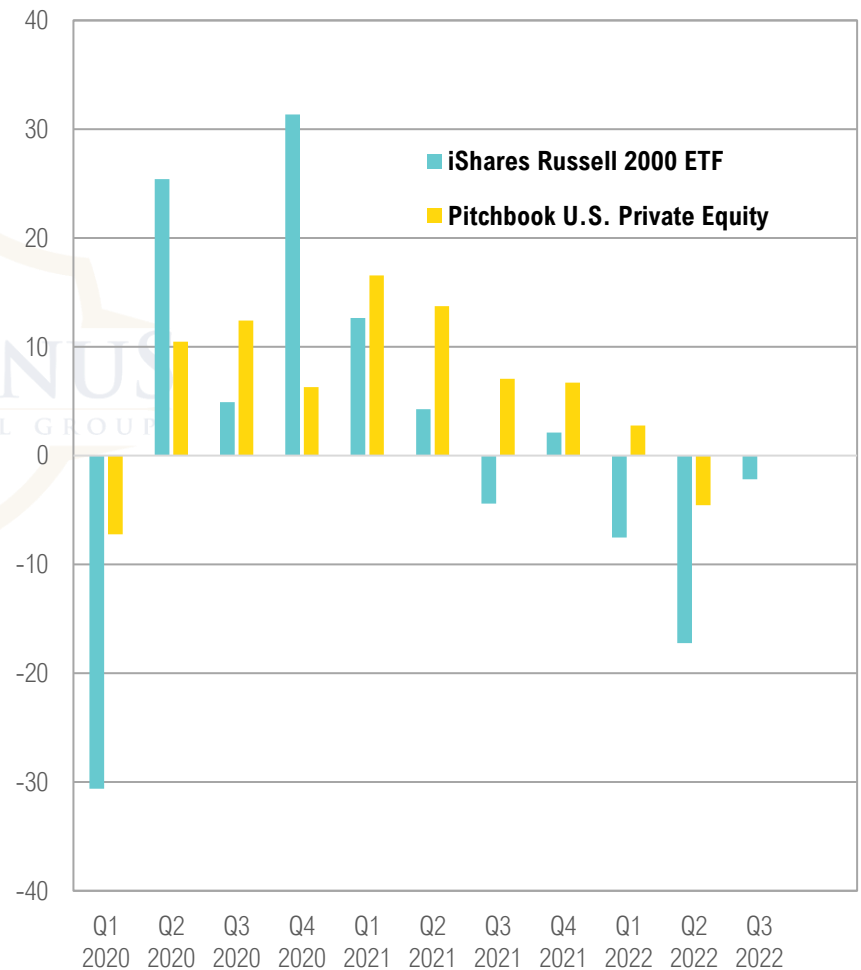
© 2022 Magnus Financial Group LLC. All Rights Reserved

Private equity funds have not marked down their portfolios like they did in the GFC

QUARTERLY TOTAL RETURNS, %



QUARTERLY TOTAL RETURNS, %



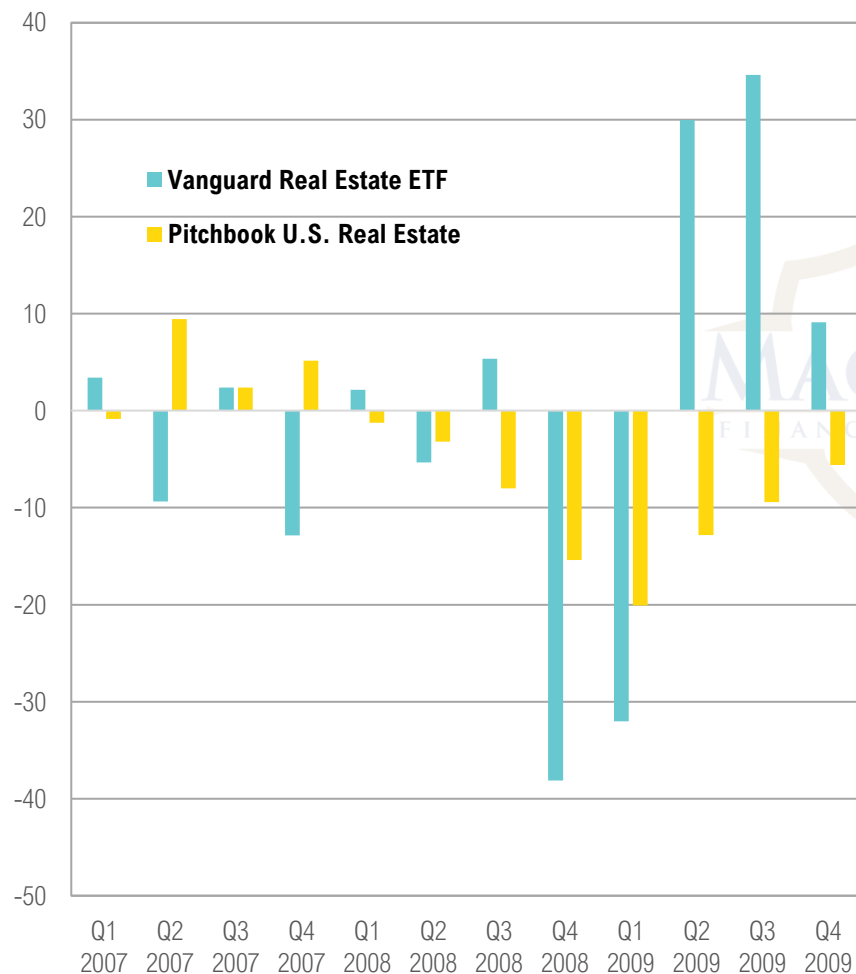
Source: Pitchbook, Bloomberg, Cambridge Associates

2Q 2022 Private Equity Returns use the Cambridge Associates Private Equity Benchmark as of 6/30/2022

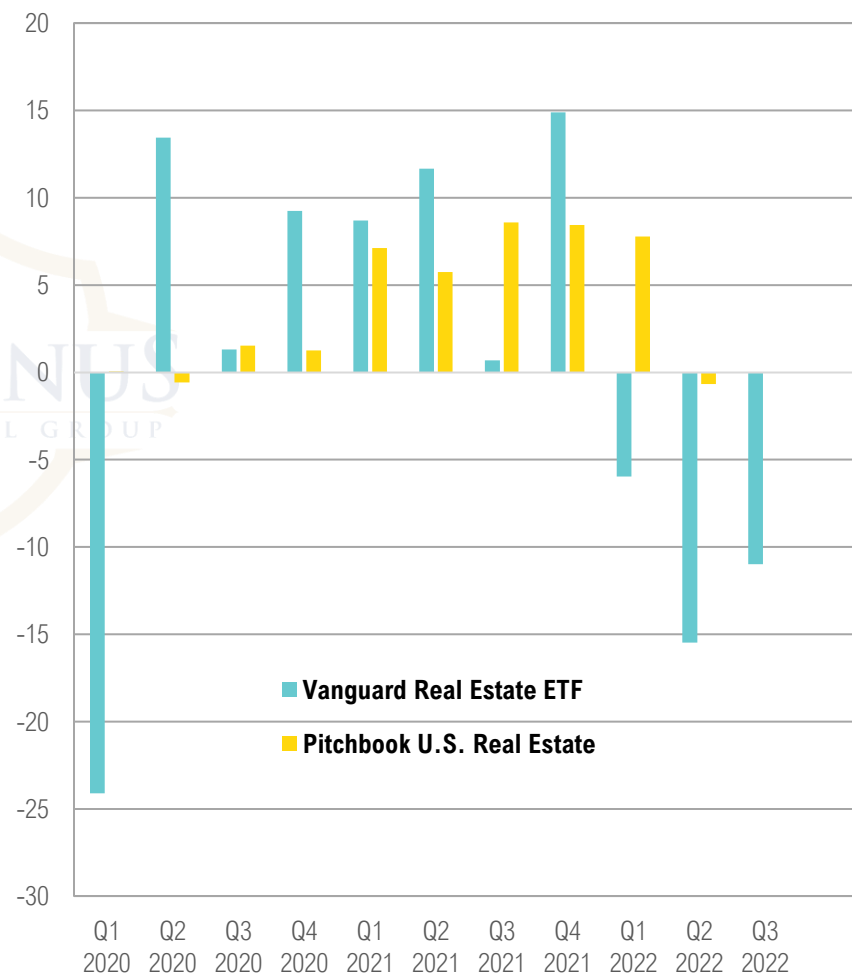
© 2022 Magnus Financial Group LLC. All Rights Reserved

The same dynamic is happening in private real estate

QUARTERLY TOTAL RETURNS, %



QUARTERLY TOTAL RETURNS, %



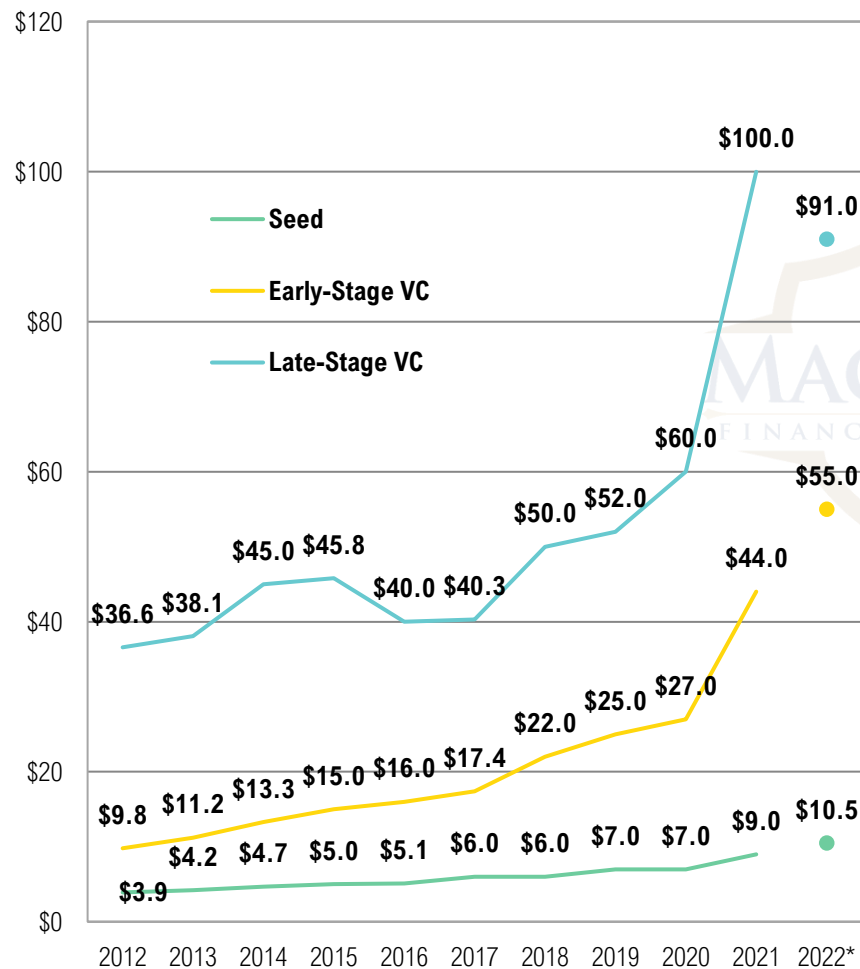
Source: Pitchbook, Bloomberg, Cambridge Associates

2Q 2022 Private Real Estate returns use the Cambridge Associates Real Estate Benchmark as of 6/30/2022

© 2022 Magnus Financial Group LLC. All Rights Reserved

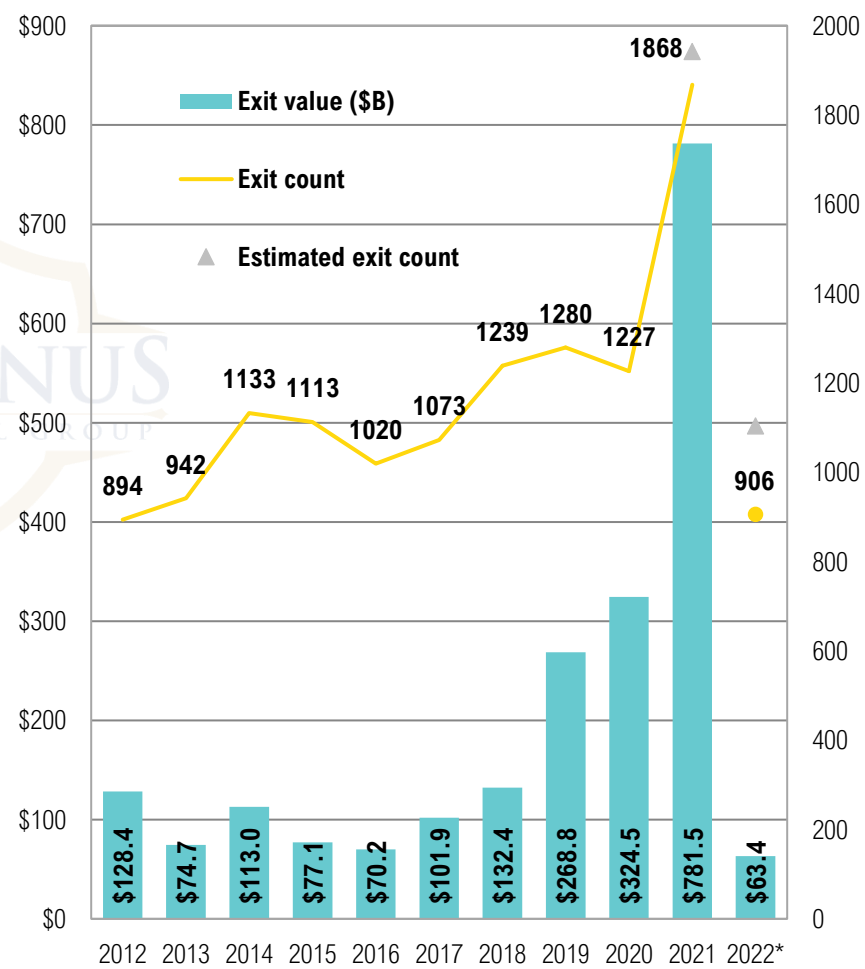
Venture valuations remain high while exits are on pace for lowest year since 2016

US VC MEDIAN PRE-VALUE BY STAGE (\$Mn)



US VC EXIT ACTIVITY (\$Bn)

NUMBER OF EXITS



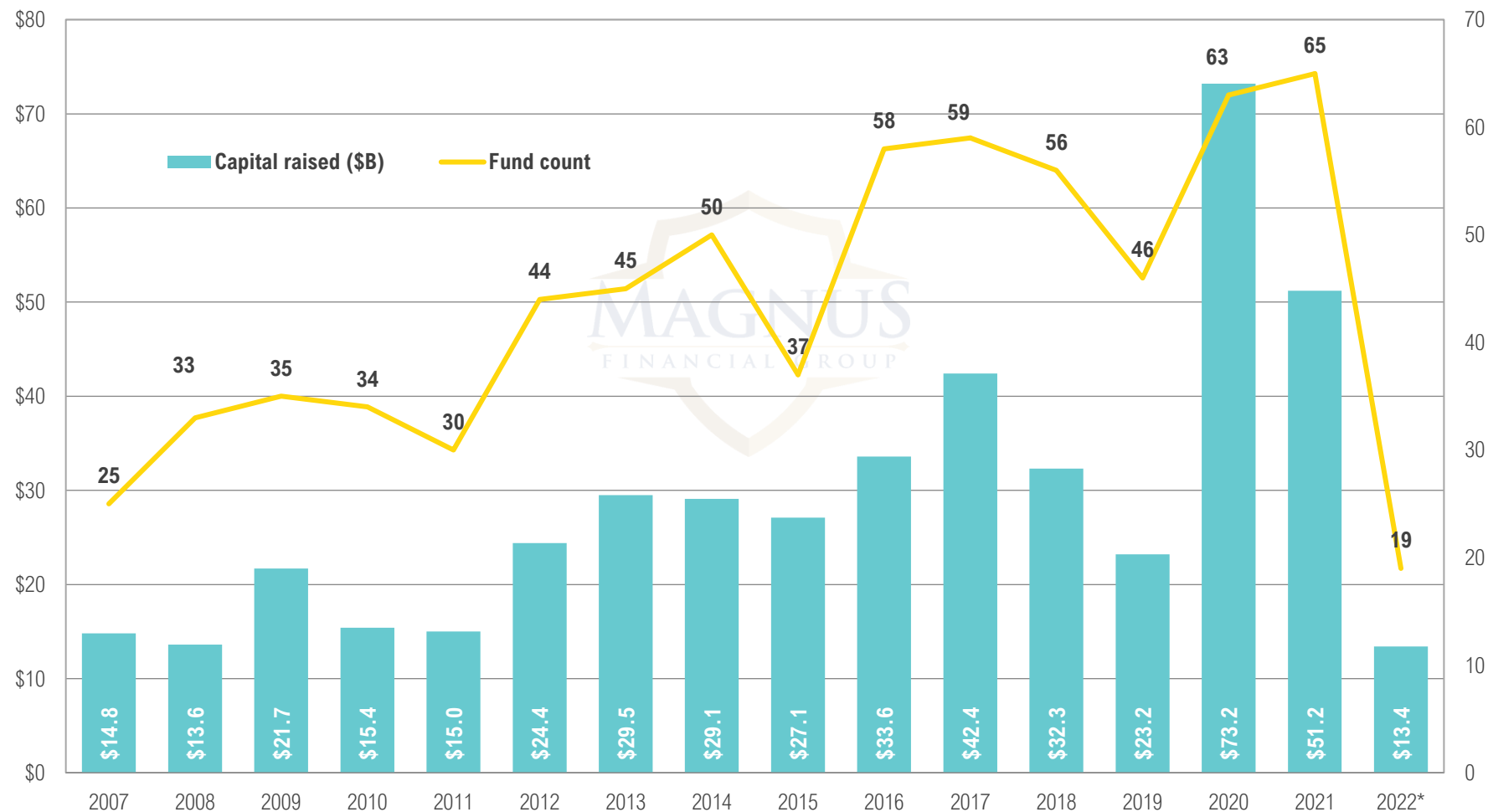
Source: Pitchbook. *As of 9/30/2022

© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Secondaries fundraising activity on pace for a 10-year low

SECONDARIES FUNDRAISING ACTIVITY (\$Bn)

