

THE  
MACRO  
SHOW



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## QUAD 4



2

## THE CYCLE



3

## REFLATION



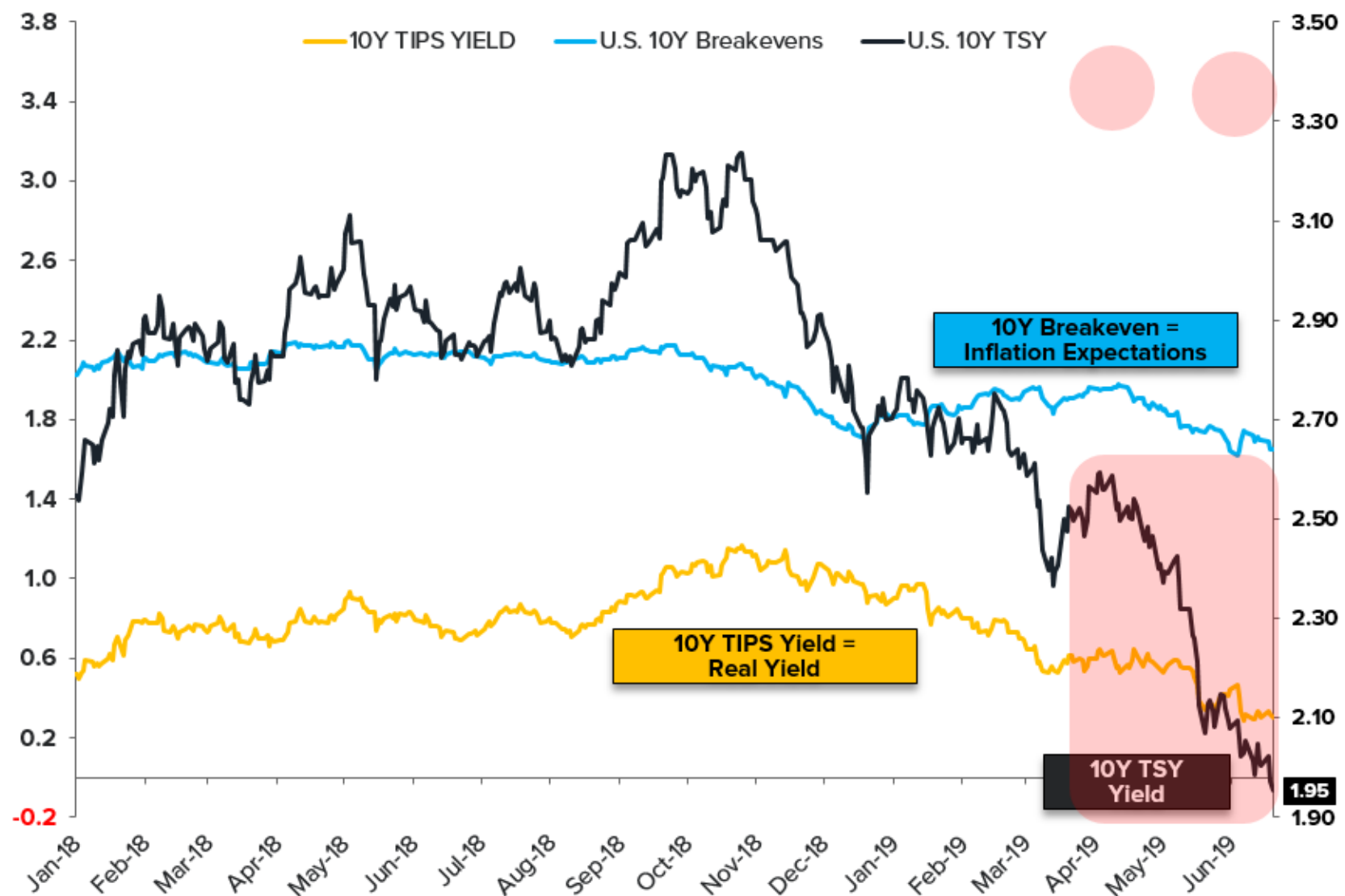


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## QUAD 4

Harmonized, global Quad 4 was back on full display yesterday with global yields making lower lows, Oil, Energy, Financials and reflation exposures down on a relative and absolute basis with Large Cap, Low Beta, Defensive yield outperforming and Utes (+1.4%), REIT's (+1.85%) and Gold (+60 bps) up big ... and bid again this morning. Trade Truce's and Tourist headlines remain the Tree, #TheCycle remains the forest.

