

The GIC Weekly



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Upcoming Catalysts

June 17 Empire State Manufacturing Survey
June 17 NAHB/Wells Fargo Housing Market Idx.
June 18 Japan trade balance
June 18 US building permits
June 18 US housing starts
June 19 FOMC meeting
June 20 Japan Consumer Price Index
June 20 Philadelphia Fed Survey
June 20 US initial jobless claims
June 21 Markit US Manufacturing, Services PMI
June 21 US existing home sales

What We Are Talking About

- **“Insurance” Fed Cuts?** With US stocks off only 2% from their all-time highs, investors have again embraced the “bad news is good news” narrative, wagering that weak inflation readings and lackluster labor stats will provide support for a Federal Reserve rate cut; the bulls argue cuts are needed to preserve market stability, offset trade-related uncertainty and lift inflation expectations, echoing the logic behind the Fed policy intervention in 1998; while the headlines seem to back up the argument, we remain skeptical; unlike 1998, when markets cratered and volatility soared, today’s backdrop remains complacent; after a decade of quantitative easing, our concern is that labor markets, inflation and the US dollar may not respond to cuts; “insurance” cuts risk repeating the policy errors that contributed to the 2000-2001 tech wreck; we advise against chasing the current stock market momentum; even if the Fed does cut, we expect range-bound markets, as our research suggests that the best equity gains are made after the third or fourth cut. **Consider** maintaining benchmark duration positions in fixed income portfolios to counter downside risk to stocks; it’s too early to sound the all-clear signal.

“Insurance” Fed Cuts?

The past week has seen markets regain momentum, with investors looking past the poor May payroll numbers and optimistically embracing the notion that weak data will force the Fed’s hand into cutting rates. In the space of a week, we have moved from having discounted three rate reductions over the next year to an 80% chance that the Fed will cut at the next meeting in July! While we appreciate that equity market gains this cycle have followed this Fed playbook to the letter, we are increasingly skeptical this time. Not only has the Treasury market failed to validate the “reflationary” narrative embedded in equity prices, but we also find bullish investors struggling to justify a

cut. The arguments coming out of the rate reduction camp range from the necessity for cuts to preserve financial market stability, to their offsetting trade tension uncertainties, to their reigniting inflation expectations. Additionally, there have been politicized hints from Federal Reserve Chairman Jerome Powell, who has intimated he would cut “to extend the economic cycle,” even though that is not the Fed’s legislated mandate. If trade uncertainty is the issue, do rate cuts insulate the economy from an increasingly mercurial US tariff policy? And with the 10-year Treasury hovering near 2% and the S&P 500 stock index within 2% of its all-time high, what would the Fed be warding against?

First, it appears that investors’ comfort with pre-emptive Fed rate cuts rests on the 1998 episode in which Fed Chairman Alan Greenspan famously reversed course in response to the emerging market debt crisis, cutting rates by 75 basis points in a span of nine months. Greenspan’s move appeared to revive the cycle, sustaining a market bubble that climaxed in the tech wreck of 2000-2001. While one can argue that a rate cut now is similarly justified as a response to an exogenous shock—the collapse in global trade this year versus the meltdown in 1998 in emerging market currencies and capital flight—the Global Investment Committee (GIC) sees the current economic and market backdrop as fundamentally different, making the comparison weak. For starters, in 1998, Asian economies were constrained around monetary accommodation due to high inflation rates, with soaring fiscal and current account deficits restricting other policy actions. Plus, financial conditions were tightening around the world, similar to what we witnessed in December 2018. But the current financial environment is no longer constricted: According to an analysis by Morgan Stanley & Co. economists, conditions are no tighter than they were back in September 2018 when the stock market was hitting an all-time high and 10-year rates were above 3%. Since then, financial conditions have improved by almost 20 basis points, as collapsing Treasury rates, strong equity markets and falling oil prices have more than offset a stronger dollar and wider credit spreads (see *Chart of the Week*, page 3).

A second factor driving the 1998 rate cuts was financial stability, which in the Greenspan era was considered, alongside price stability and full employment, a “third mandate.” At the time of the 1998 actions, global markets were in correction territory (down 10% and 20%), with the S&P 500 down 8%. The VIX, a measure of market volatility, had spiked, and true systemic contagion risks were genuinely being debated, given the amount of US dollar denominated debt that was outstanding and the shrinking US dollar reserves to service debt payments.

While the trade tensions have weighed on global GDP forecasts and contributed to slowing (see *Weekly Warm Up*, June 10)—and have added to currency market volatility, especially in the renminbi and peso versus the US dollar—it is hard to argue that systemic market risks are being discounted. Rather, the rapid deterioration in global bond yields seems to be signaling concerns about central bank policy mistakes around the business cycle. Meanwhile, the fact that the S&P 500 is once again within 2% of its all-time high, while earnings estimates are falling and economic surprises have been negative, is reflective of the equity market’s complacency. The chart in this week’s *Fixed Income Insight* (see page 5) suggests the equity and bond market dispersion, with the ratio between equity market volatility and bond market volatility as measured by the VIX/MOVE ratio at low levels.

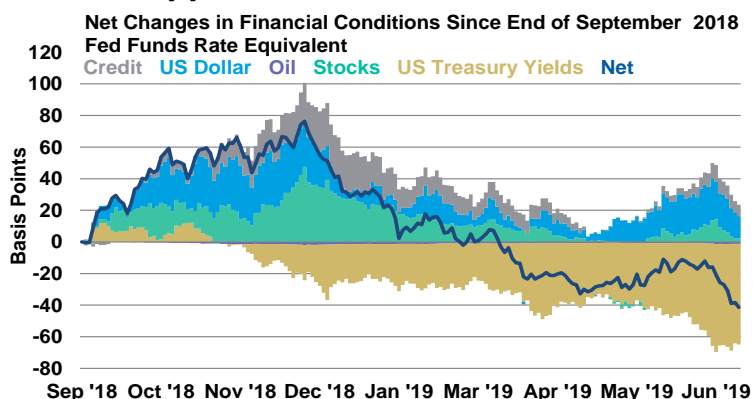
That leaves us with a rationale for “insurance” Fed rate cuts that hinges on inflation and a weakening jobs market. While we agree that employment has probably peaked—as evidenced by the weak May payroll data, a spike in layoffs suggested by the Challenger Report, and rollover in surveys of small business intent to hire—it’s hard to make the argument that the jobs market needs rescuing, given a 3.5% unemployment rate. The dynamics on inflation are more complicated: Though we have written repeatedly about the complex crosscurrents that have rendered the Fed’s 2% inflation goal elusive, it is not as if the bottom is falling out. The most recent inflation reading still shows core CPI running roughly at 1.9% and the core personal consumption expenditures (PCE) index at 1.6%. During the 1998 swoon, PCE readings fell to 1%!