NUMBER OF FUNDS LAUNCHED



Source: Pitchbook
 *As of 6/30/2022

© 2022 Magnus Financial Group LLC. All Rights Reserved

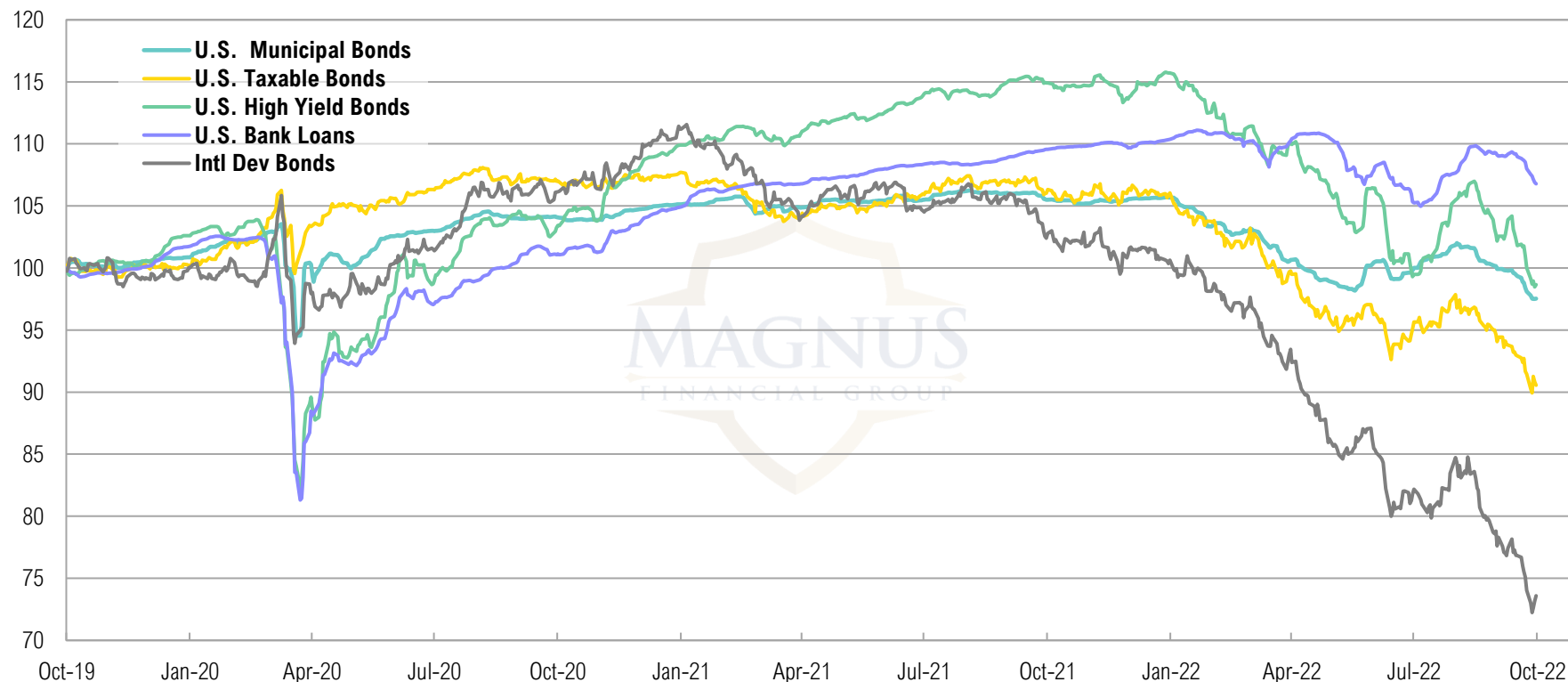


**I trust that many of you are familiar with the story of Peter Pan,
in which it says, 'the moment you doubt whether you can fly,
you cease forever to be able to do it.**

– Haruhiko Kuroda, Bank of Japan governor, February 12, 2016 (describing their unorthodox monetary policy)

Most U.S. fixed income and credit asset classes were down over the quarter; international developed bonds fared the worst and are now down over the last decade

CALENDAR YEAR & TRAILING TOTAL RETURNS



Asset Class	Benchmark	MTD	QTD	YTD	1-Yr	3-Yr	5-Yr	10-Yr	2021	2020	2019	2018	2017
U.S. Municipal Bonds	BBgBarc Municipal 1-10Y Blend 1-12Y TR	-2.6	-2.3	-7.7	-7.6	-0.8	0.7	1.4	0.5	4.2	5.6	1.6	3.5
U.S. Taxable Bonds	BBgBarc US Agg Bond TR	-4.3	-4.8	-14.6	-14.6	-3.3	-0.3	0.9	-1.5	7.5	8.7	0.0	3.5
U.S. High Yield Bonds	BBgBarc US Corporate High Yield TR	-4.0	-0.6	-14.7	-14.1	-0.5	1.6	3.9	5.3	7.1	14.3	-2.1	7.5
U.S. Bank Loans	S&P/LSTA Leveraged Loan TR	-2.3	1.4	-3.3	-2.5	2.2	3.0	3.5	5.2	3.1	8.6	0.4	4.1
Intl Dev Bonds	S&P International Sov Ex-US Bond TR	-6.6	-10.0	-26.9	-28.1	-9.7	-5.2	-2.5	-9.5	11.2	4.6	-2.3	11.3

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

© 2022 Magnus Financial Group LLC. All Rights Reserved

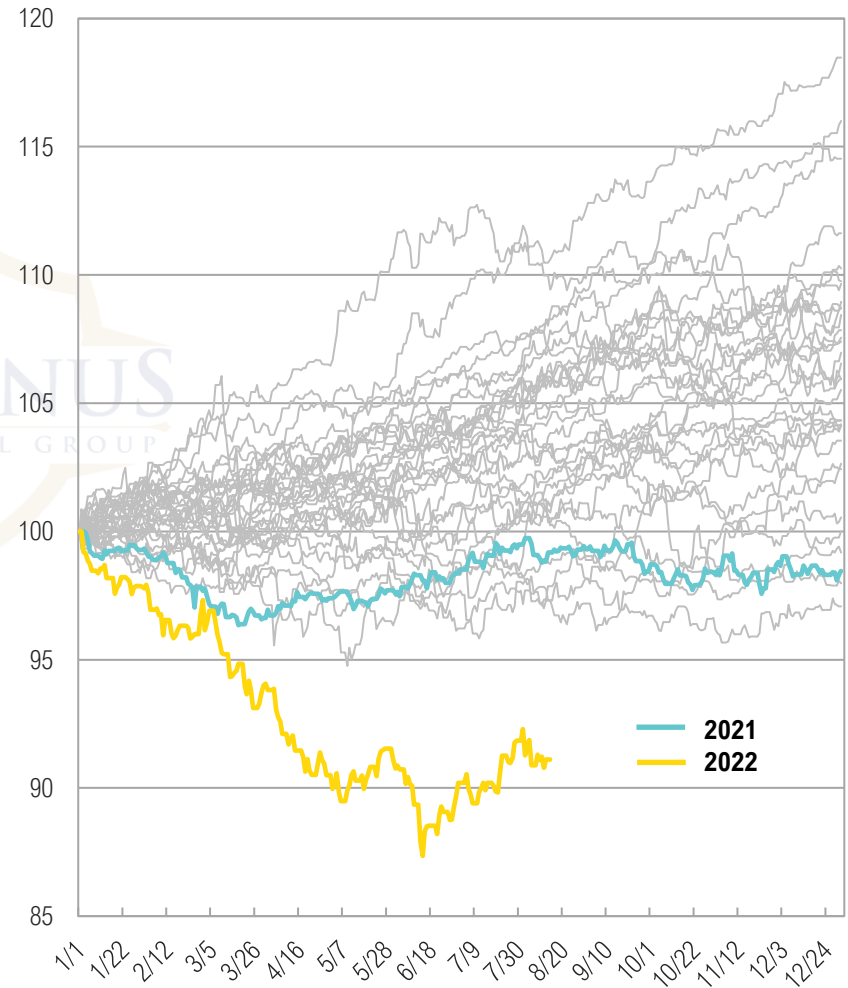
➤ The treasury market has been an enabler of increasing deficit spending and debt levels...is it now “Fed up”?

10-YEAR TREASURY YIELD, %



Source: Bloomberg, whitehouse.gov

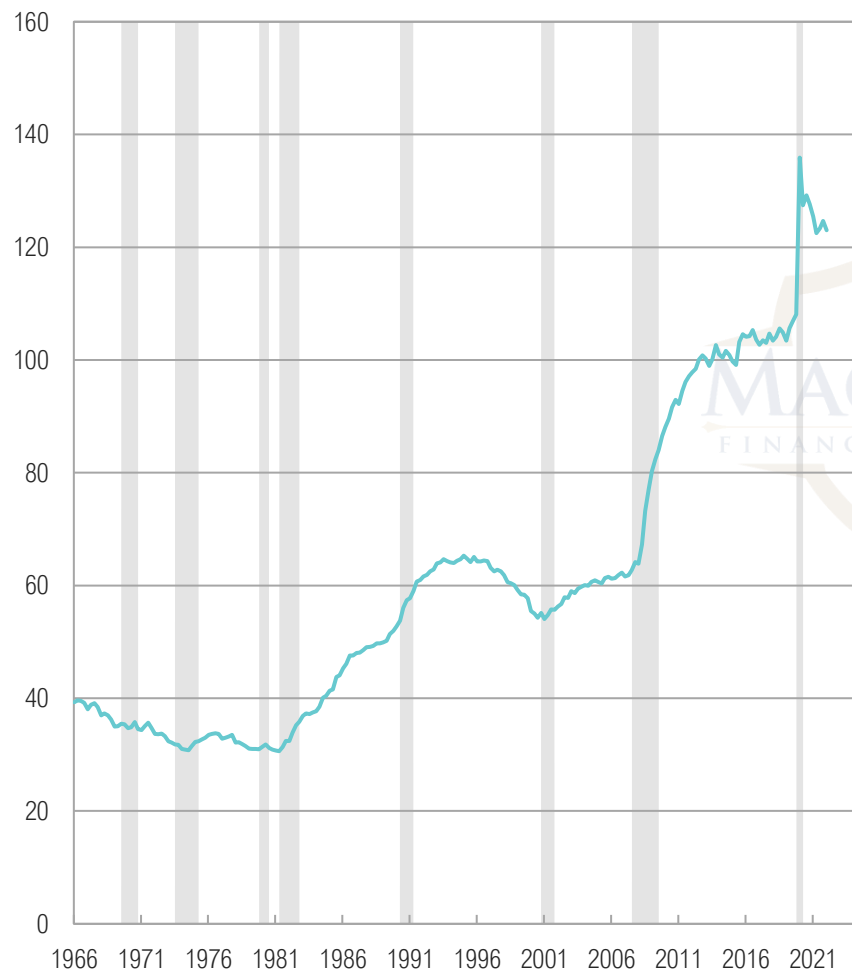
U.S. DEBT-TO-GDP RATIO, %



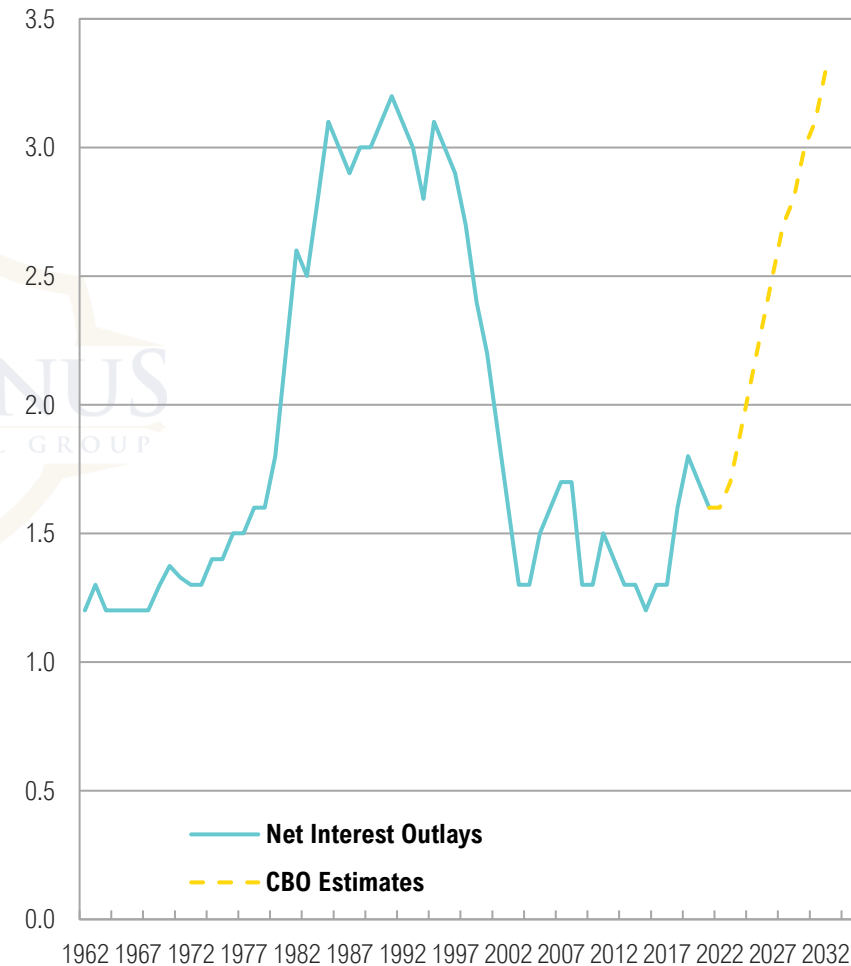
© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ The treasury market has been an enabler of increasing deficit spending and debt levels...is it now “Fed up”?

FEDERAL DEBT TO PUBLIC DEBT



NET INTEREST, % OF GDP



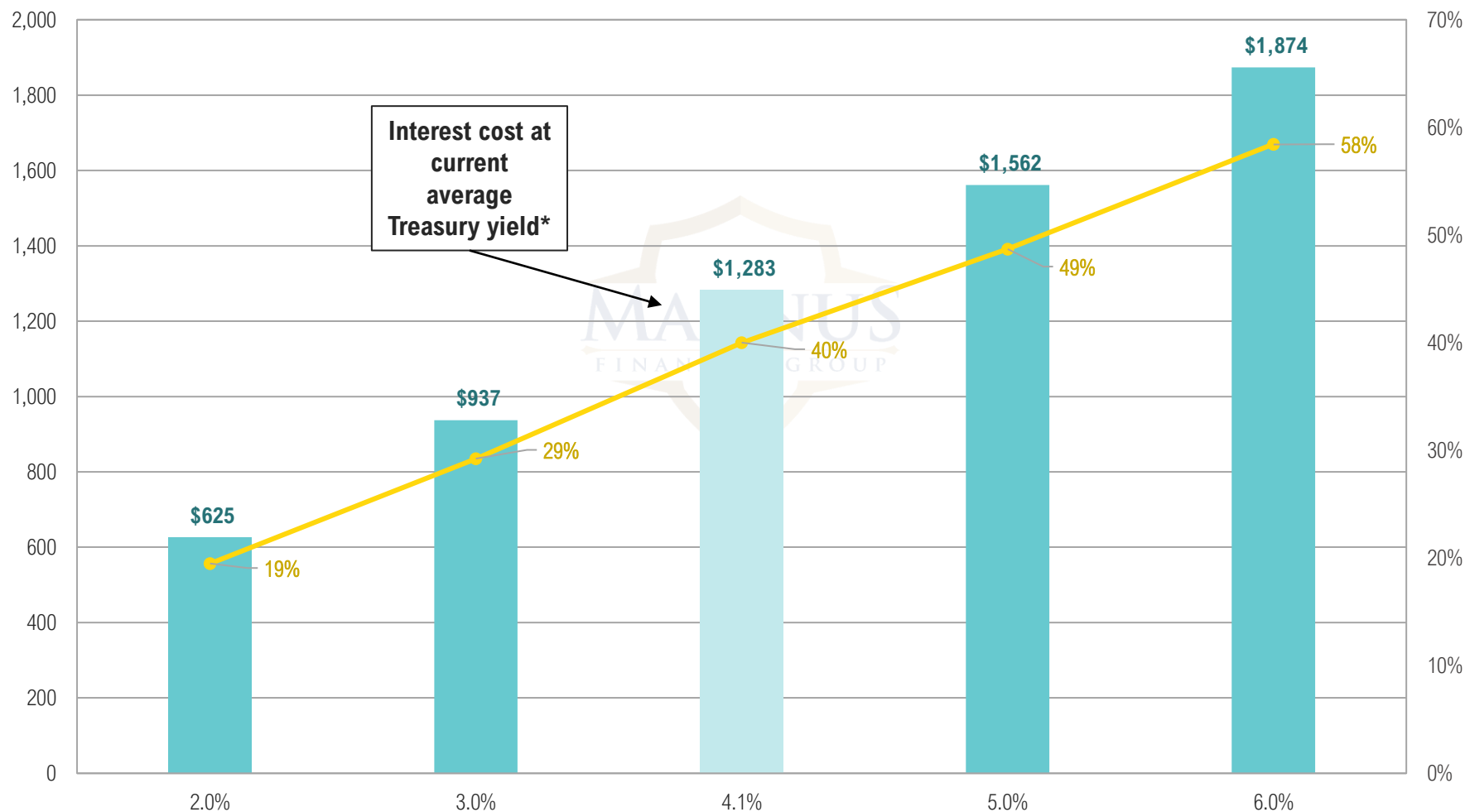
Source: Bloomberg, whitehouse.gov

© 2022 Magnus Financial Group LLC. All Rights Reserved

The treasury market has been an enabler of increasing deficit spending and debt levels...is it now “Fed up”?

ESTIMATED ANNUAL INTEREST COST BY RATE, \$BN

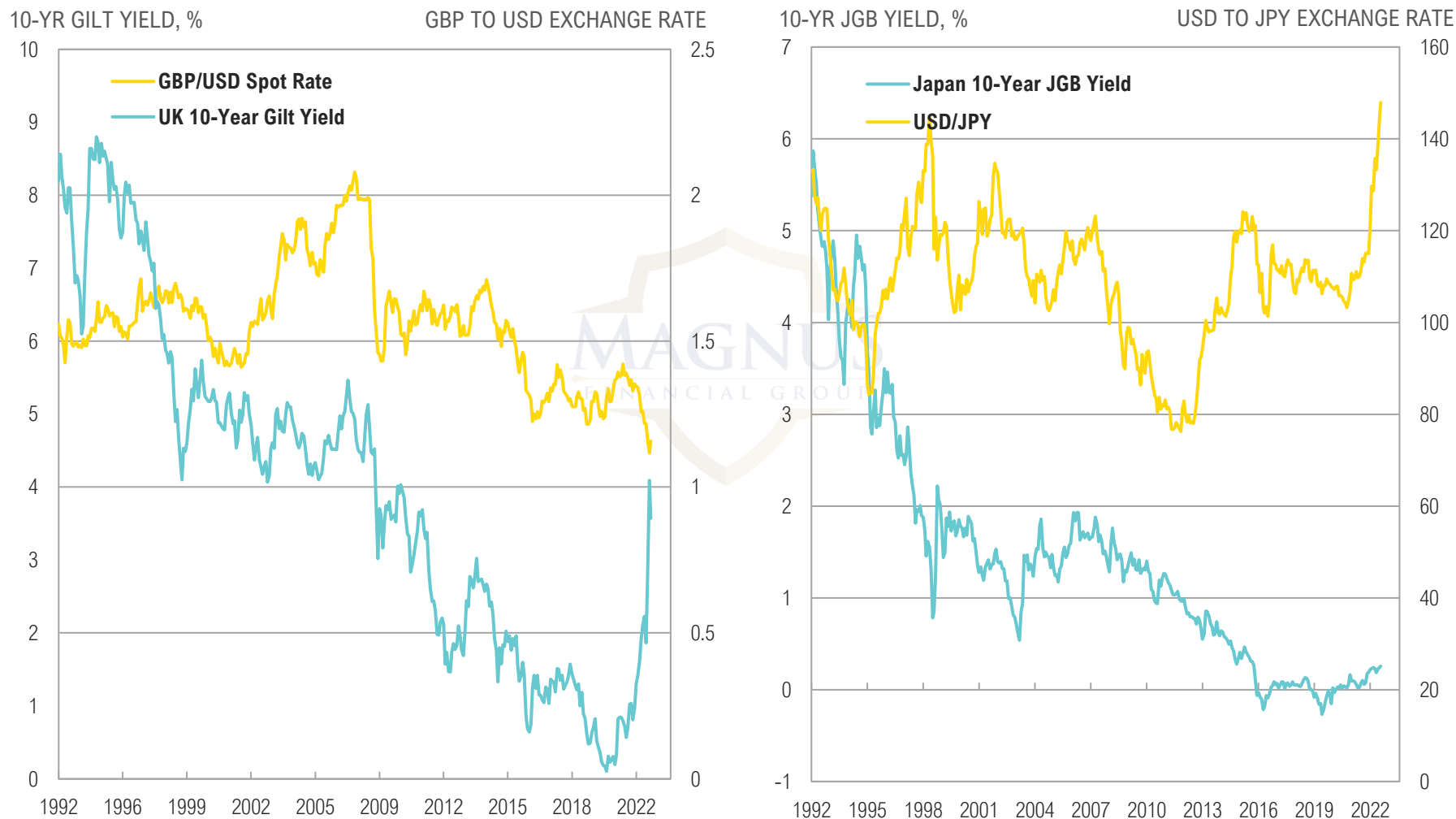
INTEREST COST AS % OF CURRENT TAX-RECEIPTS



Source: Bloomberg. *Assumes average yield is equal to the 7-year Treasury yield (based on similar weighted average maturity).

© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Market increasingly punishing policy mistakes, especially when you're not the global reserve currency



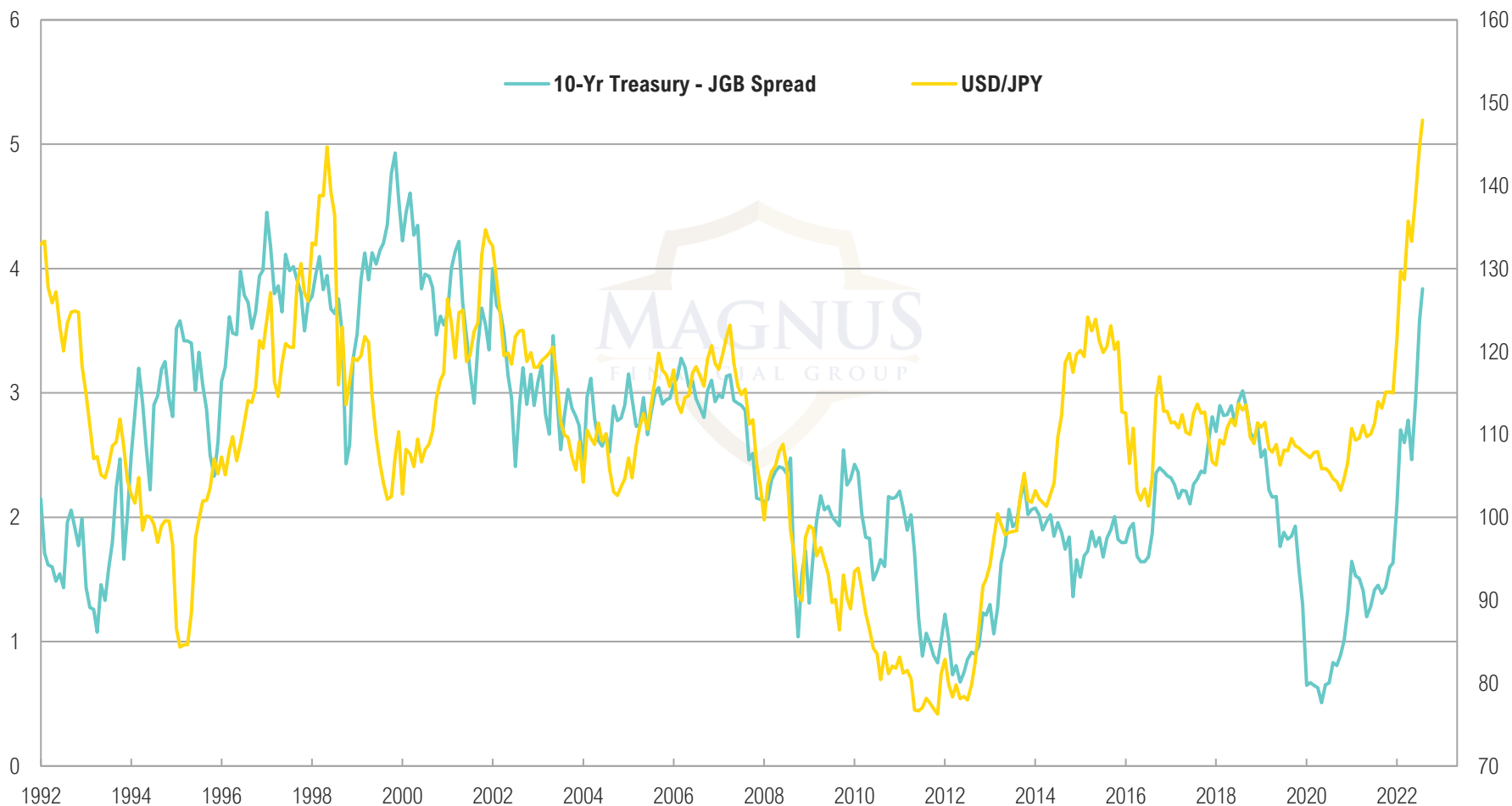
Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ The yen has weakened to a 20-year low against the dollar as the BOJ continues its infinite QE; US Treasuries remain attractive vs JGB's

U.S. 10-YR TREASURY YIELD MINUS 10-YR JGB YIELD, %

U.S. DOLLAR TO JAPANESE YEN EXCHANGE RATE

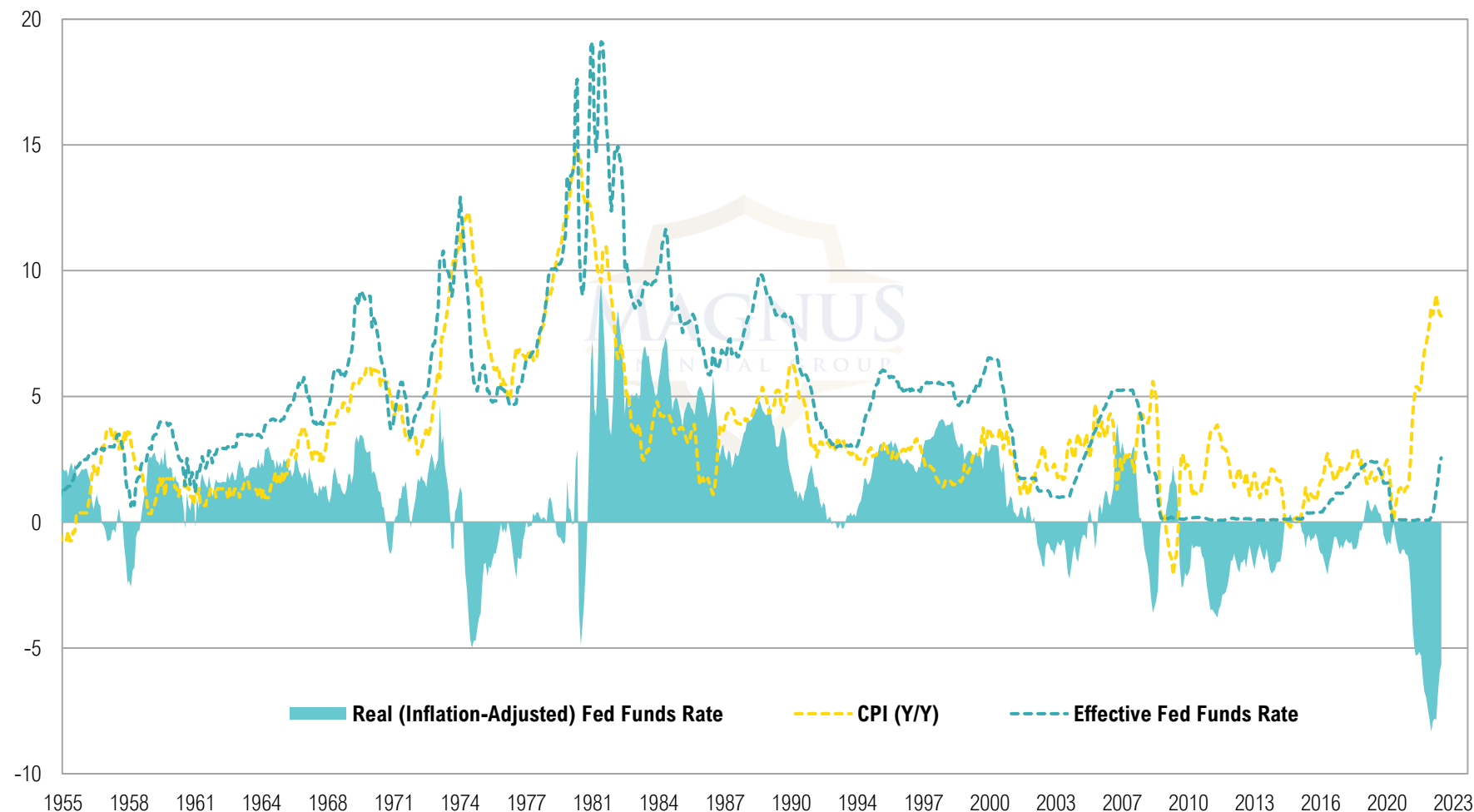


Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

Context for current monetary policy disaster: the Fed fell so far behind the curve that unless inflation rolled over by itself, they forced themselves to have to hike into an economic slowdown/recession

CPI & EFFECTIVE FUNDS RATE, %

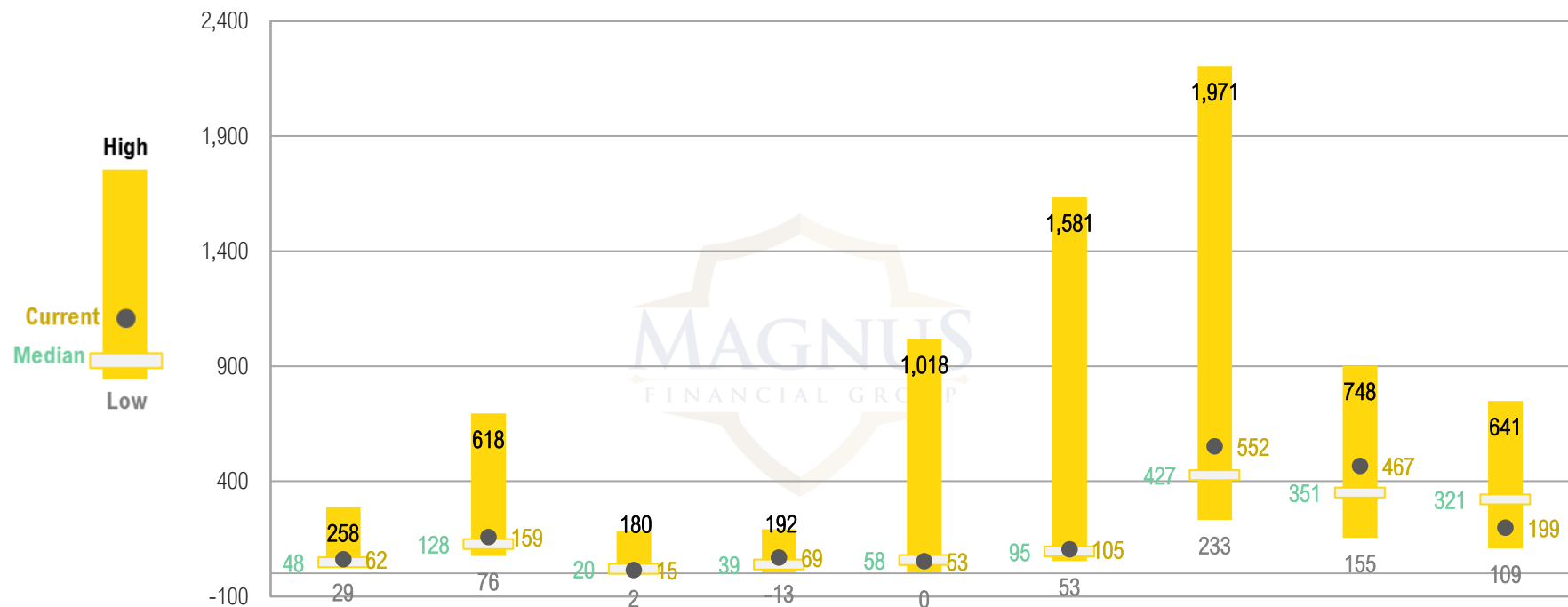


Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

Credit spreads at or modestly above average across most sectors; starting to shift up modestly as recession fears start to become more entrenched

CURRENT CREDIT SPREAD VS. LONG-TERM HIGH/LOW RANGE

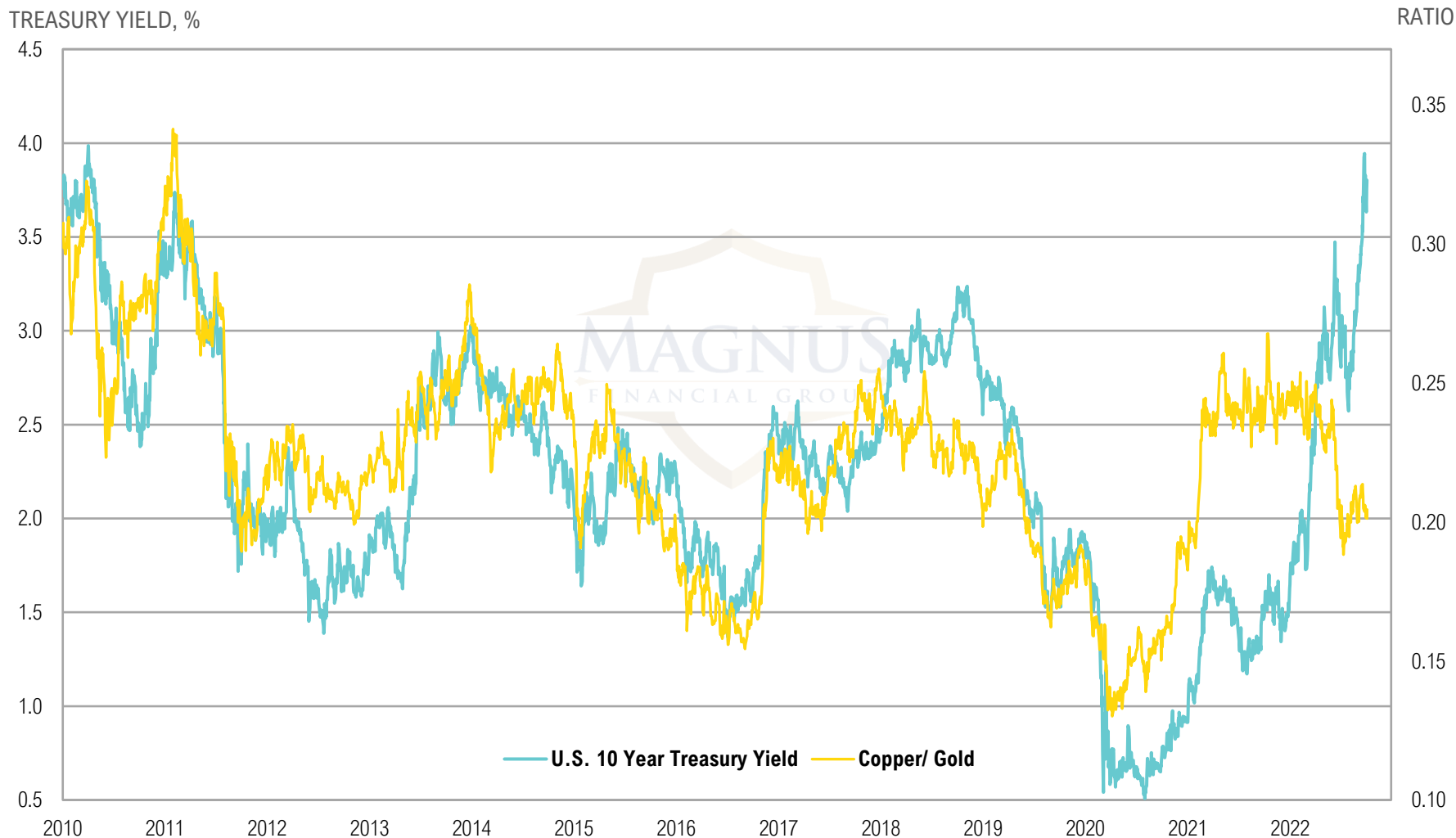


	Aggregate	Corporate	Agency	MBS	ABS	CMBS	High Yield	Emerging Markets	High Yield Muni Spread*
Max Spread Date	12/3/2008	12/3/2008	11/20/2008	12/3/2008	1/6/2009	11/21/2008	12/16/2008	11/28/2008	1/12/2009
Min Spread Date	4/14/2021	3/8/2005	4/19/2021	7/27/2010	10/1/2009	12/8/2004	5/22/2007	5/31/2007	6/11/2007
Spread on 12/31/21	36	92	8	31	38	68	283	330	200
Spread on 12/31/20	42	96	10	39	33	81	360	323	275
Spread on 12/31/19	39	93	10	39	44	72	336	277	223
Spread on 12/31/18	36	93	14	25	36	62	343	311	278

Source: Bloomberg. High Yield Muni Spread data is relative to Bloomberg Municipal Bond Index. Yield spread data is from 2004 – current.
As of 9/30/2022

© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Collapse in copper/gold ratio—a proxy for the real economy vis-à-vis financial assets—suggests Treasury yields may head lower



Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

The U.S. bond market remains relatively higher yield, which could help keep U.S. rates somewhat contained

