**April 28, 2022** 

## Inversion! Time to Start the Recession Clock?

The 2-year vs 10-year yield curve has inverted for the first time since 2019 (chart 1). This bond market phenomenon means the rate of the 2-year note is now higher than the 10-year note yield. Historically, when this curve inverts there has been a better than two-thirds chance of a recession at some point in the next year and a greater than 98% chance of a recession at some point in the next two years. So, should we start the countdown to recession?

First, we believe the financial media focuses too strongly on the 2s10s curve and a more comprehensive look at the treasury term structure is needed to add context. It is true recessions have always been predated by inverted yield curves, but not all inversions have led to recessions. Investors are rightfully concerned that inversions raise the



Chart 1 Source: Financial Times; from 1975-2022

probability of a recession, but recession alarms shouldn't really start ringing when just one portion of the yield curve inverts. Instead, the odds of a recession rise as an increasing number of points in the yield curve invert. For instance, while 2s10s has inverted, the three-month vs 10-year curve is nowhere even close to inverted and was recently at its steepest level in five years. Historically, when just a few points of the yield curve invert,

the probability of a recession only marginally increases. It isn't until most points in the curve invert that a recession in the next two years becomes increasingly inevitable.

In chart 2, it shows all possible combinations of the constant maturity Treasury curve and calculated how many of those curve points were inverted on any given day going back to 1970. As you can see, the economy has gone into a recession in the two years following every point at which more than half of the points in the yield curve that inverted. Based on historical trends,

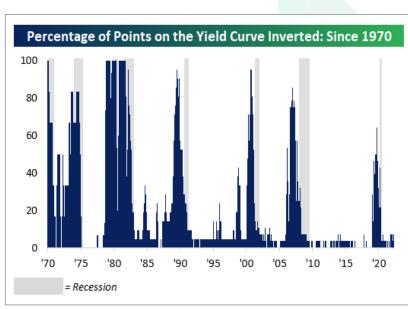


Chart 2 Source: Bespoke Investment Group

with just a few points in the yield curve inverted (7.1% of the points tracked), there's little in the way of a recession warning.

And not all yield curves should be treated equally (chart 3). There are seven yield curves that, when inverted, have historically resulted in a recession at some point in the following two years 100% of the time, and all seven of those points on the curve remain relatively steep with a minimum spread of 93 bps and all the others at more than 200 bps. Looking ahead, we'll need to see more points on the Treasury curve listed at the top of the table start to invert before fully expecting a recession.

And there are other factors that make this "signal" less meaningful. For one, the curve did not spend much time at all inverted and has already begun to steepen. And in general, we believe the bond markets signaling power has been weakened since the 2008 crash because of central bank intervention, regulatory pressure on banks, and

Recession Probability by Yield Curve: Since 1970						
	% of Time a Recession Ensued in		Reading as of			
Yield Curve	the 2 Years Following Inversion	<b>Trading Days</b>	3/25 Close (bps)			
30Y vs 1Y	100.0	1525	93			
30Y vs 3M	100.0	531	205			
30Y vs 1M	100.0	178	243			
20Y vs 1M	100.0	162	257			
10Y vs 1M	100.0	338	231			
5Y vs 1M	100.0	453	238			
2Y vs 1M	100.0	487	213			
20Y vs 3M	99.9	903	219			
10Y vs 1Y	99.8	1977	81			
30Y vs 2Y	99.4	1429	30			
10Y vs 3M	99.2	646	193			
10Y vs 2Y	98.0	1572	18			
5Y vs 1Y	97.1	2150	88			
2Y vs 1Y	96.4	1739	63			
20Y vs 1Y	96.1	2202	107			
5Y vs 2Y	94.0	1883	25			
5Y vs 3M	93.5	826	200			
10Y vs 5Y	92.7	1737	-7			
30Y vs 5Y	91.7	1414	5			
1Y vs 1M	90.8	467	150			
2Y vs 3M	88.2	920	175			
20Y vs 2Y	85.5	1916	44			
1Y vs 3M	84.1	891	112			
30Y vs 10Y	83.6	1675	12			
20Y vs 5Y	78.5	2652	19			
20Y vs 10Y	71.2	2852	26			
3M vs 1M	53.9	824	38			
30Y vs 20Y	46.1	5481	-14			

liability-driven investors that hold bonds regardless of price Chart 3 Source: Bespoke Investment Group, as of 3/25/22 or risk, like pension funds and insurers. The only example of 2s10s inversion since the QE era is 2019. And while that signal did prove correct, it was more like a broken clock being right than an accurate economic forecasting tool because of the policy induced recession brought on by the covid pandemic. Therefore, we must consider other factors like the strong job market, strong earnings, strong household and business spending, and a strong housing market.