Bottom Line: Markets are now discounting an 80% probability that the Fed will cut rates pre-emptively in July. We remain skeptical that the analogy to the 1998 precedent provides Chair Powell with the cover to act or that there are genuine grounds for easing based on financial conditions, inflation trends or employment. Absent a strong economic argument for cutting, we see a rate reduction as leaving the Fed open to the charge that it has lost its independence. History, in general, does not look kindly on the use of liquidity tools in addressing structural problems. The build-up of asset bubbles, though instantly gratifying, is likely to prove problematic, practically guaranteeing a return to negative real interest rates in the next recession. **Watch** stock market valuations that are overly premised on additional cuts that may not materialize. **Consider** maintaining benchmark duration positions in fixed income portfolios to counter downside risk to stocks. It’s way too early to sound the all-clear signal. ■

THE GIC WEEKLY

Chart of the Week: Financial Conditions Don't Support a Rate Cut

One of the rationales suggested for a July rate cut is that financial conditions are too tight. But as analysis by the Morgan Stanley & Co. economics team using a Fed methodology makes clear is that current financial conditions are actually nearly 20 basis points easier than they were in September. While the fed funds rate is higher, the recent collapse of Treasury yields, together with higher stock prices and the lower price of oil, have served as offsets.



Source: Morgan Stanley & Co. Research as of June 11, 2019

Asset Class Performance and Heat Map (as of June 14, 2019)

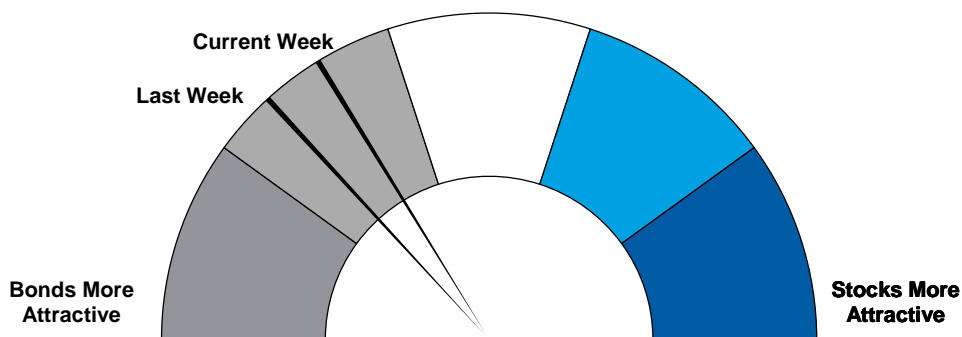
Asset Class	Annualized Returns (%)							Yield	Valuation		Volatility (%)		Correlation to Global Equities	
	YTD	1-Yr.	2018	3-Yr. ¹	5-Yr. ¹	10-Yr. ¹	20-Yr. ¹		Current YTM	Avg. YTM ²	30 Days	20 Yrs. ¹	30 Days	20 Yrs. ¹
Cash								2.48	2.48	1.75	0.10	0.55	-0.15	-0.06
90-Day US Treasury Bills	1.1	2.3	1.9	1.3	0.8	0.4	0.8	2.48	2.48	1.75	0.10	0.55	-0.15	-0.06
Global Equities								Current Div. Yld.	Current P/E	Avg. P/E²				
US Large-Cap Growth	19.5	6.2	-0.9	18.9	15.1	17.1	5.1	1.05	22.1	20.6	16.9	17.0	0.89	0.89
US Large-Cap Value	12.7	6.2	-6.5	11.7	8.7	13.4	5.8	3.18	13.6	13.7	11.9	13.8	0.86	0.88
US Mid-Cap Growth	23.5	3.7	-7.9	13.9	10.5	15.9	7.2	0.60	23.7	26.3	15.7	22.6	0.92	0.81
US Mid-Cap Value	15.4	1.8	-11.4	11.7	8.9	15.4	9.2	2.89	14.2	14.4	11.7	15.9	0.82	0.88
US Small-Cap Growth	19.0	-0.7	-6.6	17.0	11.2	16.6	10.1	0.59	27.4	24.0	17.0	21.3	0.90	0.83
US Small-Cap Value	11.8	-8.0	-13.3	10.8	7.8	14.7	9.7	2.93	15.5	17.2	14.8	17.1	0.82	0.85
Europe Equity	12.8	-3.6	-14.3	7.6	1.9	8.6	4.4	3.81	13.5	13.8	13.1	17.9	0.88	0.95
Japan Equity	6.5	-8.0	-12.6	7.3	6.8	7.4	2.7	2.58	12.5	18.8	12.2	16.1	0.12	0.70
Asia Pacific ex Japan Equity	13.2	3.0	-10.2	10.3	3.9	10.4	8.1	3.91	15.2	14.5	10.7	19.3	0.32	0.88
Emerging Markets	6.2	-7.1	-14.2	11.7	4.4	7.9	8.2	2.84	12.1	11.2	11.2	21.6	0.40	0.87
Global Fixed Income								Current YTM	Current Spread	Avg. Spread²				
Short-Term Fixed Income	2.4	4.2	1.6	1.3	1.2	1.6	3.2	2.07	17.0	31.0	1.3	1.4	-0.51	-0.15
US Fixed Income	5.2	7.4	0.0	1.9	2.6	3.7	4.7	2.63	50.0	54.0	3.0	3.4	-0.53	-0.04
International Fixed Income	3.6	3.1	-1.9	0.4	-0.2	2.5	3.7	0.93	49.0	49.0	4.2	7.9	0.02	0.32
Inflation-Protected Securities	5.6	4.0	-4.2	2.5	1.0	4.1	5.5	-	-	-	4.6	7.7	0.04	0.45
High Yield	7.8	5.3	-4.1	6.4	4.0	10.1	7.9	6.47	447.0	499.0	3.0	9.5	0.91	0.75
Emerging Markets Fixed. Inc.	5.7	4.9	-6.2	2.3	-1.0	3.5	7.3	5.84	294.0	330.0	4.5	11.5	0.56	0.65
Alternative Investments								Current Div. Yld.						
Real Estate/REITs	15.6	9.1	-5.5	7.1	6.7	12.3	8.8	3.88	-	-	7.9	17.8	0.56	0.80
MLP/Energy Infrastructure ³	16.4	0.2	-12.4	1.6	-5.8	8.8	-	7.77	-	-	13.7	17.3	0.60	0.46
Commodities ex Prec. Metals	2.6	-12.3	-12.5	-0.4	-10.9	-3.7	0.6	-	-	-	16.4	16.7	0.39	0.47
Precious Metals	2.3	-2.1	-4.6	-2.4	-2.1	2.8	6.7	-	-	-	11.1	19.0	-0.27	0.19
Hedged Strategies ⁴	3.6	-3.3	-6.7	2.0	0.0	1.6	-	-	-	-	1.7	5.6	0.50	0.66
Managed Futures ⁵	1.1	-0.9	-3.2	-1.3	0.2	-1.7	-	-	-	-	2.9	7.5	0.32	0.14
S&P 500	16.3	5.9	-4.4	14.9	11.6	15.3	6.0	1.91	16.5	15.7	13.02	14.5	0.95	0.95
Russell 2000	13.6	-8.4	-11.0	13.6	8.6	14.1	8.2	1.36	25.9	20.3	16.89	19.4	0.86	0.82
MSCI EAFE	11.3	-3.9	-13.4	7.8	3.1	8.5	4.3	3.51	13.4	14.6	9.57	16.3	0.84	0.96
MSCI AC World	13.7	0.9	-8.9	12.0	7.5	11.7	5.4	2.62	14.9	15.1	10.15	15.2	1.00	1.00