CENTRAL BANK POLICY RATE & GOVERNMENT BOND YIELDS

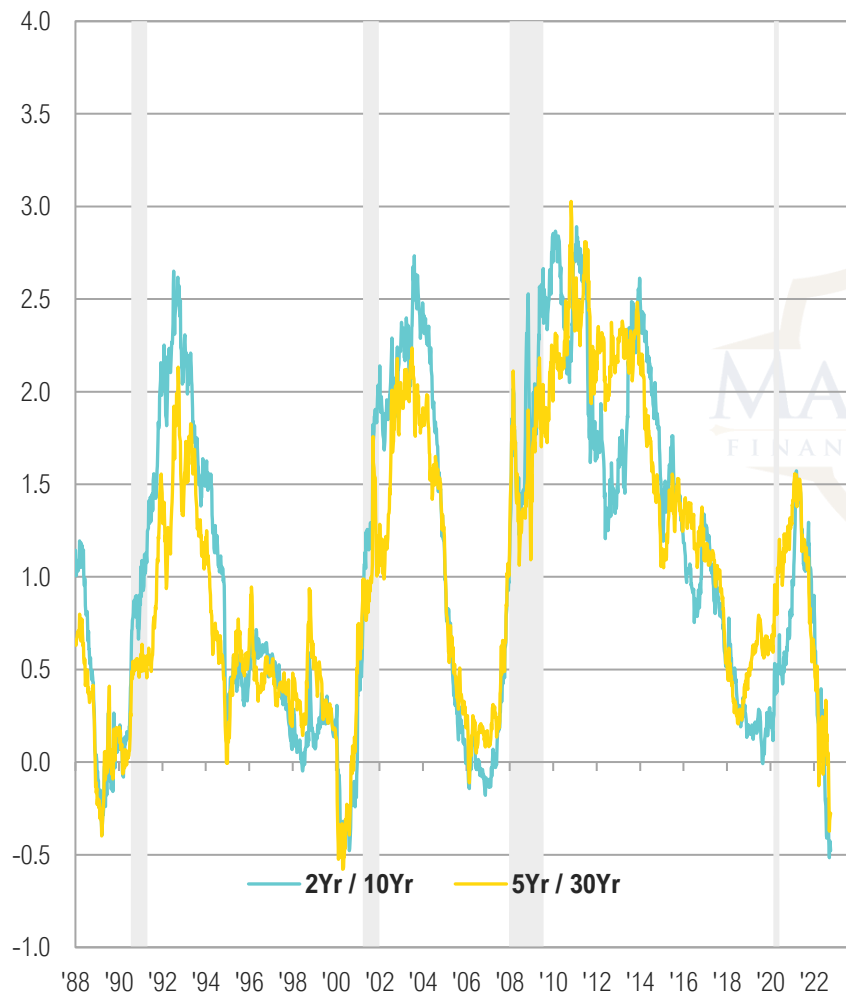
	Central Bank Rate (%)	3 Month (%)	1 Year (%)	2 Year (%)	3 Year (%)	4 Year (%)	5 Year (%)	6 Year (%)	7 Year (%)	10 Year (%)	20 Year (%)	30 Year (%)
Czech Republic	7.00	-	6.83	5.89	5.58	5.44	5.40	5.30	5.29	5.22	5.11	-
Singapore	3.89	3.42	3.29	3.32	-	-	3.51	-	-	3.43	3.25	3.14
Hong Kong	3.50	2.87	3.85	4.03	4.01	-	3.81	-	3.71	3.65	-	-
New Zealand	3.50	3.92	-	4.21	-	-	4.24	-	4.23	4.30	4.75	-
Canada	3.25	3.68	4.17	4.08	4.02	3.94	3.57	-	3.47	3.40	3.44	3.27
United States	3.25	3.38	4.18	4.31	4.33	-	4.13	-	4.02	3.88	4.13	3.82
Israel	2.75	1.63	2.96	3.02	3.15	-	3.24	-	-	3.28	-	3.83
Australia	2.60	-	3.12	3.33	3.47	3.55	3.62	3.70	3.78	3.90	4.20	4.14
South Korea	2.50	-	3.40	4.18	4.28	4.31	4.22	-	-	4.22	4.06	3.95
United Kingdom	2.25	2.87	3.78	4.13	4.31	4.44	4.42	4.37	4.41	4.25	4.55	4.38
Italy	1.25	0.92	2.33	2.99	3.41	3.64	3.79	4.00	4.15	4.63	4.62	4.36
Spain	1.25	0.57	2.17	2.15	2.31	2.47	2.70	2.81	2.97	3.36	3.54	3.75
Portugal	1.25	0.33	1.96	2.02	2.19	2.34	2.59	2.71	2.78	3.25	3.54	3.67
France	1.25	0.77	1.83	1.82	2.06	2.14	2.27	2.39	2.49	2.77	3.08	2.99
Belgium	1.25	0.88	1.87	1.88	1.97	2.12	2.29	2.40	2.49	2.83	3.20	-
Germany	1.25	0.75	1.68	1.85	1.80	1.86	2.04	2.00	2.04	2.18	2.23	2.12
Austria	1.25	-	1.64	1.91	2.08	2.30	2.37	2.62	2.58	2.84	2.99	2.86
Netherlands	1.25	0.62	-	1.83	1.94	2.05	2.17	2.24	2.30	2.50	2.57	2.37
Ireland	1.25	0.70	1.26	-	1.91	2.03	2.23	2.36	2.40	2.72	3.03	3.00
Thailand	1.00	-	1.61	1.82	-	-	2.62	-	2.87	2.95	3.83	-
Switzerland	0.50	0.40	1.10	0.57	0.74	0.84	1.00	1.12	1.15	1.28	1.19	1.17
Japan	(0.10)	(0.27)	(0.12)	(0.07)	(0.05)	0.01	0.05	0.12	0.19	0.24	0.97	1.36

Source: Bloomberg

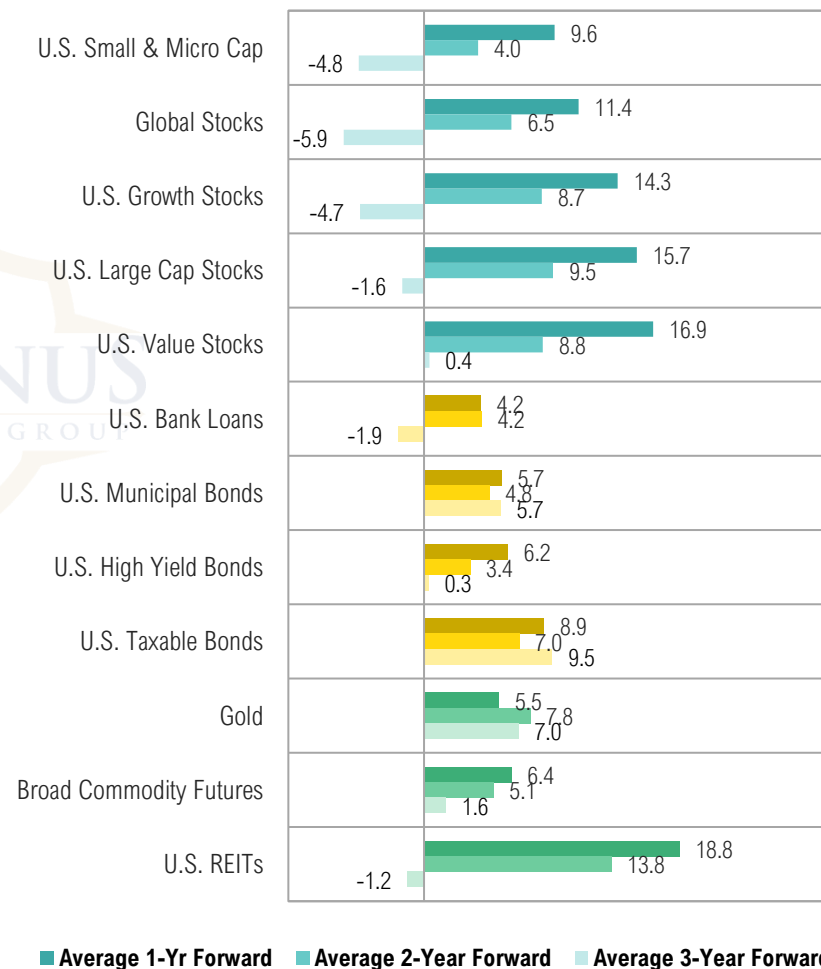
© 2022 Magnus Financial Group LLC. All Rights Reserved

Yield curve inversion signaling slowing growth; risky assets can generate strong short-term returns post inversion, but we don't like "pennies in front of steam roller trades"

U.S. TREASURY SPREADS



AVERAGE FORWARD RETURN POST INVERSION SINCE 1988, %



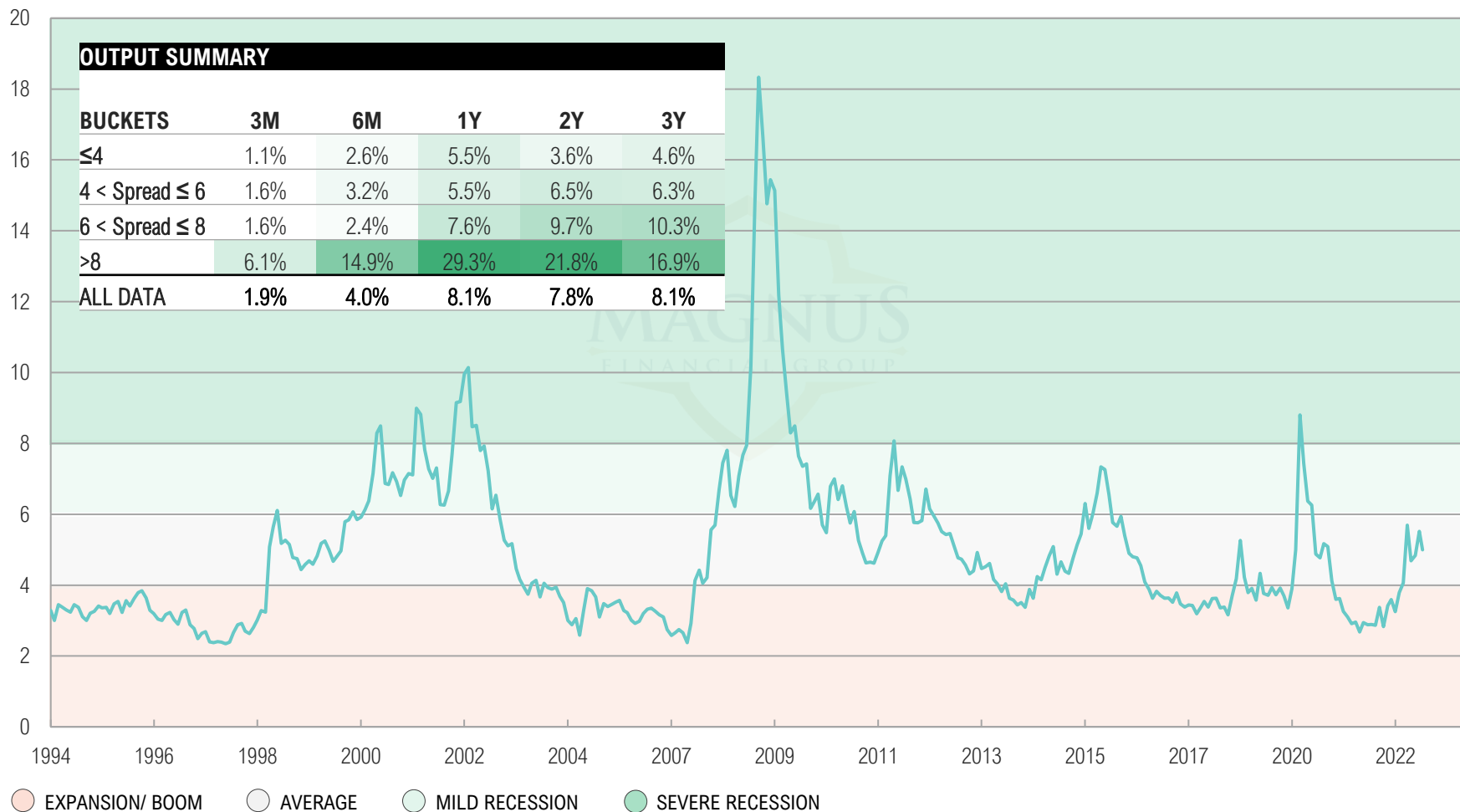
Source: Bloomberg

Average forward returns exclude 1988 for US Municipal Bonds, US Bank Loans, US REITS and Broad Commodity Futures due data availability

© 2022 Magnus Financial Group LLC. All Rights Reserved

Historically, high yield spreads above 6% have resulted in above average forward returns; high yield spread currently trading at 5.0%

BLOOMBERG U.S. CORPORATE HIGH YIELD OPTION-ADJUSTED SPREAD (%)

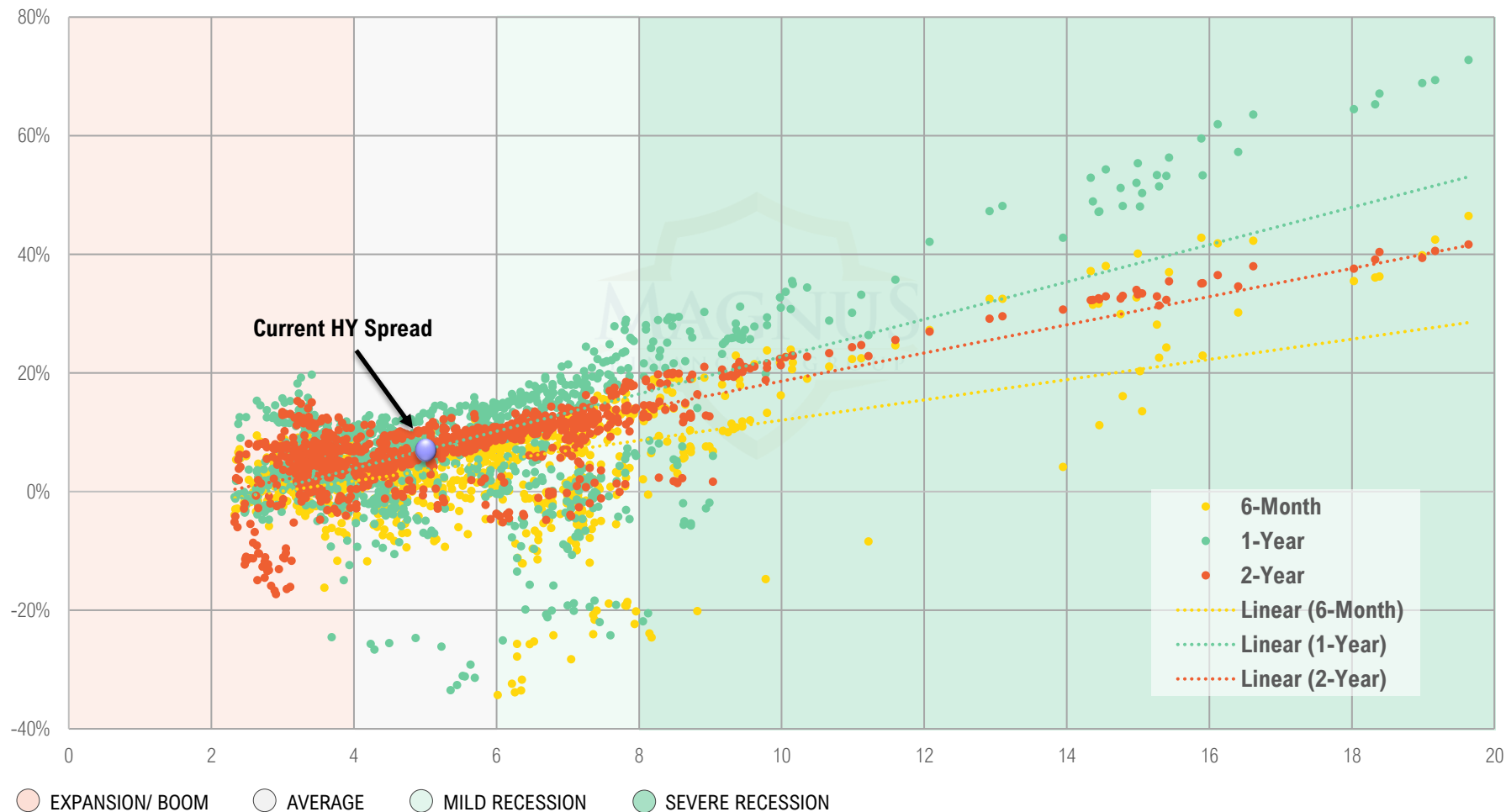


Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

Historically, high yield spreads above 6% have resulted in above average forward returns; high yield spread currently trading at 5.0%

FORWARD TOTAL RETURN

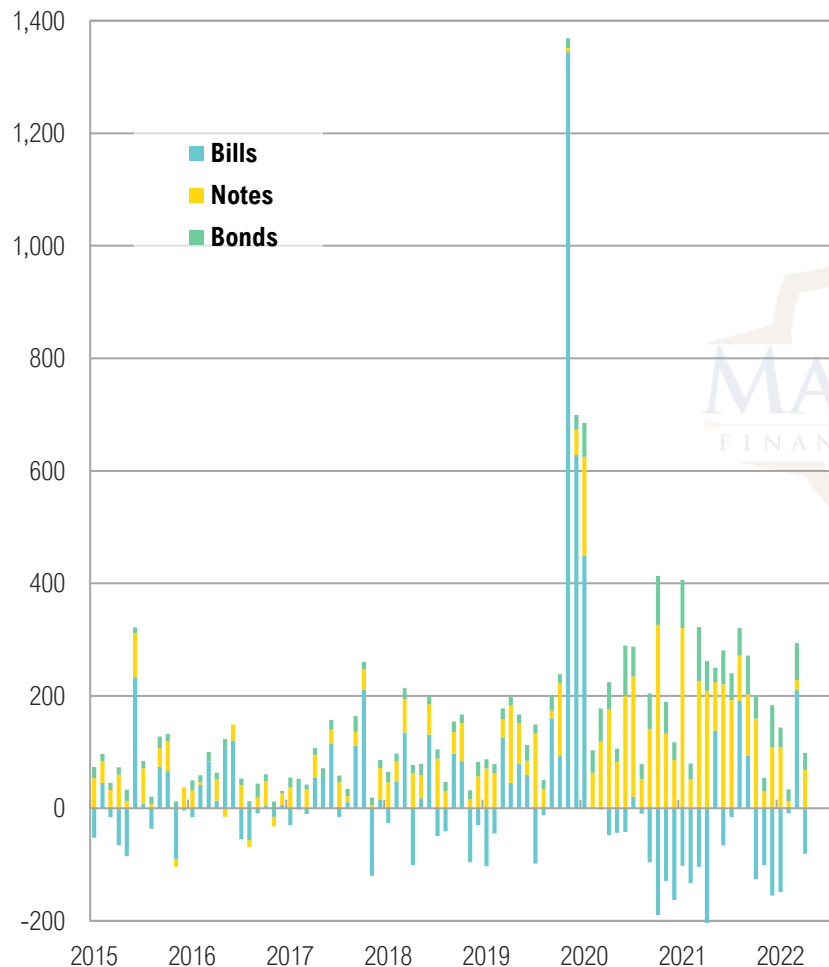


Source: Bloomberg, SpringTide

© 2022 Magnus Financial Group LLC. All Rights Reserved

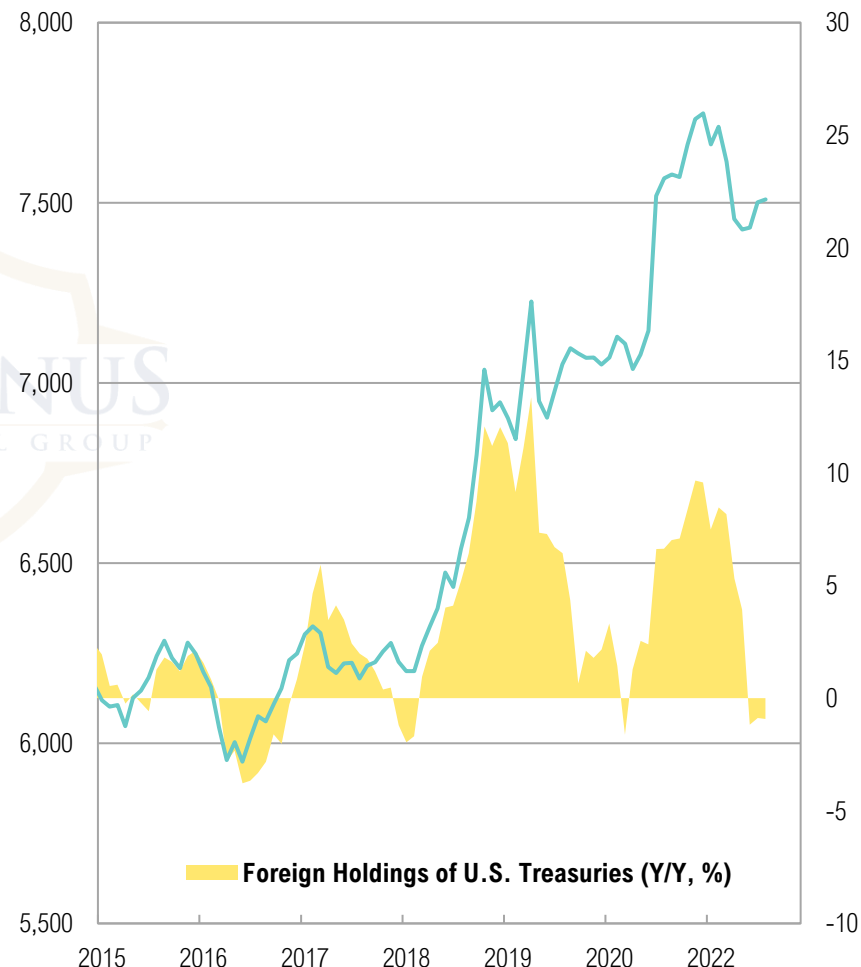
➤ Q4 net issuance expected to be \$400Bn

MONTHLY U.S. TREASURY ISSUANCE BY SECURITY, \$BN



TOTAL FOREIGN HOLDINGS

Y/Y % CHANGE IN HOLDINGS



Source: Bloomberg. Foreign holdings as of 8/31/2022.