Additionally, if the signal is correct, in chart 4, history shows us the previous four times the 2s10s yield curve inverted, the S&P 500 rallied for another 17 months and gained 28.8% until the ultimate peak. Therefore, panic selling into an inversion has never been a good idea. And in fact, this would mark the first time that the S&P 500 declined in the three months leading up to an inversion.

## Yield Curve Inversions Can Be Bullish For Stocks

2 year/10 year Yield Curve Inversions

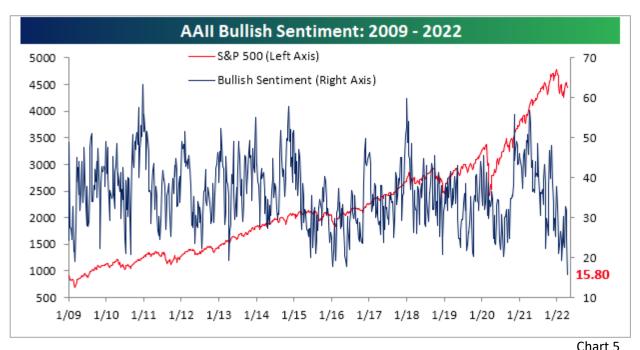
12/13/1988       7/16/1990       33.2%       19.1         5/26/1998       3/24/2000       39.6%       22.0         12/27/2005       10/9/2007       24.6%       21.4         8/27/2019       2/19/2020       18.0%       5.8         Average       28.8%       17.1	Date of	Bull Market Peak	S&P 500 Index	Months Till Bull	
5/26/1998       3/24/2000       39.6%       22.0         12/27/2005       10/9/2007       24.6%       21.4         8/27/2019       2/19/2020       18.0%       5.8         Average       28.8%       17.1	Inversion	Date	Return	Market Peak	
12/27/2005     10/9/2007     24.6%     21.4       8/27/2019     2/19/2020     18.0%     5.8       Average     28.8%     17.1	12/13/1988	7/16/1990	33.2%	19.1	
8/27/2019 2/19/2020 18.0% 5.8 Average 28.8% 17.1	5/26/1998	3/24/2000	39.6%	22.0	
Average 28.8% 17.1	12/27/2005	10/9/2007	24.6%	21.4	
	8/27/2019	2/19/2020	18.0%	5.8	
Modian 38.09/ 20.3		Average	28.8%	17.1	
Wedian 20.9% 20.2		Median	28.9%	20.2	

Source: LPL Research, St. Louis Fed 03/30/2022 (Last Four Inversions)

All indexes are unmanaged and cannot be invested into directly. Past performance is no guarantee of future results.

Chart 4

In summary, we don't believe the 2yr-10yr signal to be a golden rule of investing. The golden rule of investing is simple: don't bet against stocks unless you think that there is a recession around the corner, because equities and bear markets tend to overlap. While the US may not be able to avoid a recession like it did during the 2010s expansion, an economic downturn is unlikely until 2024. Therefore, we re-affirm our positioning that the 2021 selloff in risk assets is a buying opportunity, especially with sentiment at recession level lows as seen in chart 5.

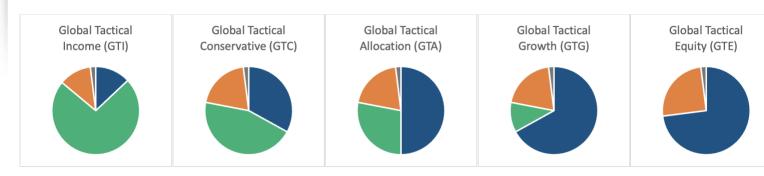


The coming investment environment is set to be defined by the Federal Reserve's twin effort to raise interest rates and shrink its bloated balance sheet. Rate hikes began last month, and the latest Fed minutes suggest that quantitative tightening may be kicked off at its May 3-4 meeting. The nice thing about analyzing this twin tightening cycle is that the only time it has happened before was in the very recent past, and so the lessons should be relevant. Last time around, the Fed hiked interest rates from December 2015 to December 2018 and conducted QT from October 2017 to July 2019. While, the Fed will move at a faster pace to confront inflation than the last episode, there is a bigger liquidity buffer, and we expect a similar environment for assets. For the time being, we believe bond yields and inflation may be near a short-term peak and we believe equities will rise modestly over the next year.