Note: Performance values calculated using USD. 1. As of May 31, 2019. 2. 20-year average as of May 31, 2019. 3. Volatility and Correlation: June 30, 2006 – Present. 4. Volatility and Correlation: Jan 31, 1998 – Present Hedged strategies consist of hedge funds and managed futures 5. Volatility and Correlation: February 28, 1998 – Present. Cheap = Below -0.5 standard deviation; Moderate = Between +0.5 standard deviation and -0.5 standard deviation; Expensive = Above +.5 std dev. Standard deviation (volatility) is a measure of the dispersion of a set of data from its mean.

Source: Factset, Bloomberg, Morgan Stanley Wealth Management GIC.

THE GIC WEEKLY

Short-Term Stock and Bond Indicator



	Macro		Policy		Fundamentals		Sentiment and Technicals	
	Growth	Inflation	Rates	Liquidity	Valuation & Market	Earnings	Sentiment	Technicals
Current	Very Negative	Neutral	Very Positive	Neutral	Neutral	Neutral	Very Negative	Neutral
Last Week	Neutral	Neutral	Very Positive	Very Negative	Very Negative	Neutral	Very Negative	Neutral

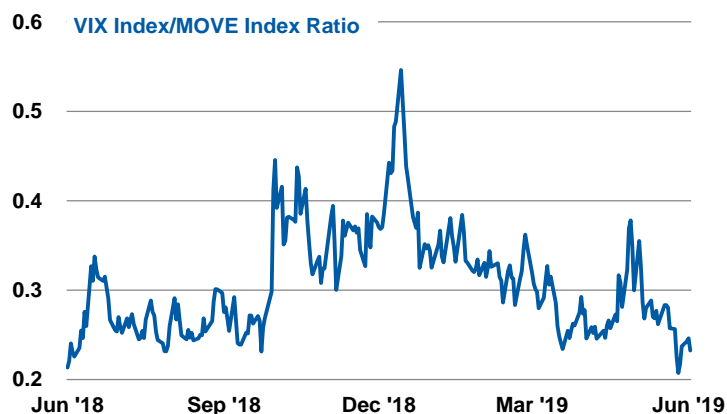
Indicator	Category	Reading
PMI (+)	Growth	Risk Off
Durable Goods (+)		Risk Off
Retail Sales (+)		Neutral
Manufacturing Hours Worked (+)		Risk Off
Commodity Prices (+)	Inflation	Neutral
Yield Curve: 10-Yr./Three-Mo.(-)	Rates	Risk On
Yield Curve: Two-Yr./Three-Mo.(-)		Risk On
Pace of Interest Rate Hikes (-)		Risk On
Term Premium Model (-)		Risk Off
High Yield Spreads (-)	Liquidity	Neutral
Investment Grade Spreads (-)		Neutral
Financial Conditions (-)		Risk Off
S&P 500 Earnings/Baa Yield (+)	Valuation & Market Behavior	Neutral
Large vs. Small Performance (-)		Neutral
High- vs. Low-Quality Performance (-)		Risk Off
High- vs. Low-Beta Performance (+)		Risk Off
S&P 500 Forward Price/Earnings Ratio (+)		Neutral
Earnings Revisions Breadth (-)	Earnings	Neutral
Global Risk Demand (+)	Sentiment	Risk Off
Implied Currency Volatility (-)		Neutral
Five-Yr. Macro Sensitivity (-)		Risk Off
% Stocks Above 200-Day Moving Avg. (+)	Technicals	Neutral
Cumulative Advance/Decline (+)		Neutral
S&P 500 Put/Call Ratio (-)		Neutral
Emerging Market Fund Flows (+)		Neutral
Smart Money Flow Index (+)		Neutral
Note: + Indicates that a rise in the indicator is linked to a more favorable outlook for risk assets; - indicates that a rise in the indicator is linked to a less favorable outlook for risk assets. Color coding is set in accordance with the impact on risk assets.		Positive for Stocks Relative to Bonds
		Neutral
		Negative for Stocks Relative to Bonds