© 2022 Magnus Financial Group LLC. All Rights Reserved



The supply chain is slowly improving, but it's still far from prepandemic levels. We still see significant lead times for electrical equipment, heavy industrial items and refined petroleum products. Labor shortages will continue to drive up wages as competition for skilled workers continues to increase. There simply are not enough skilled workers for the positions available.

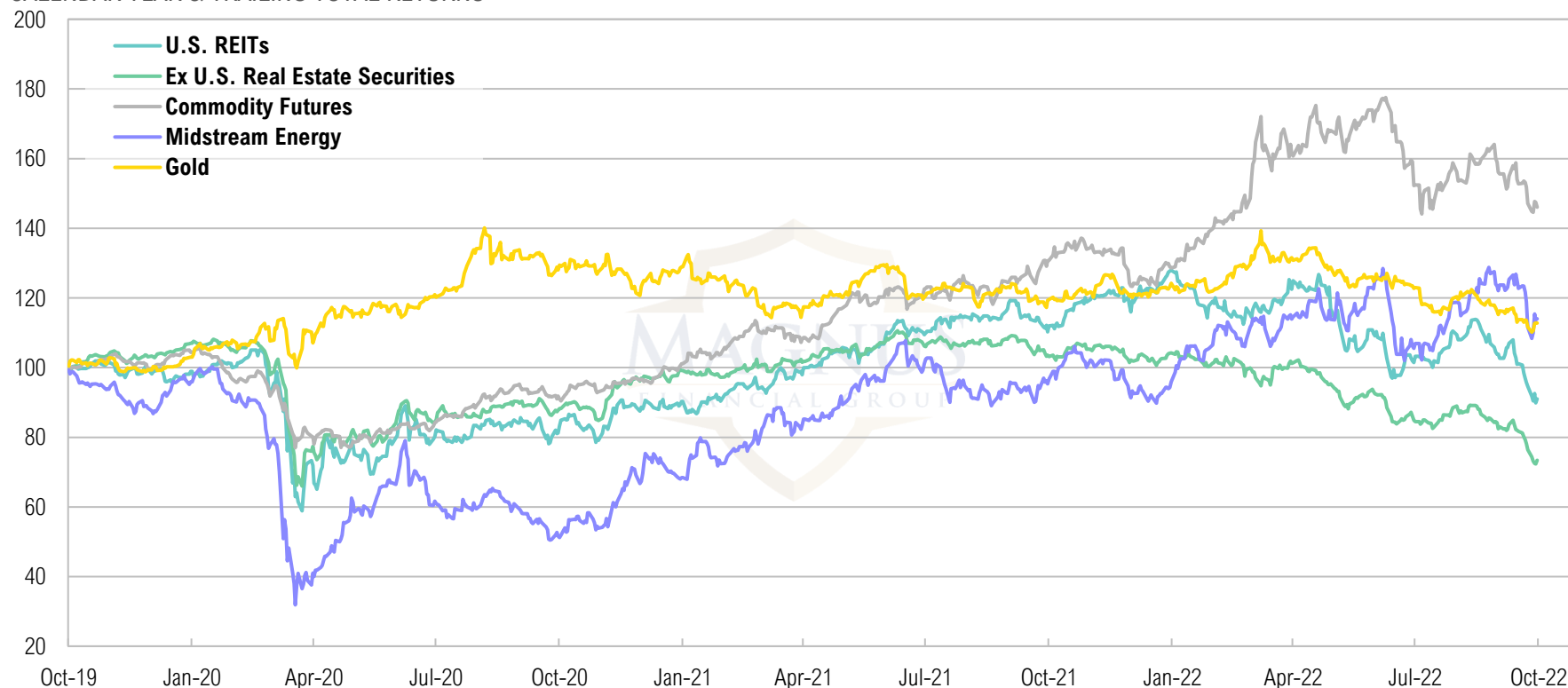
– Dallas Fed Oil & Gas Survey, *September 2022*

Source: Dallas Fed: <https://www.dallasfed.org/research/surveys/des/2022/2203.aspx#tab-comments>

© 2022 Magnus Financial Group LLC. All Rights Reserved

While energy gave back returns in September, it was the only area of the real assets and infrastructure category to be up in Q3; REITs continue to struggle in the rising rate environment

CALENDAR YEAR & TRAILING TOTAL RETURNS



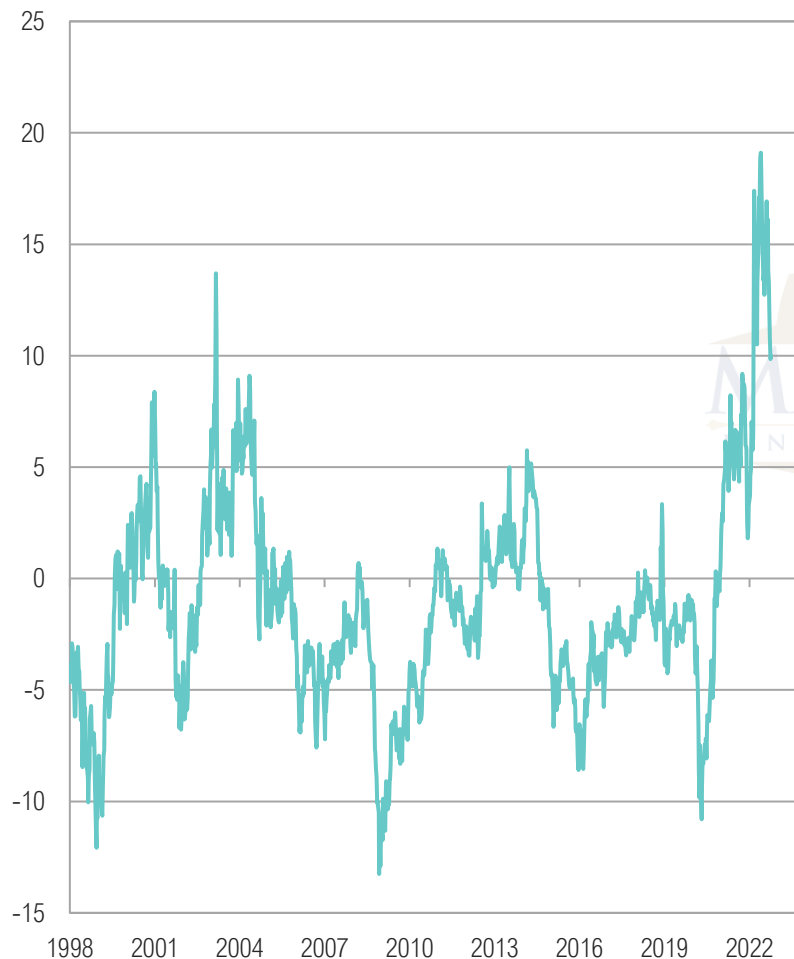
Asset Class	Benchmark	MTD	QTD	YTD	1-Yr	3-Yr	5-Yr	10-Yr	2021	2020	2019	2018	2017
U.S. REITs	MSCI US REIT NR	-12.3	-10.3	-28.9	-17.5	-3.1	1.7	4.9	41.7	-8.7	24.3	-5.8	3.7
Ex U.S. Real Estate Securities	S&P Global Ex US REIT TR	-13.6	-13.0	-30.1	-26.7	-9.0	-2.2	2.0	13.5	-9.3	24.7	-6.5	16.7
Broad Commodity Futures	Bloomberg Commodity TR	-8.1	-4.1	13.6	11.8	13.5	7.0	-2.1	27.1	-3.1	7.7	-11.2	1.7
Energy Partnerships	Alerian MLP TR	-7.6	8.1	18.9	19.6	4.5	1.9	0.7	40.2	-28.7	6.6	-12.4	-6.5
Gold	LBMA Gold Price AM	-2.3	-7.8	-8.1	-3.4	4.0	5.4	-0.6	-3.8	24.2	18.8	-1.1	11.9

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

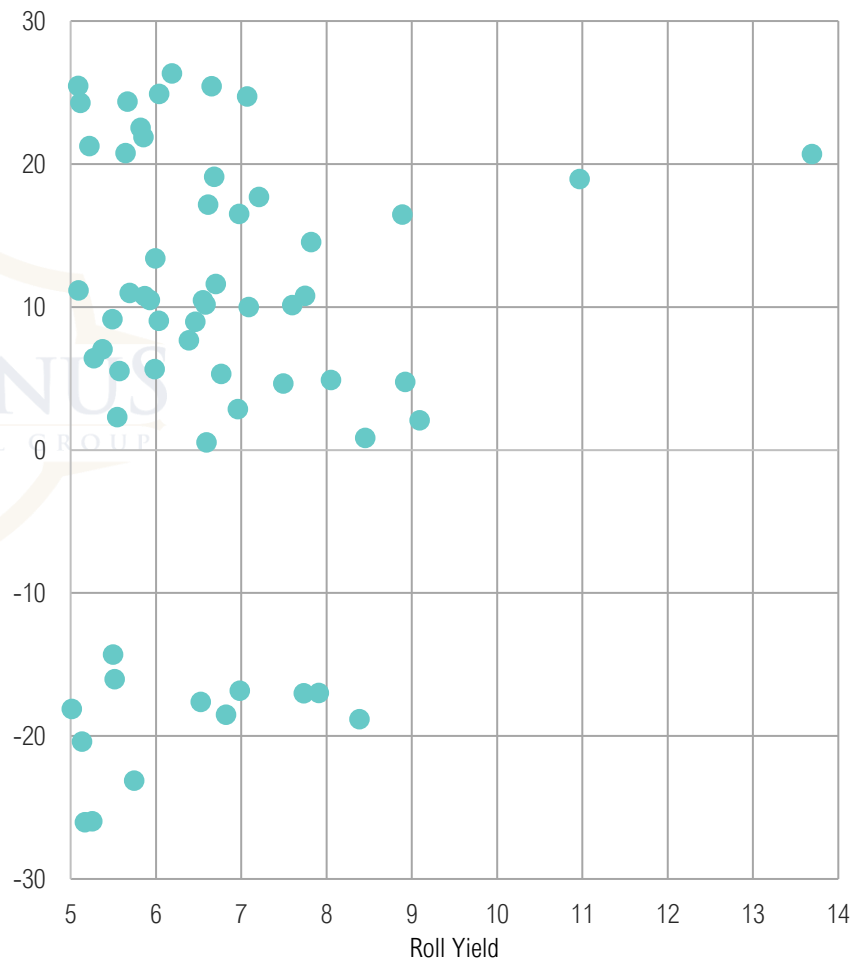
© 2022 Magnus Financial Group LLC. All Rights Reserved

Commodity roll yield suggests very tight global commodity markets, potential for strong forward returns (but obviously with risks)

BLOOMBERG COMMODITY INDEX ROLL YIELD (%)



1-YEAR FORWARD RETURN (ANNUALIZED)



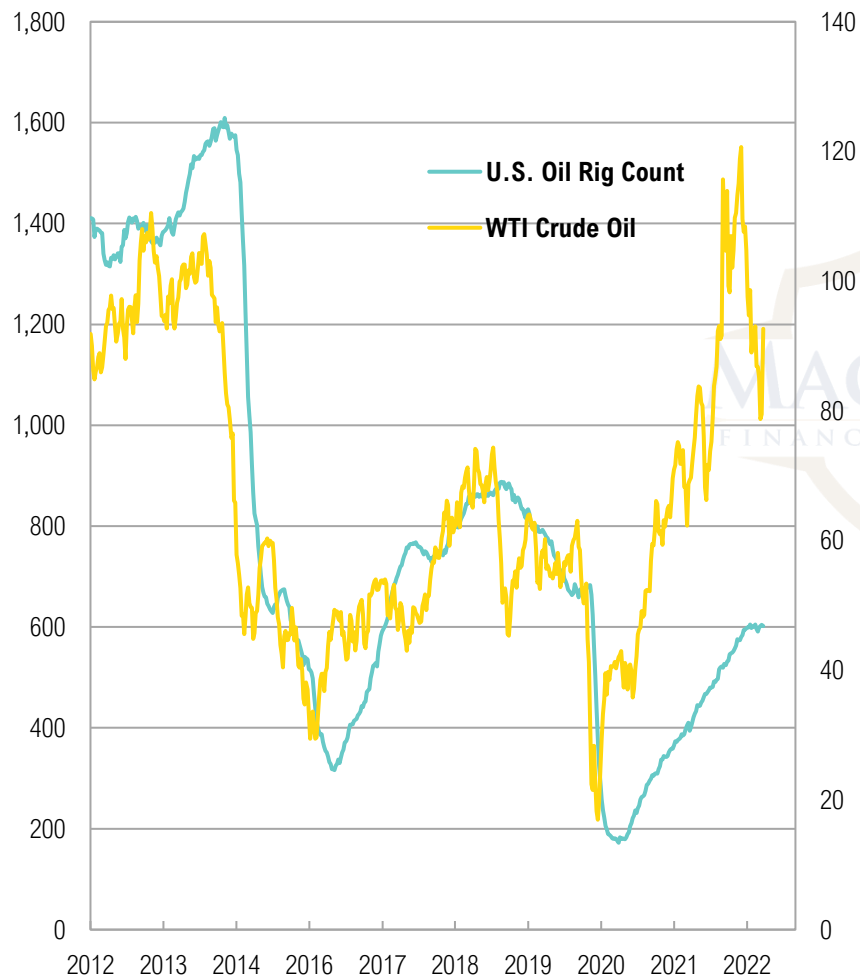
Source: Bloomberg. As of 10/7/2022

© 2022 Magnus Financial Group LLC. All Rights Reserved

Oil and natural gas producers have been cautious to bring rigs back online despite rising prices

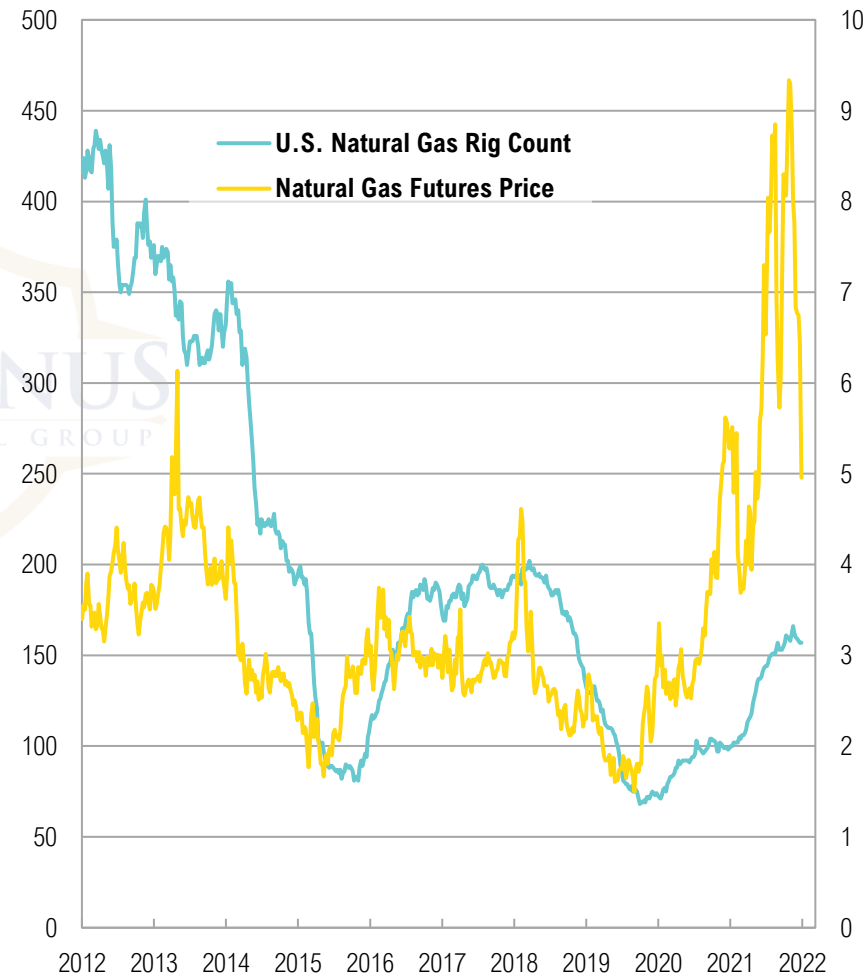
BAKER HUGHES U.S. OIL RIG COUNT

WTI CRUDE OIL, \$/BBL



BAKER HUGHES U.S. NAT GAS RIG COUNT

NAT GAS, \$/MM BTU

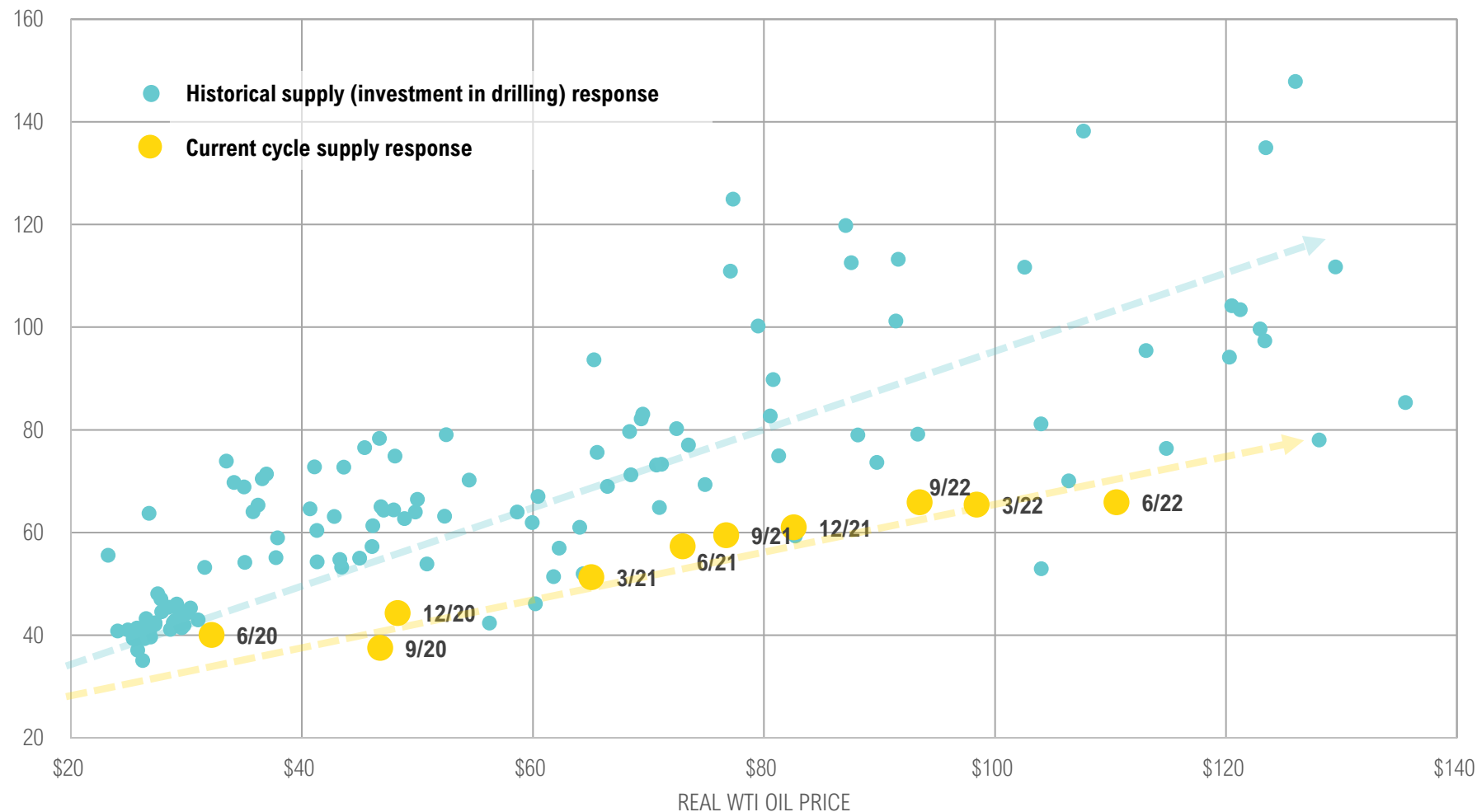


Source: Bloomberg. Returns for periods greater than one year are annualized.

© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Since COVID, drilling capex levels have been near the bottom of a 65-year range

INVESTMENT IN DRILLING, REAL \$BN/QTR, 1958-PRESENT

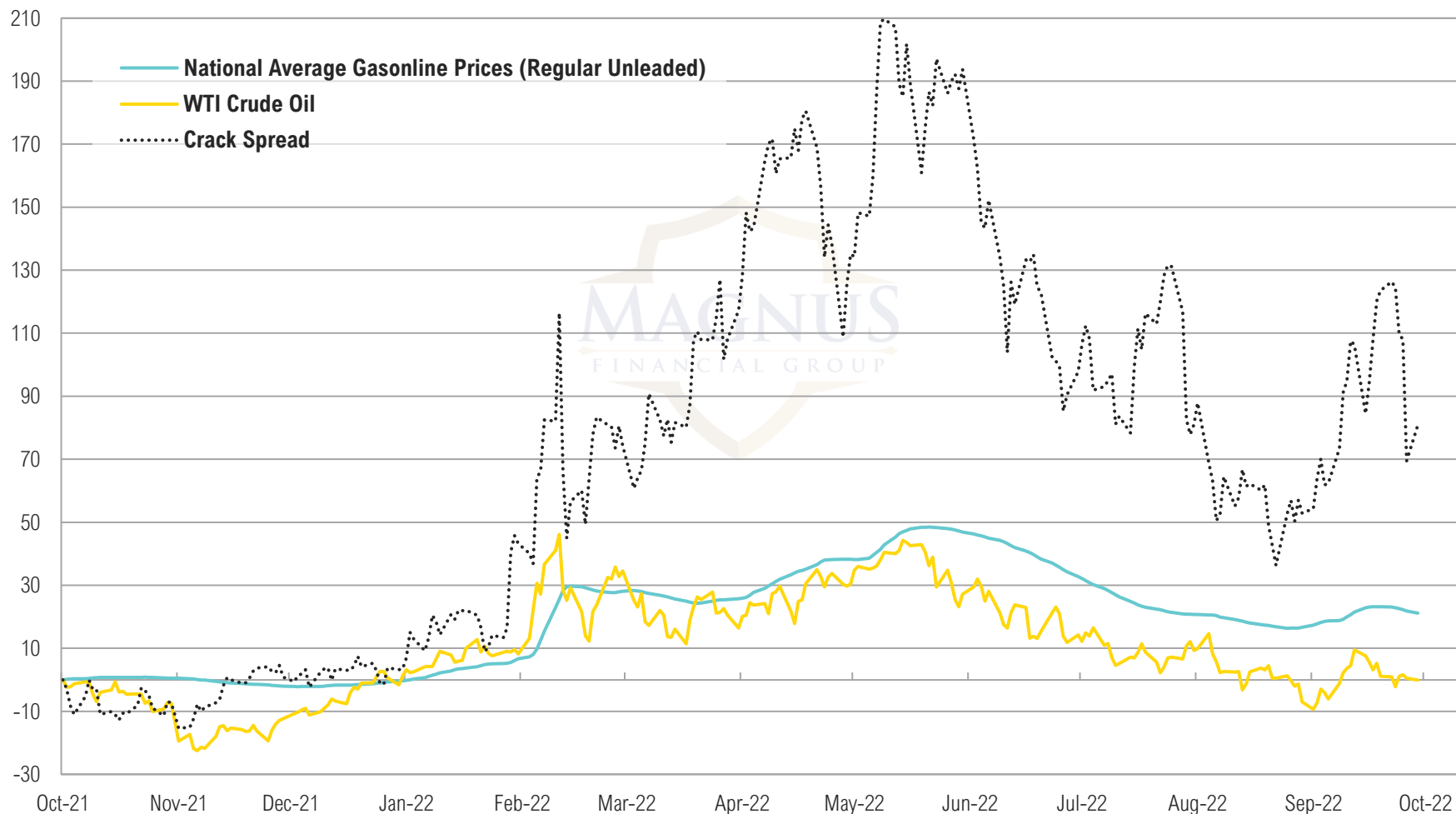


Source: St. Louis Fed, Recurrent Investment Advisors

© 2022 Magnus Financial Group LLC. All Rights Reserved

Gasoline prices are down ~25% since peaking at over \$5/gal in June, but with gasoline futures up 25% since September low, >15% in October, and end of SPR dump looming, prices will likely increase from here

PRICE % CHANGE, 10/26/21 – 10/24/22

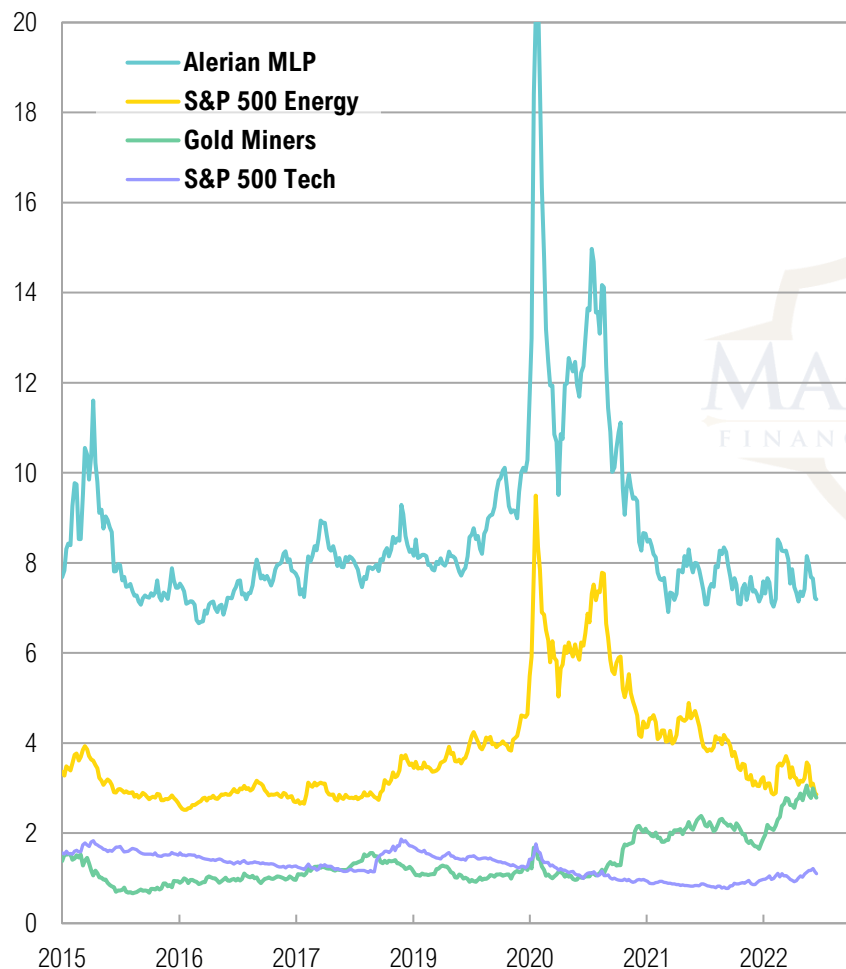


Source: Bloomberg

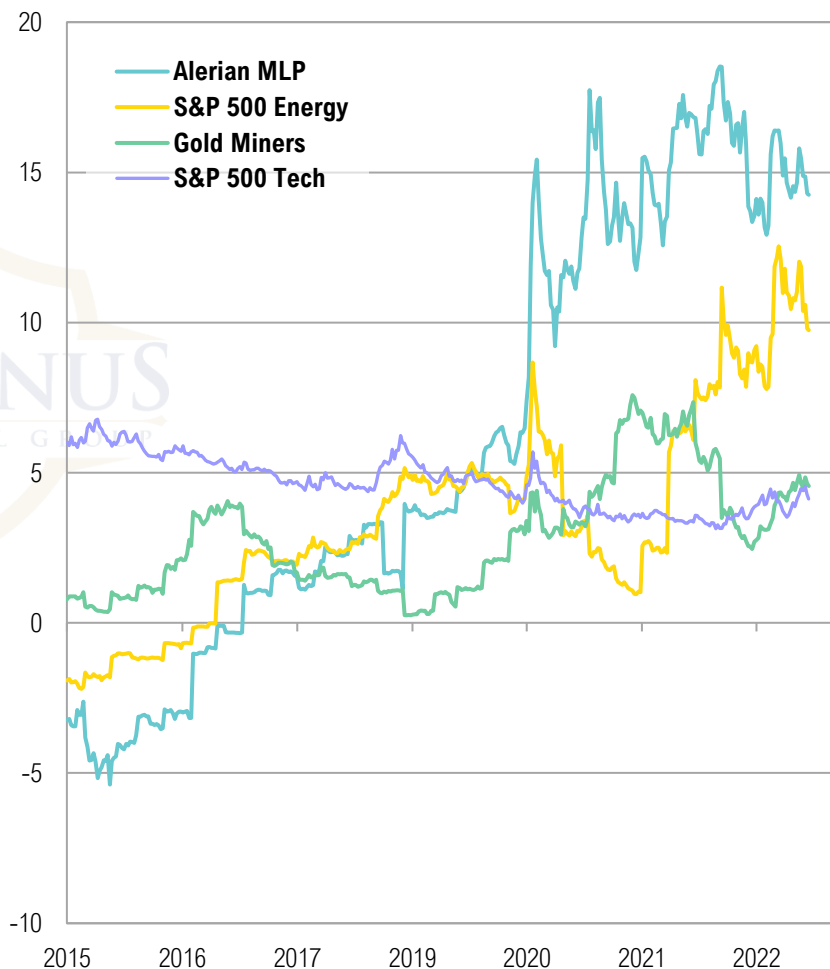
© 2022 Magnus Financial Group LLC. All Rights Reserved

Midstream distribution yields trending lower as sector breaks out to upside but remain relatively attractive, free cash flow yields of energy sector remain attractive

DIVIDEND YIELD, %



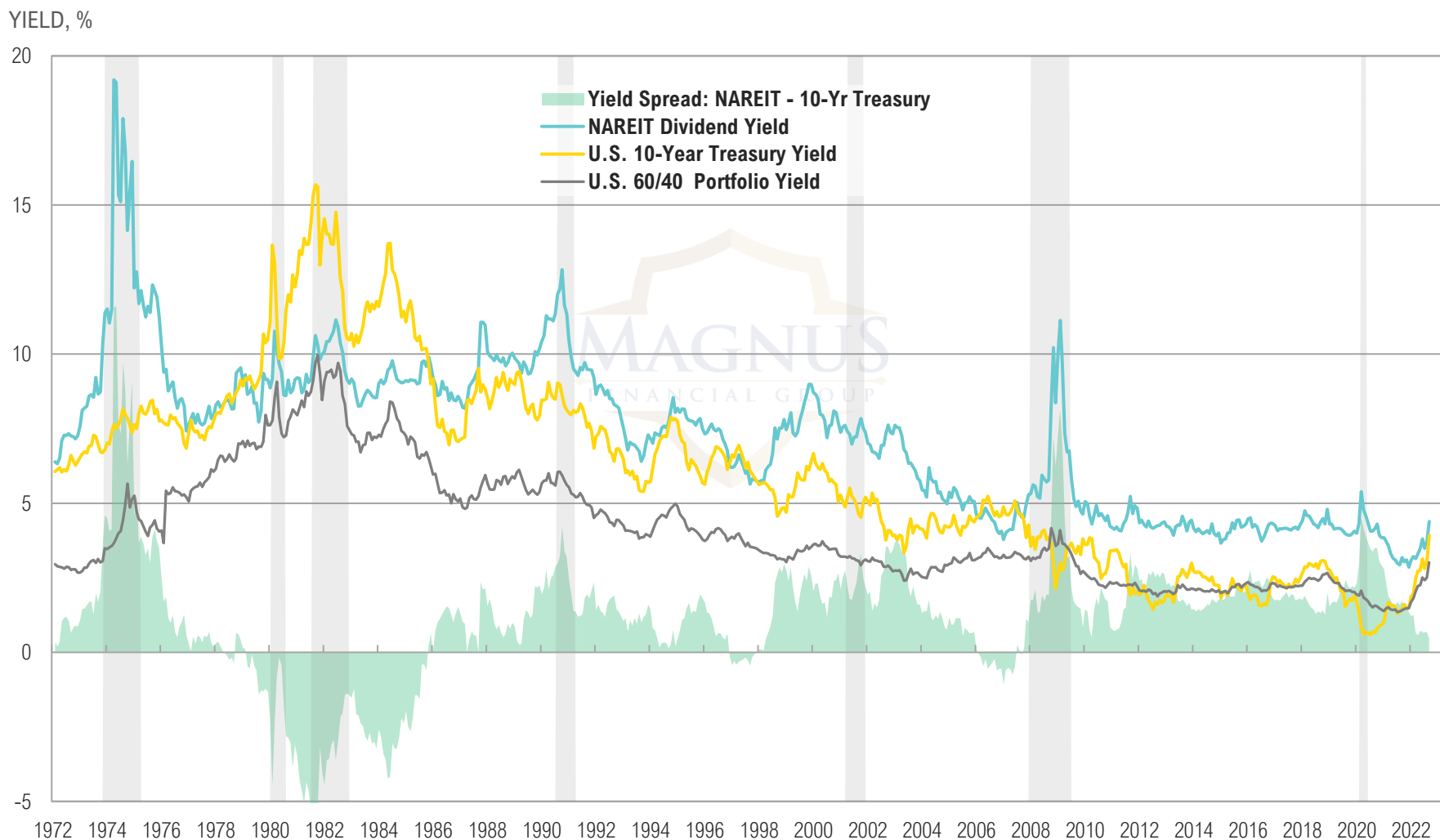
FCF YIELD, %



Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

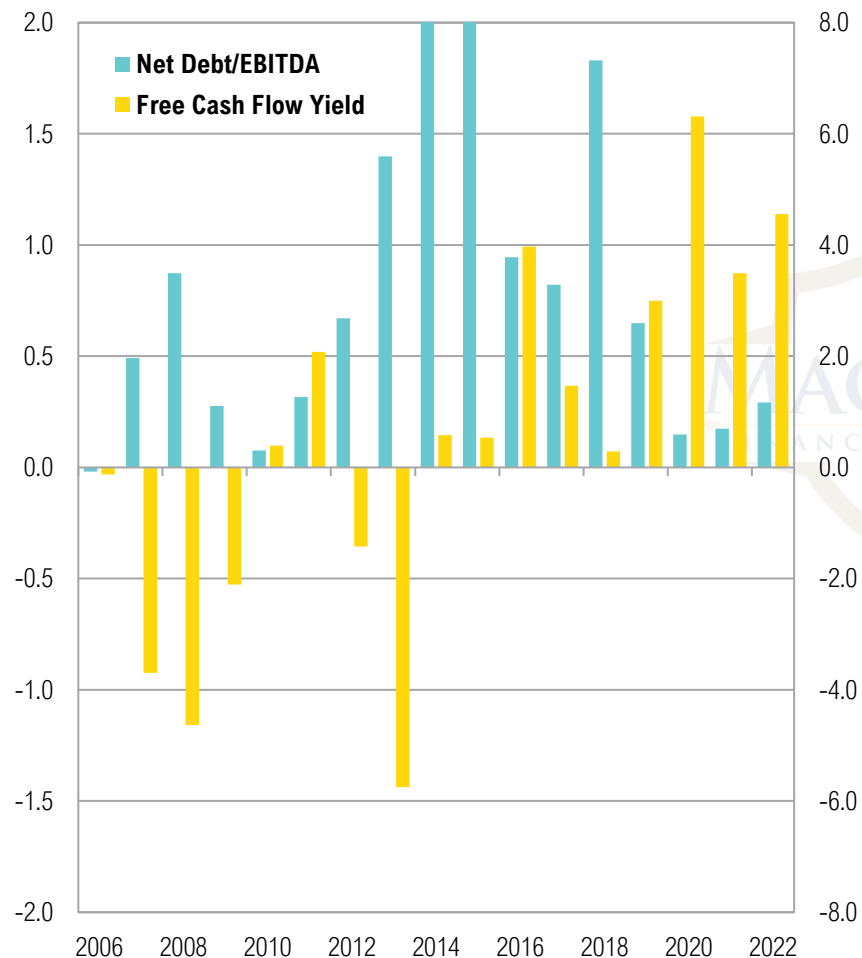
➤ Even after -30% year-to-date returns, REIT yields are wholly unattractive on a relative basis and near lowest levels in history on an absolute basis



© 2022 Magnus Financial Group LLC. All Rights Reserved

Gold miners have been trying to catch up to improved cash flows, but risk remains that further gold price declines hurt future free cash flow yields