## Recent Portfolio Changes

No Changes this Month.

## Allocations as of 03/10/2022



		GTI	GTC	GTA	GTG	GTE
Equities		13%	33%	50%	67%	73%
DFNV	Donoghue Forlines Risk Managed Innovation ETF	5%	18%	25%	32%	35%
TTAC	FCF US Quality ETF	5%	10%	15%	20%	22%
TTAI	FCF International Quality ETF	3%	5%	15%	15%	16%
Fixed Incom	ne	73%	45%	28%	11%	0%
FLOTX	Donoghue Forlines Risk Managed Income Fund	43%	28%	20%	11%	0%
DFHY	Donoghue Forlines Tactical High Yield ETF	30%	17%	8%	0%	0%
Alternatives	5	12%	20%	20%	20%	25%
DFRA	Donoghue Forlines Yield Enhanced Real Asset ETF	12%	20%	20%	20%	25%
Cash		2%	2%	2%	2%	2%
CASH-USD		2%	2%	2%	2%	2%

Learn more about our outlook and portfolios by registering for today's <u>Quarterly Review webinar at 4pm EDT</u>. You can also get more information by calling (800) 642-4276 or by emailing <u>AdvisorRelations@donoghueforlines.com</u>.

Best regards,

John A. Forlines III
Chief Investment Officer



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The Donoghue Forlines Global Tactical Allocation Portfolio composite was created July 1, 2009. The Donoghue Forlines Global Tactical Income Portfolio composite was created August 1, 2014. The Donoghue Forlines Global Tactical Growth Portfolio composite was created April 1, 2016. The Donoghue Forlines Global Tactical Conservative Portfolio composite was created January 1, 2018. The Donoghue Forlines Global Tactical Equity Portfolio composite was created January 1, 2018.

Results are based on fully discretionary accounts under management, including those accounts no longer with the firm. Individual portfolio returns are calculated monthly in U.S. dollars. These returns represent investors domiciled primarily in the United States. Past performance is not indicative of future results. Performance reflects the re-investment of dividends and other earnings.

Net returns are presented net of management fees and include the reinvestment of all income. Net of fee performance, when composite accounts are 100% non-fee paying, was calculated using a model fee of 1% representing an applicable wrap fee. The investment management fee schedule for the composite is: Client Assets = All Assets; Annual Fee % = 1.00%. Actual investment advisory fees incurred by clients may vary.

The Donoghue Forlines Global Tactical Allocation Benchmark is the HFRU Hedge Fund Composite. The Blended Benchmark Conservative is a benchmark comprised of 80% HFRU Hedge Fund Composite and 20% Bloomberg Barclays Global Aggregate, rebalanced monthly. The Blended Benchmark Growth is a benchmark comprised of 80% HFRU Hedge Fund Composite and 20% MSCI ACWI, rebalanced monthly. The Blended Benchmark Income is a benchmark comprised of 60% HFRU Hedge Fund Composite and 40% Bloomberg Barclays Global Aggregate, rebalanced monthly. The Blended Benchmark Equity is a benchmark comprised of 60% HFRU Hedge Fund Composite and 40% MSCI ACWI.

The MSCI ACWI Index is a free float adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets. The HFRU Hedge Fund Composite USD Index is designed to be representative of the overall composition of the UCITS-Compliant hedge fund universe. It is comprised of all eligible hedge fund strategies; including, but not limited to equity hedge, event driven, macro, and relative value arbitrage. The underlying constituents are equally weighted. The Bloomberg Barclays Global Aggregate Index is a flagship measure of global investment grade debt from twenty-four local currency markets. This multi-currency benchmark includes treasury, government-related, corporate and securitized fixed-rate bonds from both developed and emerging markets issuers.

Index performance results are unmanaged, do not reflect the deduction of transaction and custodial charges or a management fee, the incurrence of which would have the effect of decreasing indicated historical performance results. You cannot invest directly in an Index. Economic factors, market conditions and investment strategies will affect the performance of any portfolio, and there are no assurances that it will match or outperform any particular benchmark.

Policies for valuing portfolios, calculating performance, and preparing compliant presentations are available upon request. For a compliant presentation and/or the firm's list of composite descriptions, please contact 800-642-4276 or info@donoghueforlines.com.

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