Note: Commodity prices are represented by the Bloomberg Commodity Index; pace of interest rate hikes by the Morgan Stanley Pace of Rate Hikes Index; high yield spreads by the Bloomberg Barclays Aggregate US High Yield Index; investment grade spreads by the Bloomberg Barclays US Aggregate Index; financial conditions by the Morgan Stanley Financial Conditions Index; global risk demand and implied currency volatility by the Morgan Stanley Standardized Global Risk Demand Index. For more information on our Term Premium Model, please refer to our special report, *Using the Term Premium to Manage Portfolio Duration*, March 2016.
 Source: Morgan Stanley Wealth Management GIC, Morgan Stanley & Co., Haver Analytics, Bloomberg, FactSet as of June 14, 2019

THE GIC WEEKLY

Fixed Income Insight: Volatile Indexes Suggest Complacency

One characteristic of the current environment that we continue to focus on is the dispersion in behavior between the stock and bond markets. One way to monitor that dynamic is the ratio between respective volatility indexes, the VIX and the MOVE. Currently, bond investors have been jumpy and yields have plummeted, discounting slowing ahead. At the same time, the stock market has been calmly grinding higher, causing the ratio to fall. A pickup in equity volatility to match bond market moves would likely spell downside trouble.



Source: Bloomberg as of June 12, 2019

Government Debt Monitor

	US			
	Yield (%)			Total Return (%)
Treasury Benchmark	Current	ΔWTD	ΔYTD	YTD
3-Month	2.17	-0.10	-0.19	1.11
2-Year	1.84	-0.01	-0.65	2.16
5-Year	1.83	-0.02	-0.68	4.17
10-Year	2.08	0.00	-0.60	6.44
30-Year	2.59	0.01	-0.43	10.44
2-Yr./10-Yr. Spread (bp)	24	0.84	4.35	-
10-Yr. TIPS Breakeven (bp)	164	-10.95	-7.40	-
Interest Rate Volatility† (bp)	81	12.13	14.24	-

Fixed Income Spread Dashboard

Investment Grade	Duration (Yrs.)	Yield-to-Worst (%)	OAS (bp)	OAS Range**	
				Rich	Cheap
MBS*	4.41	2.85	49	20	49
AAA	5.52	2.35	21	11	21
AA	6.37	2.68	62	46	76
A	7.54	3.06	97	68	122
BBB	7.71	3.75	164	111	201
High Yield					
BB	3.91	4.65	248	187	365
B	3.35	6.23	402	299	542
CCC	3.45	10.28	817	512	997

Unless stated, indexes utilized are FTSE Broad Investment Grade, FTSE High Yield, and FTSE Global Indexes

†Interest Rate Volatility measured by Merrill Lynch Option Volatility Estimate (MOVE) Index

*MBS distills high grade agency-rated mortgage-backed securities, a substantial subsector of investment grade indexes.

**OAS stands for Option-Adjusted Spread or spread over the Treasury. Grey diamond denotes current OAS; blue circle denotes two-year average.

Source: Bloomberg, The Yield Book® Software and Services. © 2019 FTSE Index LLC. All rights reserved. Data as of June 14, 2019

Government Debt Monitor

	Global			
	Yield (%)			Total Return (%)*
10-Year Govt. Bond	Current	ΔWTD	ΔYTD	YTD
France	0.09	0.01	-0.61	6.74
Germany	-0.26	0.00	-0.50	5.53
Japan	-0.13	-0.01	-0.13	2.37
Spain	0.50	-0.05	-0.92	9.44
UK	0.85	0.03	-0.43	4.61
3-Month LIBOR	2.41	-0.04	-0.40	-
US Tax Exempt				
10-Year AAA Muni	1.65	-0.51	-0.66	4.79
10-Yr. Muni/UST Ratio	79.50	-2.54	-6.82	-

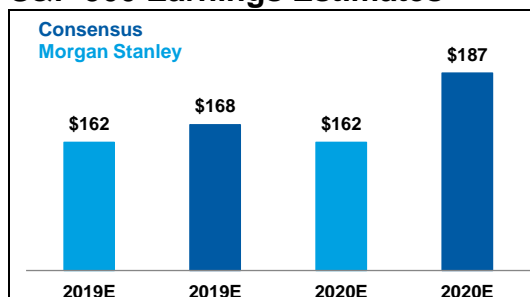
Benchmark Returns

Index	Total Returns (%)		
	YTD	MTD	2018
Bloomberg Barclays US Aggregate	5.20	0.38	0.01
Bloomberg Barclays US MBS	3.63	0.19	0.99
Bloomberg Barclays US IG Corporate	7.94	0.66	-2.51
Bloomberg Barclays Municipal	4.79	0.08	1.28
Bloomberg Barclays US High Yield	8.86	1.28	-2.08
Bloomberg Barclays Global Aggregate	4.16	0.86	-1.20
JPMorgan Emerging Market	9.03	1.58	-4.61

*Global total returns reflect Citigroup 7- to 10-year bond indexes and Muni total returns reflect Bloomberg Barclays Municipal Bond Index Total Return
Source: Bloomberg, Thomson Reuters Municipal Market Data (MMD) as of June 14, 2019

THE GIC WEEKLY

S&P 500 Earnings Estimates



MS & Co. S&P 500 Price Target: Midyear 2020

Landscape	Earnings	Price/Earnings Multiple	Price Target	Upside / Downside
Bull Case	\$182	16.7	3,000	3.9%
Base Case	\$166	16.5	2,750	-4.7%
Bear Case	\$149	16.1	2,400	-16.9%
Current S&P 500 Price			2,887	

Source: FactSet, Thomson Reuters, Morgan Stanley & Co. Research as of June 14, 2019

Note: Price targets are based on estimated June 2021 earnings. Source: Thomson Reuters, Morgan Stanley & Co. Research as of June 14, 2019

S&P 500 Sector Performance and Valuation (as of June 14, 2019)