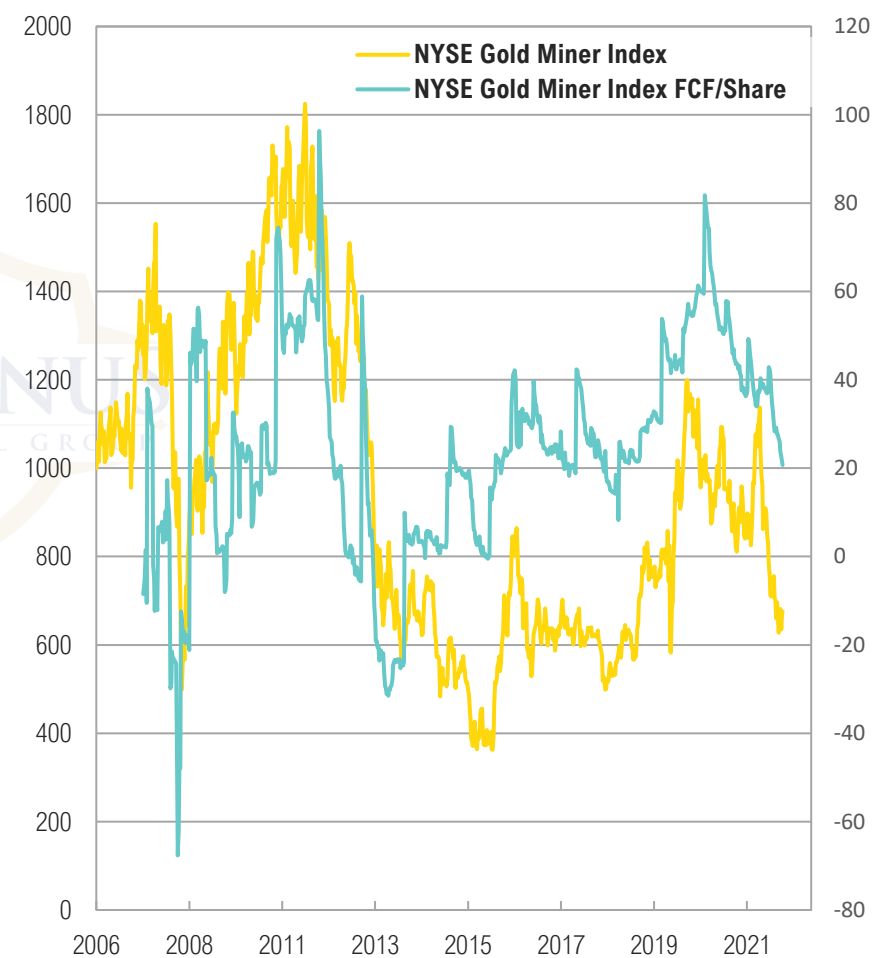
GOLD MINERS: NET DEBT/ EBITDA



GOLD MINERS: FCF YIELD

NYSE GOLD MINER INDEX

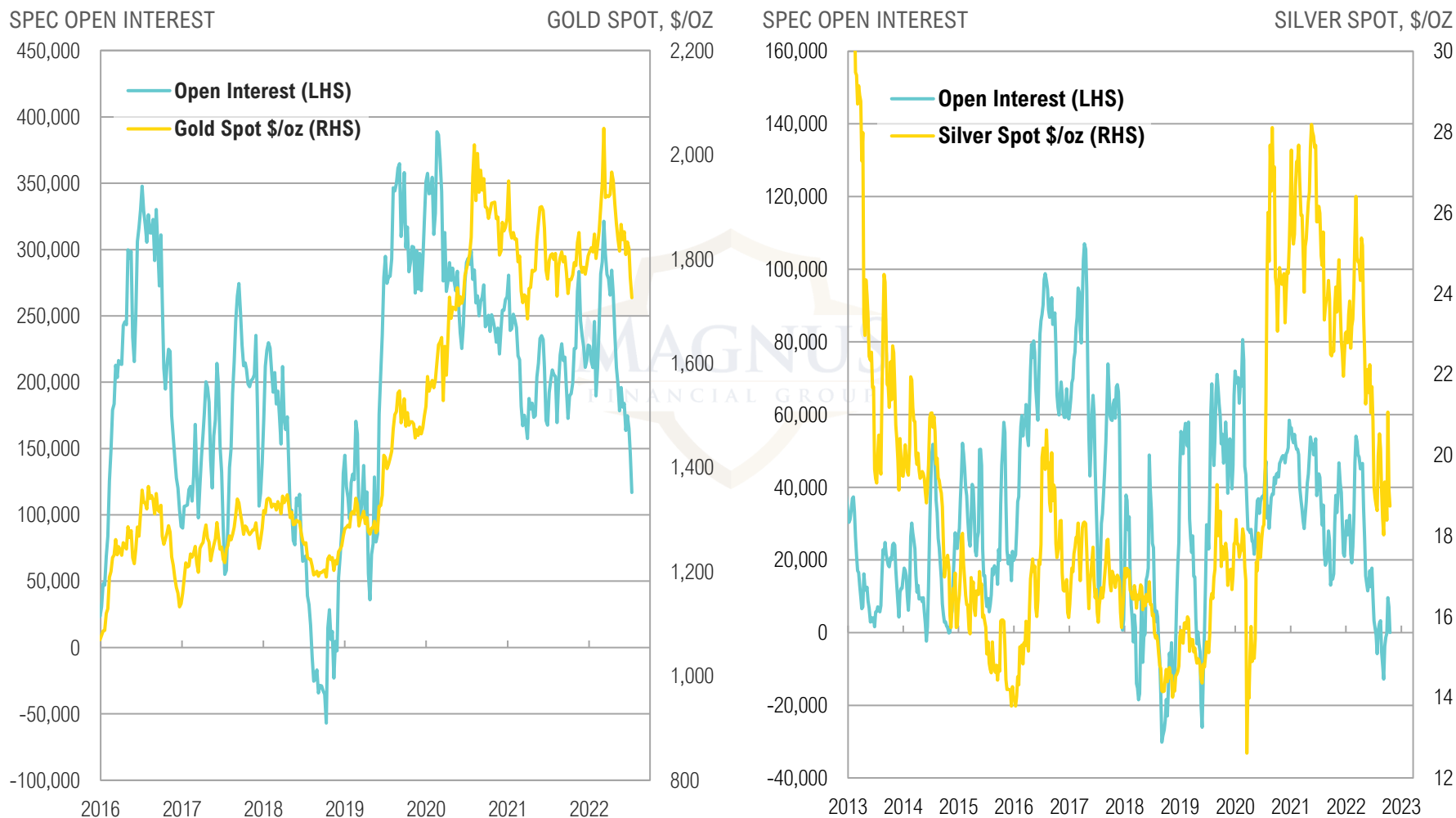
FCF/SHARE, EST.



Source: Bloomberg, VanEck, SpringTide estimates.
 Gold miner net debt/EBITDA as of 10/26/2022. FCF/Share data are Bloomberg best calculated.

© 2022 Magnus Financial Group LLC. All Rights Reserved

➤ Spec positioning in gold futures suggests markets are nearing capitulation, which has generally resulted in above-average forward returns



Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

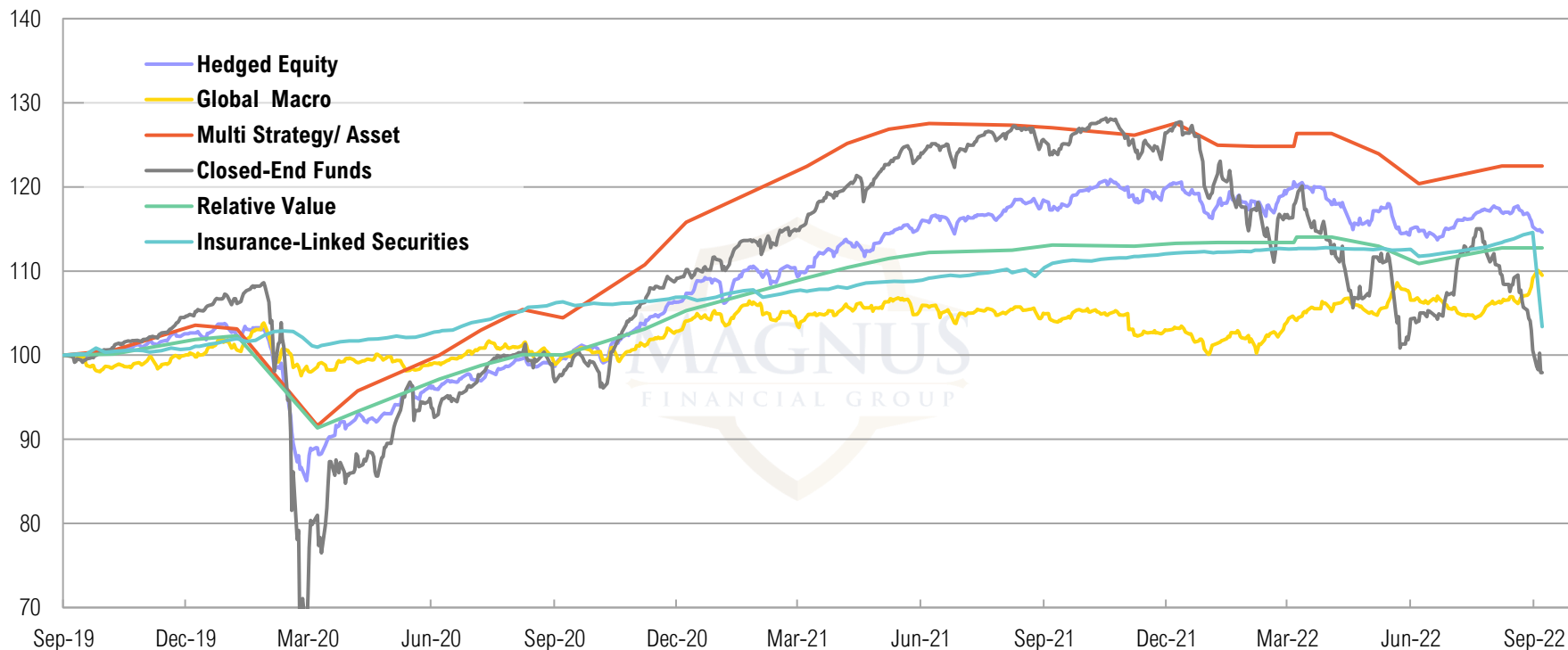


I was born for a storm, and a calm does not suit me.

– Andrew Jackson, *American lawyer, Planter, General, and Seventh president of the United States from 1829 to 1837*

Insurance-linked securities was the worst performing opportunistic asset class in Q3 as hurricane Ian threatens heavy losses; global macro is the only positive asset class YTD

CALENDAR YEAR & TRAILING TOTAL RETURNS



Asset Class	Benchmark	MTD	QTD	YTD	1-Yr	3-Yr	5-Yr	10-Yr	2021	2020	2019	2018	2017
Hedged Equity	HFRX Equity Hedge Index	-2.0	-0.1	-4.8	-2.3	4.7	2.8	3.2	12.1	4.6	10.7	-9.4	10.0
Global Macro	HFRX Macro-CTA Index	3.0	2.7	6.1	5.2	3.1	2.7	1.1	-0.8	4.3	4.8	-3.2	2.5
Multi Strategy/ Asset	HFR1 Fund Weighted Composite Index	N/A	1.7	-4.0	-3.6	7.0	5.0	4.9	10.2	11.8	10.4	-4.7	8.6
Relative Value	HFR1 Relative Value Index	N/A	1.7	-0.5	-0.3	4.1	3.7	4.3	7.6	3.4	7.4	-0.4	5.1
Closed-End Funds	S-Network Composite Closed-End Index	-10.6	-5.9	-23.2	-20.9	-0.7	1.5	4.5	7.4	-3.7	15.1	-15.3	6.3
Insurance-Linked Securities	SwissRe Global Cat Bond Index	-8.8	-7.5	-7.8	-6.8	1.1	2.7	4.0	4.9	5.8	4.6	2.5	0.5

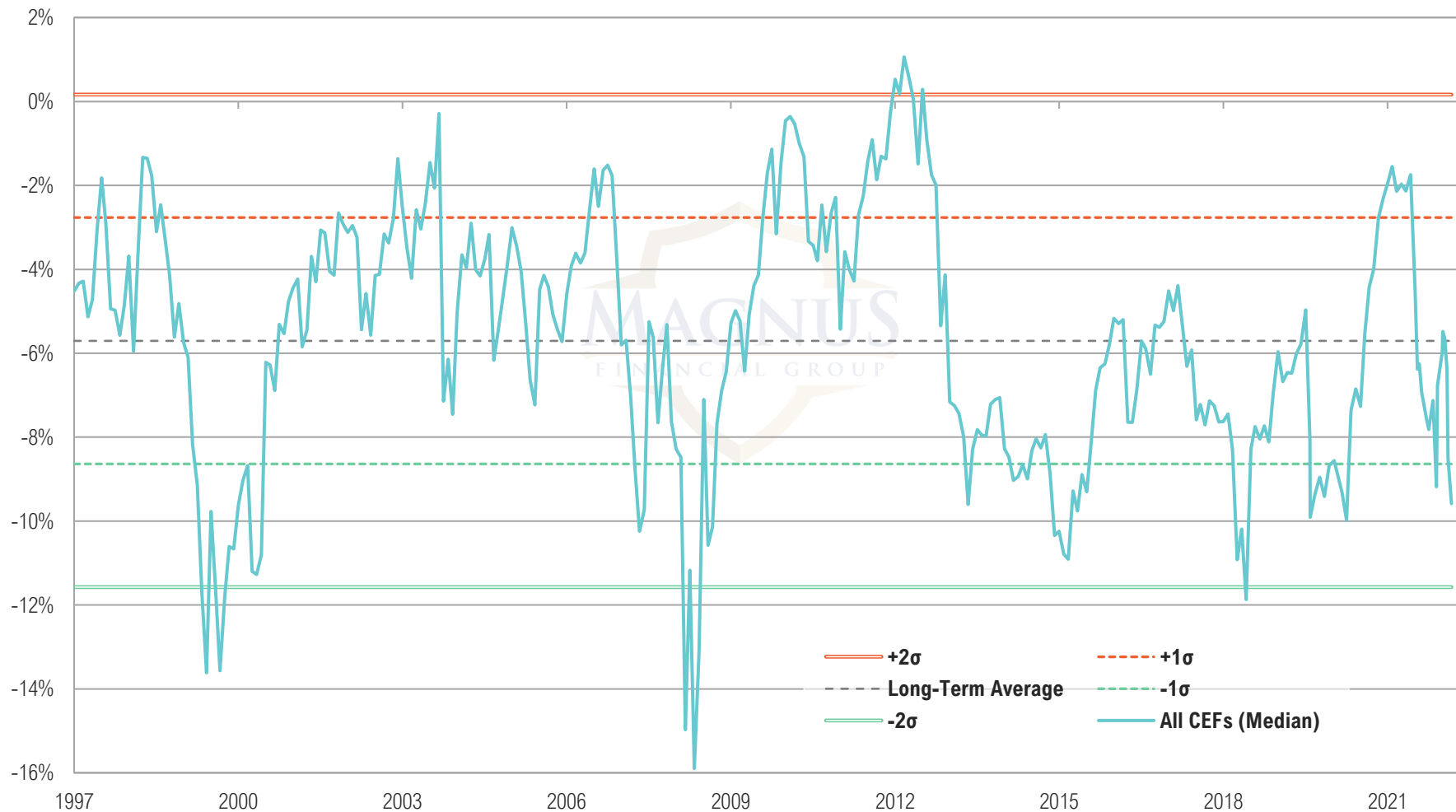
Source: Bloomberg

Due to reporting lag, Multi Strategy and Relative Value trailing return data in the table above is lagged by 1 month. Returns for periods greater than 1 year are annualized.

© 2022 Magnus Financial Group LLC. All Rights Reserved

CEF discounts have widened significantly from -6.4% in August to -9.6% in September; U.S. taxable bonds are trading at widest discount since 2018

MEDIAN PREMIUM / DISCOUNT TO NET ASSET VALUE



Source: Bloomberg

© 2022 Magnus Financial Group LLC. All Rights Reserved

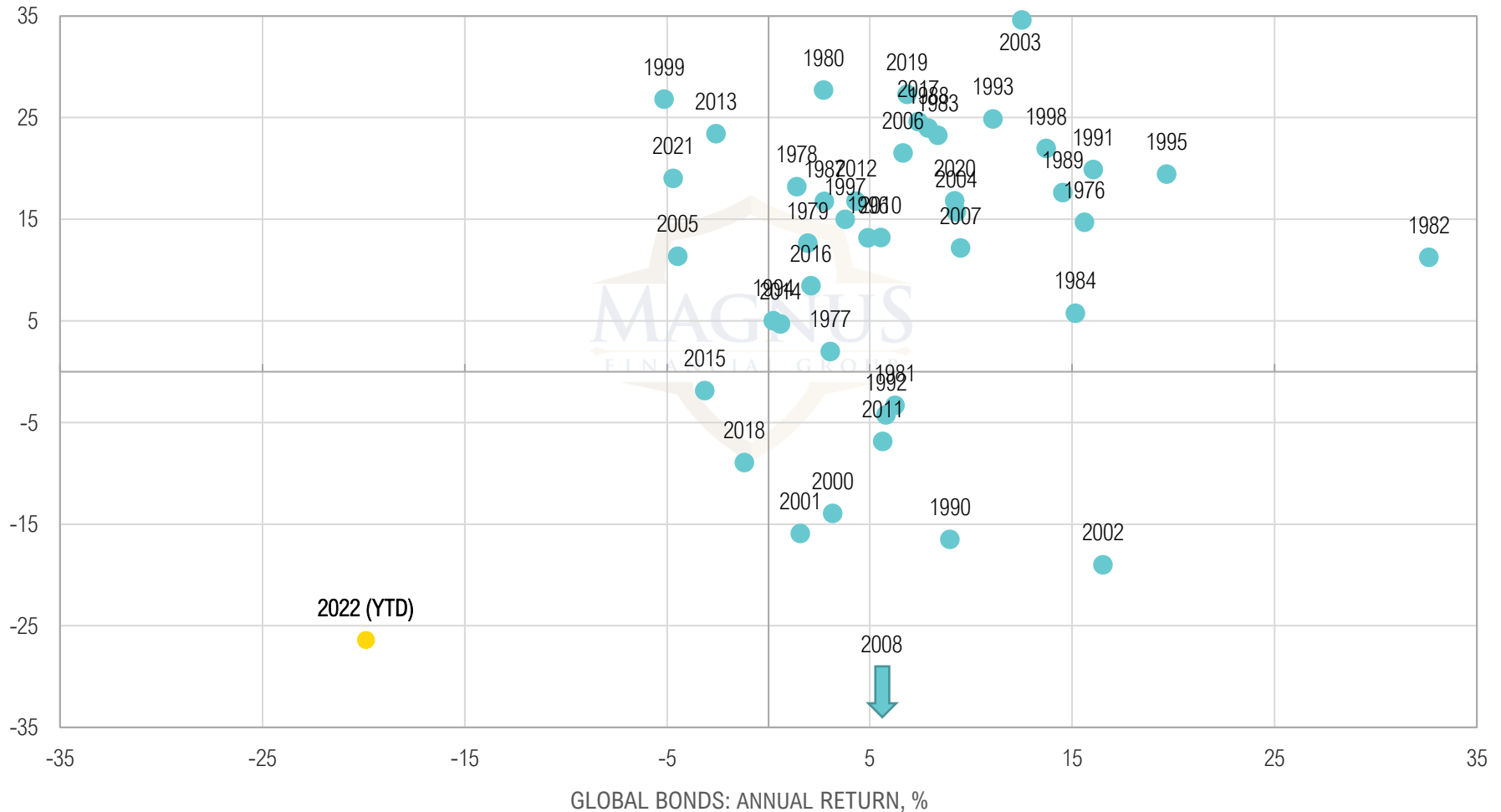


Markets tend to return to the mean over time

– **Bob Farrell**, *Merrill Lynch Strategist and Market Historian (Bob Farrell's 10 Rules)*

➤ 2021 was an unusual year for global stocks and bonds, 2022 even more so; again, highlighting the unusual predicament the Fed is in