Index Name	Total Return			Dividend Yield (%)	Beta	20-Year Avg. Forward 12-Mo. PE	Forward 12-Mo. P/E*
	WTD (%)	YTD (%)	1-Year (%)				
S&P 500	0.53	16.29	5.87	1.91		15.6	16.5
Energy	-0.47	7.41	-17.30	3.60	1.01	17.2	15.3
Materials	0.52	15.18	-2.08	2.24	0.97	13.9	17.1
Industrials	-0.43	17.82	1.99	1.94	1.05	16.0	15.6
Consumer Discretionary	2.46	20.58	6.49	1.21	1.18	17.9	21.0
Consumer Staples	0.76	17.11	18.80	2.80	0.50	16.7	19.4
Health Care	0.27	6.02	8.47	1.69	0.90	16.4	15.2
Financials	0.46	15.05	0.86	2.05	0.92	12.6	11.6
Information Technology	-0.17	23.25	6.55	1.43	1.38	20.0	18.8
Telecommunication Services	1.40	16.89	13.61	1.42	0.97	15.7	17.3
Utilities	1.24	15.82	26.95	3.16	0.18	14.3	18.8
Real Estate	0.77	22.41	23.08	2.98	0.46	15.4	19.6

*Dark blue/light blue/gray fill denotes whether current relative forward 12-month P/E is low/neutral/high relative to history.

Source: Morgan Stanley & Co. Research

Performance of Style and Cap Pairs (as of June 14, 2019)



Source: Morgan Stanley & Co. Small Cap is represented by the Russell 2000 Index; Large Cap represented by the Russell 1000 Index; Growth represented by the Russell 1000 Growth Index; Value represented by the Russell 1000 Value Index. Cyclicals and Defensives, and Quality and Junk are based on Morgan Stanley & Co. Research analysis.

THE GIC WEEKLY

Morgan Stanley & Co. Forecasts (as of June 14, 2019)

	Real GDP Growth (%)			10-Yr. Govt. Bond Yield (%)		Headline Inflation (%)			Currency Versus US Dollar		
	2018	2019E	2020E	Q4 '19E	Q2 '20E	2018	2019E	2020E	Q3 '19E	Q1 '20E	Q3 '20E
Global	3.7	3.2	3.4			2.8	2.7	2.9			
US	2.9	2.4	2.0	2.25	2.20	2.4	2.1	2.6			
Euro Zone	1.8	1.2	1.4			1.8	1.3	1.4	1.13	1.18	1.23
UK	1.4	1.3	1.4	1.10	1.20	2.5	2.0	1.9	1.24	1.30	1.40
Japan	0.8	0.5	0.3	-0.08	-0.08	1.0	0.4	0.6	109	106	101
Emerging Markets	4.8	4.3	4.7			3.4	3.4	3.5			
China	6.6	6.4	6.2			2.1	2.6	2.4	6.92	6.81	6.73

Source: Morgan Stanley & Co. Research

Macro Factor Heat Map (as of June 14, 2019)

	Economic Growth	Rates	Inflation / Deflation	Liquidity	Sentiment and Risk	Valuation	Earnings	GIC Conclusion
China	↑	↓	↑	↑	↑ Improving Technicals	↓	↓	Soft Landing Better than Expected
Japan	↑	↓	↓	↓	↑ Improving Technicals	↓	↑	Improving Profits and Weaker Yen
Brazil	↑	↓	↑	↓	↑	↑	↑	Political Stability Supports Recovery
Europe	↑	↓	↓	↑	↓	↓	↑	Cyclical Headwinds from China Trade Links Abating
	Risk Asset Positive	Neutral	Risk Asset Negative					

Note: Text in a factor box denotes a color change; In **China**, sentiment and risk moved from risk asset positive to risk asset neutral as technicals improved; In **Japan**, sentiment and risk moved from risk asset positive to risk asset neutral as technicals improved; for further explanation of the chart, see page 9.

Source: Morgan Stanley Wealth Management GIC

Market Factor Data Points (for the week ending June 14, 2019)

	Positives	Negatives
Global Growth	<ul style="list-style-type: none"> US industrial production rose 0.4% month over month in May, beating forecast of 0.2% US capacity utilization increased to 78.1% in May China retail sales surprised to the upside in May at 8.6% year over year vs. 8.1% forecast 	<ul style="list-style-type: none"> US weekly initial jobless claims climbed by 3,000 to 222,000, above the 215,000 expected May US retail sales grew 0.5% month over month vs. 0.6% projected China industrial production grew less than expected in May, 5.0% year over year vs. 5.4% forecast
Rates	<ul style="list-style-type: none"> Bank of Russia cut its key rate by 25 basis points, to 7.50% 	
Inflation		<ul style="list-style-type: none"> US core CPI increased 0.1% month over month in May vs. 0.2% expected US PPI was up 1.8% year over year in May vs. 2.0% forecast Japan PPI declined 0.1% in May, missing market expectations for no change
Sentiment and Flows	<ul style="list-style-type: none"> May NFIB Small Business Optimism Index came in at 105 vs. 102 expected 	<ul style="list-style-type: none"> U. of M. Consumer Sentiment Index below expectations in June at 97.9 vs. 98.0 projected

Source: Morgan Stanley Wealth Management GIC

THE GIC WEEKLY

Tactical Asset Allocation Reasoning

Global Equities	Relative Weight Within Equities	
US	Underweight	After the worst fourth quarter since 2008, the S&P 500 had its best first quarter since 1998. This kind of volatility is unusual and was precipitated by a Federal Reserve that appeared too hawkish in December, only to reverse course on its policy perhaps faster than we've ever witnessed. Meanwhile, economic and earnings fundamentals continue to deteriorate, leaving us with an unexciting target of just 2,750 for the S&P 500 this year. As a result, we remain underweight the US.
International Equities (Developed Markets)	Overweight	We maintain a positive bias for Japanese and European equity markets. The populist movements around the world are likely to drive more fiscal policy action in both regions, especially in Europe, which will allow the central banks to exit their extraordinary monetary policies and help valuations to rise.
Emerging Markets	Overweight	After a difficult first 10 months of 2018, emerging market (EM) equities have performed relatively well, a positive sign for future leadership. With our view for the US dollar to make a secular top this year, global nominal GDP growth should accelerate faster than the US GDP, particularly as China's fiscal stimulus takes hold. This should disproportionately benefit international equities, led by EM equities.
Global Fixed Income	Relative Weight Within Fixed Income	
US Investment Grade	Underweight	We have recommended shorter-duration* (maturities) since March 2013 given the extremely low yields and potential capital losses associated with rising interest rates from such low levels. We are also increasingly concerned that credit spreads do not reflect the current earnings recession in the US nor the significant leverage now present on corporate balance sheet. Therefore, we are underweight US investment grade credit.
International Investment Grade	Underweight	Yields are even lower outside the US, leaving very little value in international fixed income, particularly as the global economy begins to recover more broadly. While interest rates are likely to stay low, the offsetting diversification benefits do not warrant much, if any, position, in our view.
Inflation-Protected Securities	Overweight	With the recent collapse in real yields from the Fed's pivot, these securities offer little relative value in the context of our expectations for global growth to eventually accelerate, oil prices to trough and the US dollar to top. In short, inflation risk is underpriced.
High Yield	Underweight	High yield bonds have rebounded with equity markets this year as the Fed pivoted to a more dovish policy. Since February, high yield has underperformed investment grade as it starts to reflect earnings recession risk in the US. With a zero weighting in high yield since January 2018, we will revisit our allocation to high yield bonds during 2019 if spreads widen appropriately.
Alternative Investments	Relative Weight Within Alternative Investments	
REITs	Underweight	Real estate investment trusts (REITs) have performed very well as global growth slowed and interest rates fell. However, REITs remain expensive and are vulnerable to credit risks. We will revisit our position as nominal GDP troughs and/or valuations become more attractive.
Master Limited Partnerships/Energy Infrastructure*	Overweight	Master limited partnerships (MLPs) rebounded this year. With oil prices recovering and a more favorable regulatory environment, MLPs should provide a reliable and attractive yield relative to high yield. Global supply shortages from Iranian sanctions should also be supportive for fracking activity and pipeline construction, both of which should lead to an acceleration in dividend growth.
Hedged Strategies (Hedge Funds and Managed Futures)	Equal Weight	This asset category can provide uncorrelated exposure to traditional risk-asset markets. It tends to outperform when traditional asset categories are challenged by growth scares and/or interest rate volatility spikes. With the recent surge in volatility, these strategies could perform better on a relative basis.

***For more about the risks to Master Limited Partnerships (MLPs) and Duration, please see the Risk Considerations section beginning on page 10 of this report.**

Source: Morgan Stanley Wealth Management GIC as of June 14, 2019

THE GIC WEEKLY

Macro Factor Heat Map Key (see page 7)

	Economic Growth	Rates	Inflation / Deflation	Liquidity	Sentiment and Risk	Valuation	Earnings	Conclusion
Dark Blue	Economic growth robust	Steep yield curve	Low-moderate and rising inflation	Liquidity robust in economy / banking system	Shorter-term sentiment and technicals bearish	Risk assets attractively valued	Earnings outlook robust	Confluence of factors supports a risk-on investment approach
Light Blue	Economic growth neutral	Normal yield curve	Low-moderate and declining inflation; moderate inflation; higher and falling inflation	Liquidity neutral in the economy / banking system	Shorter-term sentiment and technicals neutral	Risk assets neutral	Earnings outlook neutral	Confluence of factors supports a neutral investment approach
Gray	Economic growth anemic	Flat/inverted yield curve	Very high/low inflation/deflation; high and rising inflation	Liquidity low in economy / banking system	Shorter-term sentiment and technicals bullish	Risk assets are richly valued	Earnings outlook anemic	Confluence of factors supports a risk-off investment approach
Up	Growth accelerating	Yield curve steepening	Inflation rising	Liquidity increasing	Sentiment becoming more bullish	Valuations rising	Earnings outlook improving	
Down	Growth declining	Yield curve flattening	Inflation falling	Liquidity decreasing	Sentiment becoming more bearish	Valuations falling	Earnings outlook worsening	
Signal Horizon	One to three years	One to three years	One to three years	One to three years	One to three months	Six months to two years	Six months to two years	
Inputs	<ul style="list-style-type: none"> Industrial production Unemployment Total return Earnings revisions Home prices OECD LEI (China and Brazil) MS & Co. ARIA (US) 	<ul style="list-style-type: none"> 10-year vs. 2-year government bond yield spread 	<ul style="list-style-type: none"> Consumer Price Index 	<ul style="list-style-type: none"> M1 growth Private credit growth Libor-OIS spread 	<ul style="list-style-type: none"> MS US Equity Risk Indicator (US) MS Combined Market Timing Indicator (Europe) MS Global Risk Demand Index Relative strength index Members above / below moving average. Index above / below moving average Consumer confidence 	<ul style="list-style-type: none"> Forward price/earnings ratio Price/book ratio Equity risk premium High yield option-adjusted spread 	<ul style="list-style-type: none"> Earnings revisions breadth Earnings surprise Return on equity 	<ul style="list-style-type: none"> Weighted average z-score of all factors

THE GIC WEEKLY

Index Definitions

For other index, indicator and survey definitions referenced in this report please visit the following:
<https://www.morganstanley.com/wealth-investmentsolutions/wmir-definitions>

Risk Considerations

MLPs

Master Limited Partnerships (MLPs) are limited partnerships or limited liability companies that are taxed as partnerships and whose interests (limited partnership units or limited liability company units) are traded on securities exchanges like shares of common stock. Currently, most MLPs operate in the energy, natural resources or real estate sectors. Investments in MLP interests are subject to the risks generally applicable to companies in the energy and natural resources sectors, including commodity pricing risk, supply and demand risk, depletion risk and exploration risk.

Individual MLPs are publicly traded partnerships that have unique risks related to their structure. These include, but are not limited to, their reliance on the capital markets to fund growth, adverse ruling on the current tax treatment of distributions (typically mostly tax deferred), and commodity volume risk.