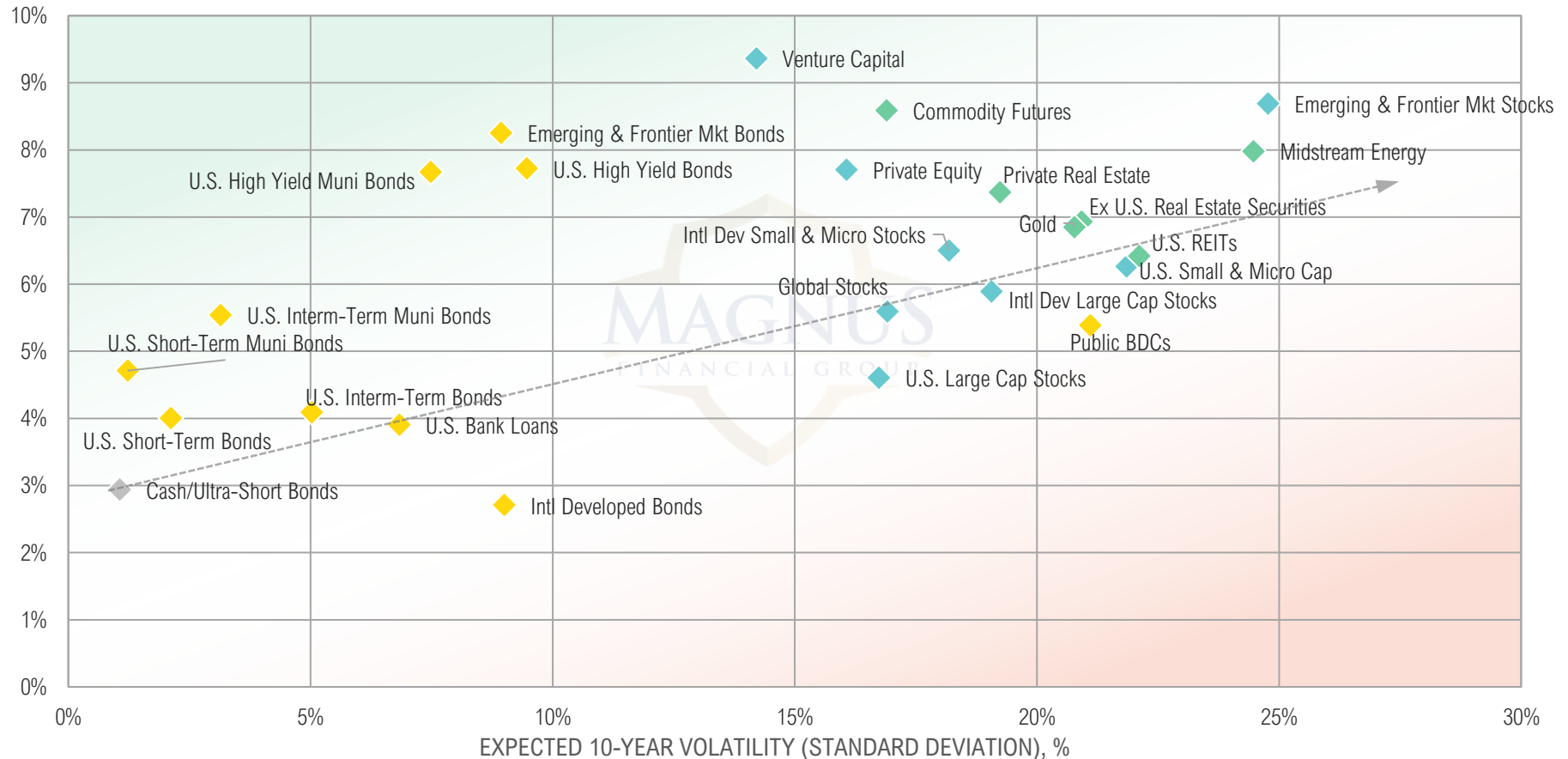
GLOBAL STOCKS: ANNUAL RETURN, %



Source: Bloomberg. Global Stocks are represented by MSCI ACWI Index (1988-2022) and the MSCI World Index (1976-1987). Global Bonds are represented by Bloomberg Global Aggregate Bond Index (1991-2022) and Bloomberg US Agg Bond Index (1976-1990). © 2022 Magnus Financial Group LLC. All Rights Reserved

Expected 10-year returns for fixed income assets rose substantially as yields continued to rise throughout the quarter

EXPECTED 10-YEAR GROSS TOTAL RETURN, %



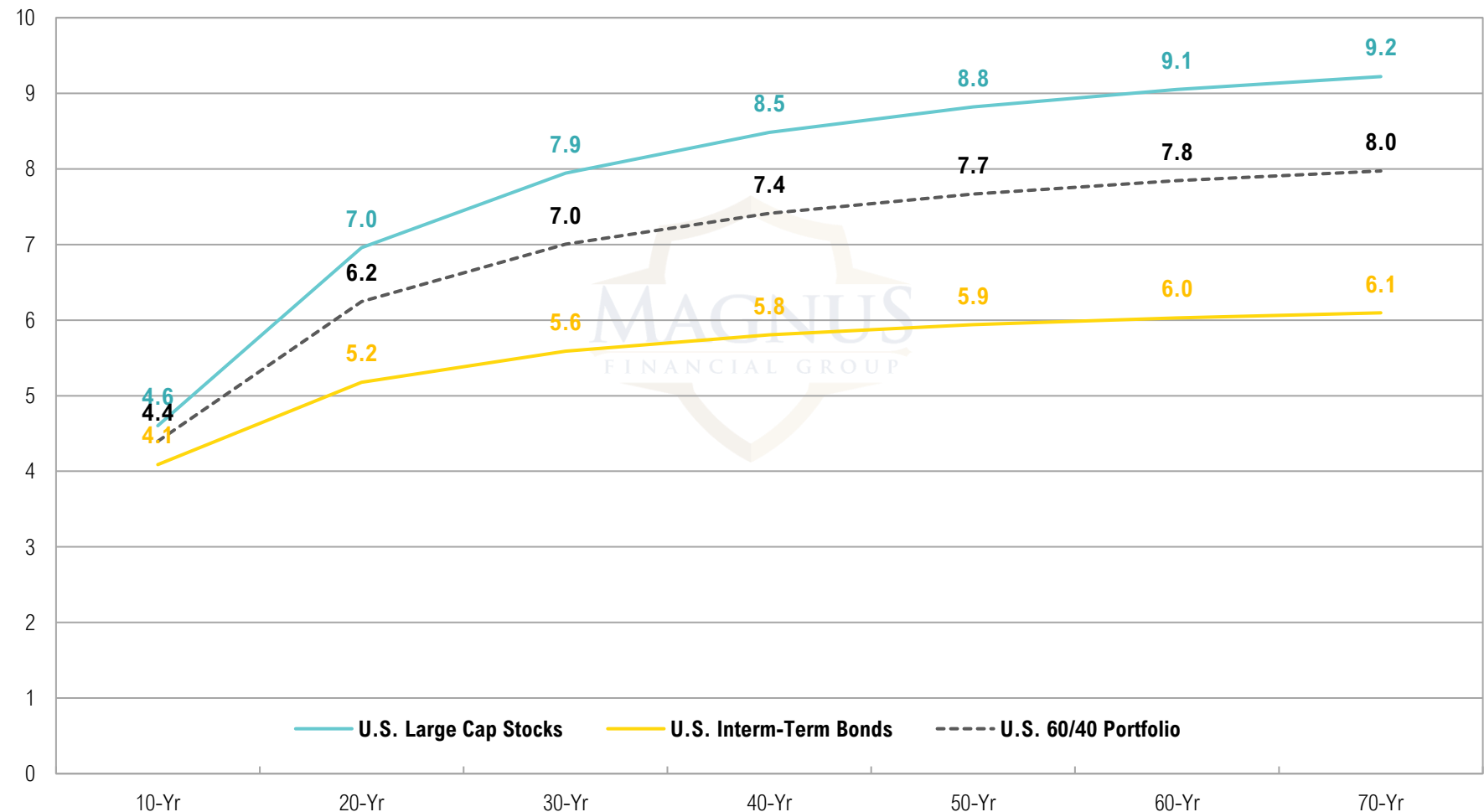
³ Estimated returns include impact of currency adjustment † Reported on a taxable-equivalent basis assuming 35% marginal tax rate.

Source: Bloomberg, CA, Pitchbook, Morningstar, NAREIT, SpringTide calculations

© 2022 Magnus Financial Group LLC. All Rights Reserved

Fixed income returns saw sizable improvements over shorter time periods and now offer similar returns to U.S. Large Cap Stocks over 10 years (pre-inflation, which is big unknown)

EXPECTED TOTAL RETURN, % ANNUALIZED

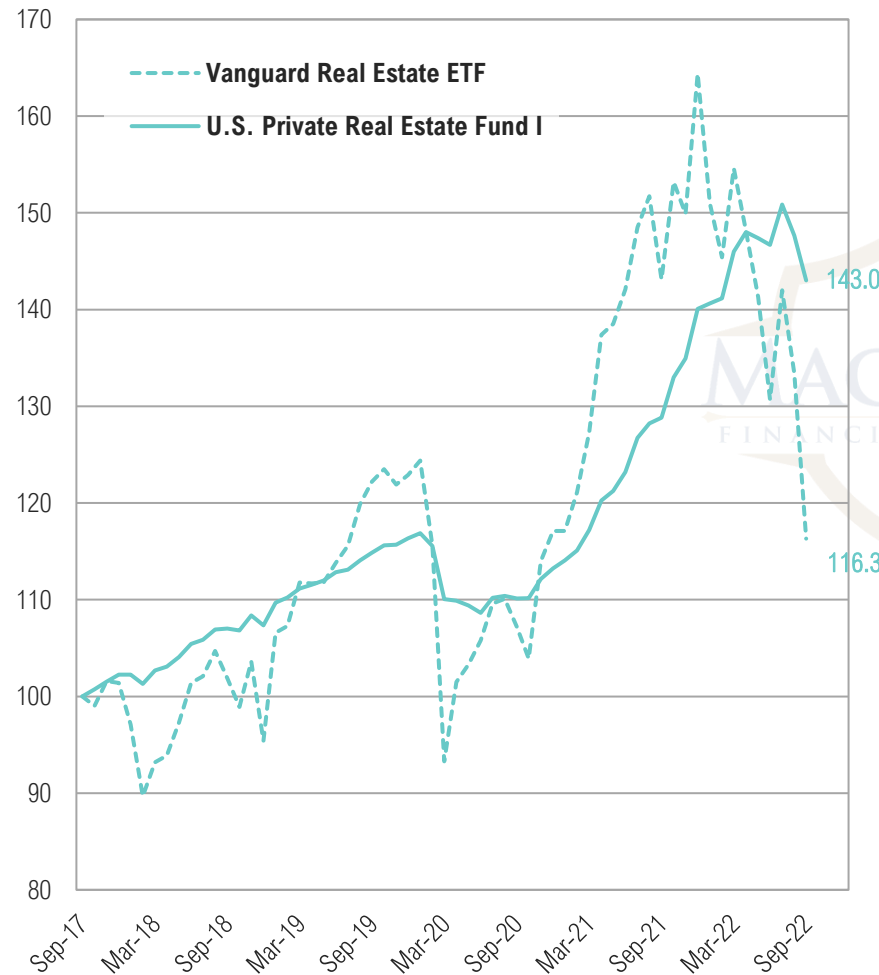


Source: Bloomberg, CA, Pitchbook, Morningstar, NAREIT, SpringTide calculations

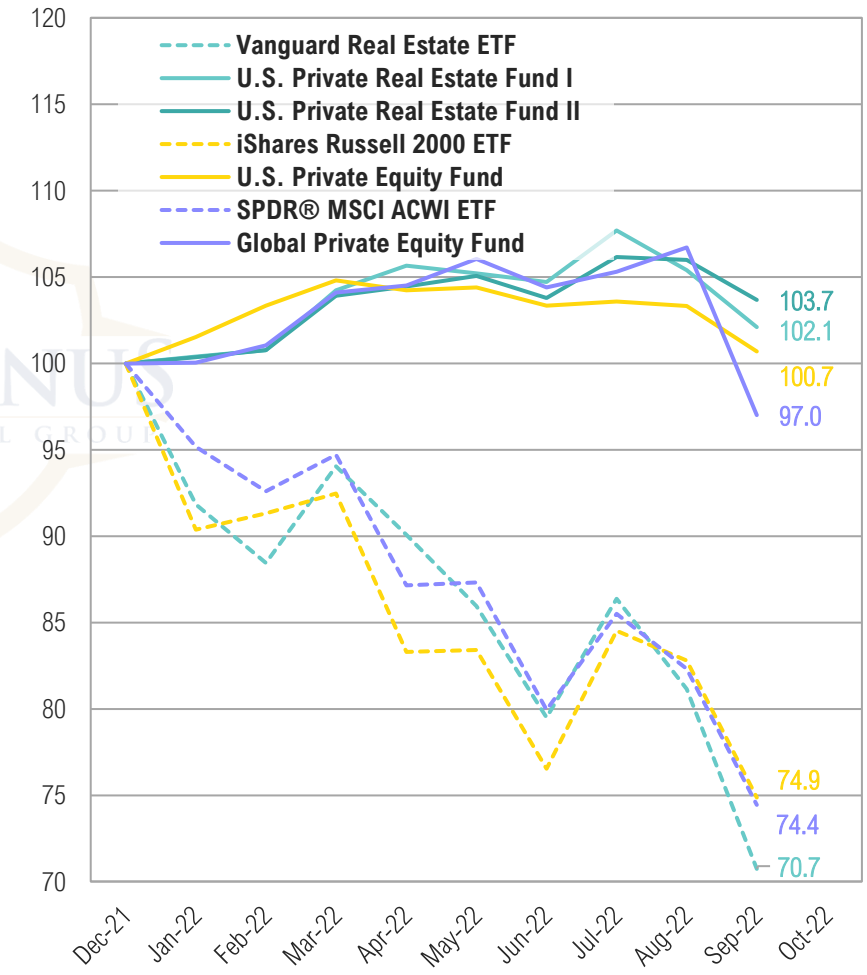
© 2022 Magnus Financial Group LLC. All Rights Reserved

Private market interval funds have significantly outperformed their passive investable benchmarks YTD as net-asset-values yet to catch down to reality

GROWTH OF 100



GROWTH OF 100



Source: Bloomberg. As of 9/30/2022

© 2022 Magnus Financial Group LLC. All Rights Reserved

APPENDIX 1: ASSET CLASS DEFINITIONS

ASSET CLASS BENCHMARKS

Asset class performance was measured using the following benchmarks:

U.S. Large Cap Stocks: S&P 500 TR Index

U.S. Small & Micro Cap Stocks: Russell 2000 TR Index

Intl Dev Large Cap Stocks: MSCI EAFE GR Index

Intl Dev Small & Micro Stocks: MSCI EAFE GR Index

Emerging & Frontier Market Stocks: MSCI Emerging Markets GR Index

Global Stocks: MSCI ACWI GR Index

Private Equity: Cambridge Associates U.S. Private Equity

Venture Capital: Cambridge Associates U.S. Venture Capital

U.S. Inter-Term Muni Bonds: Bloomberg Barclays 1-10 (1-12 Yr) Muni Bond TR Index

U.S. High Yield Muni Bonds: Bloomberg Barclays High Yield Muni TR Index

U.S. Inter-Term Bonds: Bloomberg Barclays U.S. Aggregate Bond TR Index

U.S. High Yield Bonds: Bloomberg Barclays U.S. Corporate High Yield TR Index

U.S. Bank Loans: S&P/LSTA U.S. Leveraged Loan Index

Intl Developed Bonds: Bloomberg Barclays Global Aggregate ex-U.S. Index

Emerging & Frontier Market Bonds: JPMorgan EMBI Global Diversified TR Index

Public BDCs: S&P BDC Index

U.S. REITs: MSCI U.S. REIT GR Index

Ex U.S. Real Estate Securities: S&P Global Ex-U.S. Property TR Index

Private Real Estate: Cambridge Associates Real Estate

Commodity Futures: Bloomberg Commodity TR Index

Midstream Energy: Alerian MLP TR Index

Gold: LBMA Gold Price

Long-Short Equity: HFRI Equity Hedge Index

Global Macro: HFRI Macro-CTA Index

Relative Value: HFRI Relative Value Index

Closed-End Funds: S-Network Composite Closed-End TR Index

Insurance-Linked Securities: SwissRe Global Cat Bond TR Index

Digital Assets: MVIS CryptoCompare Digital Assets 25 Index

Cash & Cash Equivalents: Bloomberg Barclays U.S. T-Bill 1-3 Month TR Index

U.S. Short-Term Muni Bonds: Bloomberg Barclays Municipal 1-3 Yr TR Index

U.S. Short-Term Bonds: Bloomberg Barclays U.S. Agg 1-3 Yr TR Index

U.S. 60/40: 60% S&P 500 TR Index 40% Bloomberg Barclays U.S. Aggregate Bond TR Index

Global 60/40: 60% MSCI ACWI GR Index 40% Bloomberg Barclays Global Aggregate Bond TR Index

DISCLAIMER

Magnus Financial Group LLC (“Magnus”) did not produce and bears no responsibility for any part of this report whatsoever, including but not limited to any macroeconomic views, inaccuracies or any errors or omissions. Research and data used in the presentation have come from third-party sources that Magnus has not independently verified presentation and the opinions expressed are not by Magnus or its employees and are current only as of the time made and are subject to change without notice.

This report may include estimates, projections or other forward-looking statements, however, due to numerous factors, actual events may differ substantially from those presented. The graphs and tables making up this report have been based on unaudited, third-party data and performance information provided to us by one or more commercial databases. Except for the historical information contained in this report, certain matters are forward-looking statements or projections that are dependent upon risks and uncertainties, including but not limited to factors and considerations such as general market volatility, global economic risk, geopolitical risk, currency risk and other country-specific factors, fiscal and monetary policy, the level of interest rates, security-specific risks, and historical market segment or sector performance relationships as they relate to the business and economic cycle.

Additionally, please be aware that past performance is not a guide to the future performance of any manager or strategy, and that the performance results and historical information provided displayed herein may have been adversely or favorably impacted by events and economic conditions that will not prevail in the future. Therefore, it should not be inferred that these results are indicative of the future performance of any strategy, index, fund, manager or group of managers. Index benchmarks contained in this report are provided so that performance can be compared with the performance of well-known and widely recognized indices. Index results assume the re-investment of all dividends and interest.

The information provided is not intended to be, and should not be construed as, investment, legal or tax advice nor should such information contained herein be construed as a recommendation or advice to purchase or sell any security, investment, or portfolio allocation. An investor should consult with their financial advisor to determine the appropriate investment strategies and investment vehicles. Investment decisions should be made based on the investor's specific financial needs and objectives, goals, time horizon and risk tolerance. This presentation makes no implied or express recommendations concerning the way any client's accounts should or would be handled, as appropriate investment decisions depend upon the client's specific investment objectives.

Investment advisory services offered through Magnus; securities offered through third party custodial relationships. More information about Magnus can be found on its Form ADV at www.adviserinfo.sec.gov.

TERMS OF USE

This report is intended solely for the use of its recipient. There is a fee associated with the access to this report and the information and materials presented herein. Re-distribution or republication of this report and its contents are prohibited. Expert use is implied.