The potential tax benefits from investing in MLPs depend on their being treated as partnerships for federal income tax purposes and, if the MLP is deemed to be a corporation, then its income would be subject to federal taxation at the entity level, reducing the amount of cash available for distribution to the fund which could result in a reduction of the fund's value.

MLPs carry interest rate risk and may underperform in a rising interest rate environment. MLP funds accrue deferred income taxes for future tax liabilities associated with the portion of MLP distributions considered to be a tax-deferred return of capital and for any net operating gains as well as capital appreciation of its investments; this deferred tax liability is reflected in the daily NAV; and, as a result, the MLP fund's after-tax performance could differ significantly from the underlying assets even if the pre-tax performance is closely tracked.

Duration

Duration, the most commonly used measure of bond risk, quantifies the effect of changes in interest rates on the price of a bond or bond portfolio. The longer the duration, the more sensitive the bond or portfolio would be to changes in interest rates. Generally, if interest rates rise, bond prices fall and vice versa. Longer-term bonds carry a longer or higher duration than shorter-term bonds; as such, they would be affected by changing interest rates for a greater period of time if interest rates were to increase. Consequently, the price of a long-term bond would drop significantly as compared to the price of a short-term bond.

Investing in foreign markets entails greater risks than those normally associated with domestic markets, such as political, currency, economic and market risks. **Investing in currency** involves additional special risks such as credit, interest rate fluctuations, derivative investment risk, and domestic and foreign inflation rates, which can be volatile and may be less liquid than other securities and more sensitive to the effect of varied economic conditions. In addition, international investing entails greater risk, as well as greater potential rewards compared to U.S. investing. These risks include political and economic uncertainties of foreign countries as well as the risk of currency fluctuations. These risks are magnified in countries with **emerging markets**, since these countries may have relatively unstable governments and less established markets and economies.

Alternative investments often are speculative and include a high degree of risk. Investors could lose all or a substantial amount of their investment. Alternative investments are suitable only for eligible, long-term investors who are willing to forgo liquidity and put capital at risk for an indefinite period of time. They may be highly illiquid and can engage in leverage and other speculative practices that may increase the volatility and risk of loss. Alternative Investments typically have higher fees than traditional investments. Investors should carefully review and consider potential risks before investing. Certain of these risks may include but are not limited to: Loss of all or a substantial portion of the investment due to leveraging, short-selling, or other speculative practices; Lack of liquidity in that there may be no secondary market for a fund; Volatility of returns; Restrictions on transferring interests in a fund; Potential lack of diversification and resulting higher risk due to concentration of trading authority when a single advisor is utilized; Absence of information regarding valuations and pricing; Complex tax structures and delays in tax reporting; Less regulation and higher fees than mutual funds; and Risks associated with the operations, personnel, and processes of the manager. Further, opinions regarding Alternative Investments expressed herein may differ from the opinions expressed by Morgan Stanley Wealth Management and/or other businesses/affiliates of Morgan Stanley Wealth Management.

Certain information contained herein may constitute forward-looking statements. Due to various risks and uncertainties, actual events, results or the performance of a fund may differ materially from those reflected or contemplated in such forward-looking statements. Clients should carefully consider the investment objectives, risks, charges, and expenses of a fund before investing.

Alternative investments involve complex tax structures, tax inefficient investing, and delays in distributing important tax information. Individual funds have specific risks related to their investment programs that will vary from fund to fund. Clients should consult their own tax and legal advisors as Morgan Stanley Wealth Management does not provide tax or legal advice.

Interests in alternative investment products are offered pursuant to the terms of the applicable offering memorandum, are distributed by Morgan Stanley Smith Barney LLC and certain of its affiliates, and (1) are not FDIC-insured, (2) are not deposits or other obligations of Morgan Stanley or any of its affiliates, (3) are not guaranteed by Morgan Stanley and its affiliates, and (4) involve investment risks, including possible loss of principal. Morgan Stanley Smith Barney LLC is a registered broker-dealer, not a bank.

THE GIC WEEKLY

Managed futures investments are speculative, involve a high degree of risk, use significant leverage, have limited liquidity and/or may be generally illiquid, may incur substantial charges, may subject investors to conflicts of interest, and are usually suitable only for the risk capital portion of an investor's portfolio. Before investing in any partnership and in order to make an informed decision, investors should read the applicable prospectus and/or offering documents carefully for additional information, including charges, expenses, and risks. Managed futures investments are not intended to replace equities or fixed income securities but rather may act as a complement to these asset categories in a diversified portfolio.

Investing in commodities entails significant risks. Commodity prices may be affected by a variety of factors at any time, including but not limited to, (i) changes in supply and demand relationships, (ii) governmental programs and policies, (iii) national and international political and economic events, war and terrorist events, (iv) changes in interest and exchange rates, (v) trading activities in commodities and related contracts, (vi) pestilence, technological change and weather, and (vii) the price volatility of a commodity. In addition, the commodities markets are subject to temporary distortions or other disruptions due to various factors, including lack of liquidity, participation of speculators and government intervention.

Physical precious metals are non-regulated products. Precious metals are speculative investments, which may experience short-term and long term price volatility. The value of precious metals investments may fluctuate and may appreciate or decline, depending on market conditions. If sold in a declining market, the price you receive may be less than your original investment. Unlike bonds and stocks, precious metals do not make interest or dividend payments. Therefore, precious metals may not be suitable for investors who require current income. Precious metals are commodities that should be safely stored, which may impose additional costs on the investor. The Securities Investor Protection Corporation ("SIPC") provides certain protection for customers' cash and securities in the event of a brokerage firm's bankruptcy, other financial difficulties, or if customers' assets are missing. SIPC insurance does not apply to precious metals or other commodities.

Bonds are subject to interest rate risk. When interest rates rise, bond prices fall; generally the longer a bond's maturity, the more sensitive it is to this risk. Bonds may also be subject to call risk, which is the risk that the issuer will redeem the debt at its option, fully or partially, before the scheduled maturity date. The market value of debt instruments may fluctuate, and proceeds from sales prior to maturity may be more or less than the amount originally invested or the maturity value due to changes in market conditions or changes in the credit quality of the issuer. Bonds are subject to the credit risk of the issuer. This is the risk that the issuer might be unable to make interest and/or principal payments on a timely basis. Bonds are also subject to reinvestment risk, which is the risk that principal and/or interest payments from a given investment may be reinvested at a lower interest rate.

Bonds rated below investment grade may have speculative characteristics and present significant risks beyond those of other securities, including greater credit risk and price volatility in the secondary market. Investors should be careful to consider these risks alongside their individual circumstances, objectives and risk tolerance before investing in high-yield bonds. High yield bonds should comprise only a limited portion of a balanced portfolio.

Interest on municipal bonds is generally exempt from federal income tax; however, some bonds may be subject to the alternative minimum tax (AMT). Typically, state tax-exemption applies if securities are issued within one's state of residence and, if applicable, local tax-exemption applies if securities are issued within one's city of residence.

Treasury Inflation Protection Securities' (TIPS) coupon payments and underlying principal are automatically increased to compensate for inflation by tracking the consumer price index (CPI). While the real rate of return is guaranteed, TIPS tend to offer a low return. Because the return of TIPS is linked to inflation, TIPS may significantly underperform versus conventional U.S. Treasuries in times of low inflation.

Ultrashort bond funds Ultra-short bond funds are mutual funds and exchange-traded funds that generally invest in fixed income securities with very short maturities, typically less than one year. They are not money market funds. While money market funds attempt to maintain a stable net asset value, an ultra-short bond fund's net asset value will fluctuate, which may result in the loss of the principal amount invested. They are therefore subject to the risks associated with debt securities such as credit and interest rate risk.

Ultrashort-term fixed income asset class is comprised of fixed income securities with high quality, very short maturities. They are therefore subject to the risks associated with debt securities such as credit and interest rate risk

The majority of \$25 and \$1000 par **preferred securities** are "callable" meaning that the issuer may retire the securities at specific prices and dates prior to maturity. Interest/dividend payments on certain preferred issues may be deferred by the issuer for periods of up to 5 to 10 years, depending on the particular issue. The investor would still have income tax liability even though payments would not have been received. Price quoted is per \$25 or \$1,000 share, unless otherwise specified. Current yield is calculated by multiplying the coupon by par value divided by the market price.

The initial interest rate on a **floating-rate security** may be lower than that of a fixed-rate security of the same maturity because investors expect to receive additional income due to future increases in the floating security's underlying reference rate. The reference rate could be an index or an interest rate. However, there can be no assurance that the reference rate will increase. Some floating-rate securities may be subject to call risk.

The market value of **convertible bonds** and the underlying common stock(s) will fluctuate and after purchase may be worth more or less than original cost. If sold prior to maturity, investors may receive more or less than their original purchase price or maturity value, depending on market conditions. Callable bonds may be redeemed by the issuer prior to maturity. Additional call features may exist that could affect yield.

Some \$25 or \$1000 par **preferred securities** are QDI (Qualified Dividend Income) eligible. Information on QDI eligibility is obtained from third party sources. The dividend income on QDI eligible preferreds qualifies for a reduced tax rate. Many traditional 'dividend paying' perpetual preferred securities (traditional preferreds with no maturity date) are QDI eligible. In order to qualify for the preferential tax treatment all qualifying preferred securities must be held by investors for a minimum period – 91 days during a 180 day window period, beginning 90 days before the ex-dividend date.

Principal is returned on a monthly basis over the life of a **mortgage-backed security**. Principal prepayment can significantly affect the monthly income stream and the maturity of any type of MBS, including standard MBS, CMOs and Lottery Bonds. Yields and average lives are estimated based on prepayment assumptions and are subject to change based on actual prepayment of the mortgages in the underlying pools. The level of predictability of an MBS/CMO's average life, and its market price, depends on the type of MBS/CMO class purchased and interest rate movements. In general, as interest rates fall, prepayment speeds are likely to increase, thus shortening the MBS/CMO's average life and likely causing its market price to rise. Conversely, as interest rates rise, prepayment speeds are likely to decrease, thus lengthening average life and likely causing the MBS/CMO's market price to fall. Some MBS/CMOs may have "original issue discount" (OID). OID occurs if the MBS/CMO's original issue price is

THE GIC WEEKLY

below its stated redemption price at maturity, and results in "imputed interest" that must be reported annually for tax purposes, resulting in a tax liability even though interest was not received. Investors are urged to consult their tax advisors for more information.

Asset-backed securities generally decrease in value as a result of interest rate increases, but may benefit less than other fixed-income securities from declining interest rates, principally because of prepayments.

Yields are subject to change with economic conditions. Yield is only one factor that should be considered when making an investment decision.

Equity securities may fluctuate in response to news on companies, industries, market conditions and general economic environment.

Companies paying **dividends** can reduce or cut payouts at any time.

Investing in smaller companies involves greater risks not associated with investing in more established companies, such as business risk, significant stock price fluctuations and illiquidity.

Stocks of medium-sized companies entail special risks, such as limited product lines, markets, and financial resources, and greater market volatility than securities of larger, more-established companies.

Value investing does not guarantee a profit or eliminate risk. Not all companies whose stocks are considered to be value stocks are able to turn their business around or successfully employ corrective strategies which would result in stock prices that do not rise as initially expected.

Growth investing does not guarantee a profit or eliminate risk. The stocks of these companies can have relatively high valuations. Because of these high valuations, an investment in a growth stock can be more risky than an investment in a company with more modest growth expectations.

Asset allocation and diversification do not assure a profit or protect against loss in declining financial markets.

Credit ratings are subject to change.

REITs investing risks are similar to those associated with direct investments in real estate: property value fluctuations, lack of liquidity, limited diversification and sensitivity to economic factors such as interest rate changes and market recessions.

Because of their narrow focus, **sector investments** tend to be more volatile than investments that diversify across many sectors and companies.

Technology stocks may be especially volatile. Risks applicable to companies in the **energy and natural resources** sectors include commodity pricing risk, supply and demand risk, depletion risk and exploration risk.

Rebalancing does not protect against a loss in declining financial markets. There may be a potential tax implication with a rebalancing strategy. Investors should consult with their tax advisor before implementing such a strategy.

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THE GIC WEEKLY

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