# 10YR Yield: Decomposition



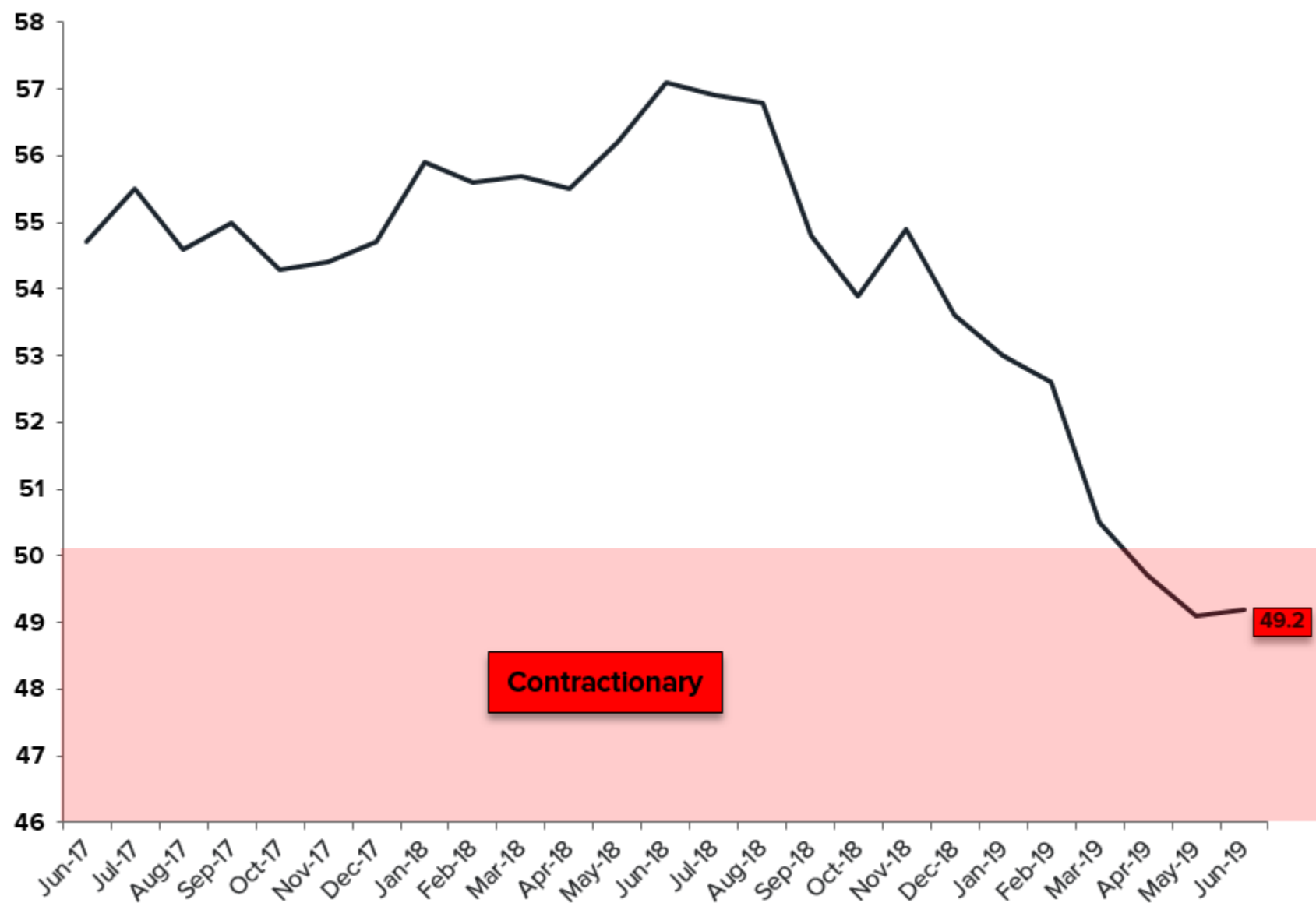




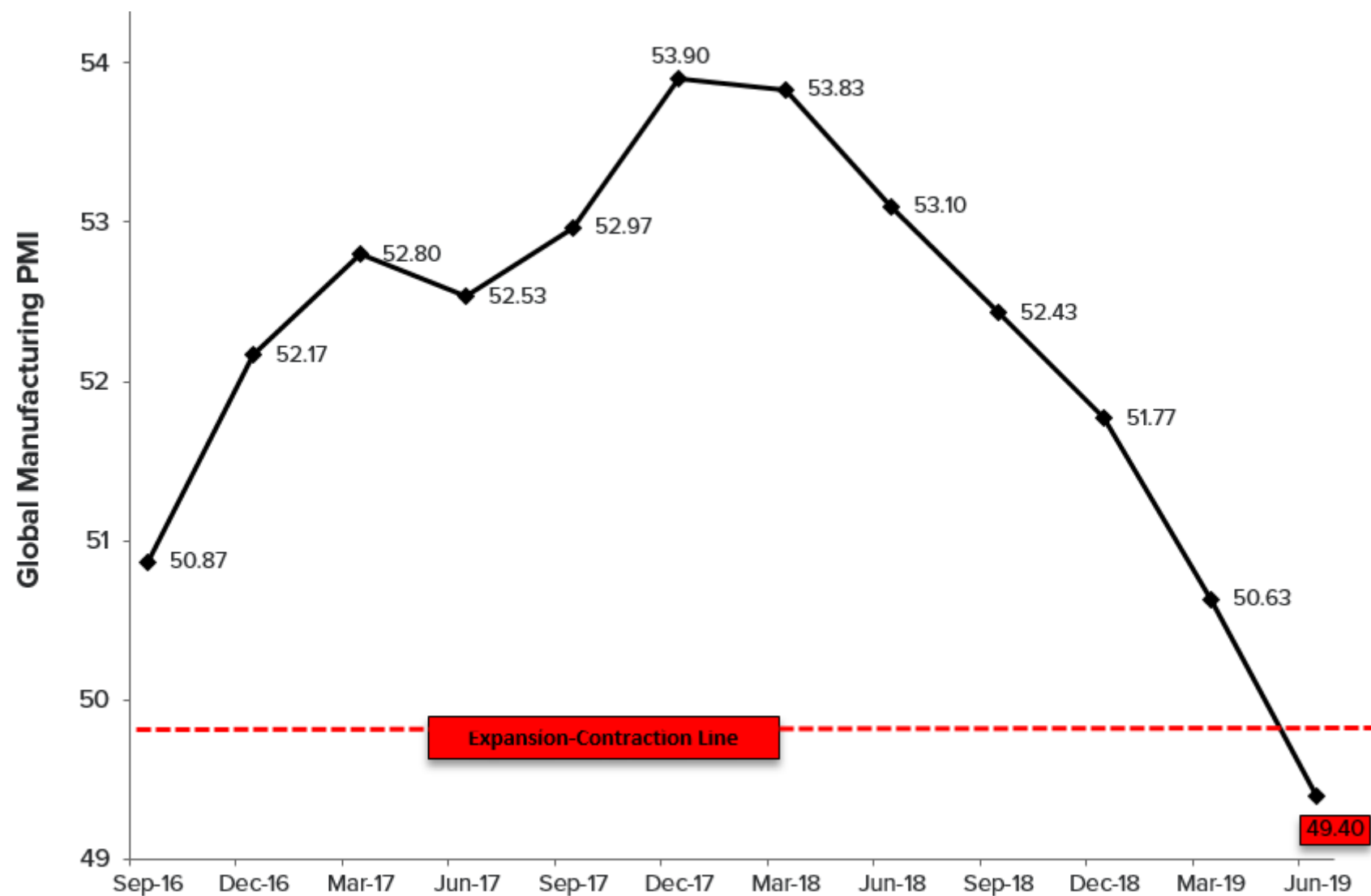
## 2 THE CYCLE

Canada, India and Singapore all join the global, contractionary PMI party in June as global cyclical activity continues to crater. More broadly, with U.S. ISM New Orders at a 42-month low, Eurozone manufacturing in contraction, the Global PMI moving further into contraction in June and global trade/export volumes primed for negative growth, global bond yields continue to snub equity exuberance. German 10YR yields down to a fresh ATL at -0.39% while peripheral yields continue to make lower and/or all-time lows.

# Canada Manufacturing PMI



# World Manufacturing PMI







# 3 REFLATION

Is that it? Inclusive of Trade Truce's and Dovish Policy Pivots, global reflation aspirations have remained thus far elusive. With global cyclical activity slow and slowing and Industrial Metals, Copper, Breakevens (inflation expectations) and nominal bond yields all lower again today, the steady drip of deceleration remains ongoing. U.S. 10YR Yields breaching 2% to the downside at 1.95% this morning ahead of the holiday and Friday's Employment report.

# Reflation



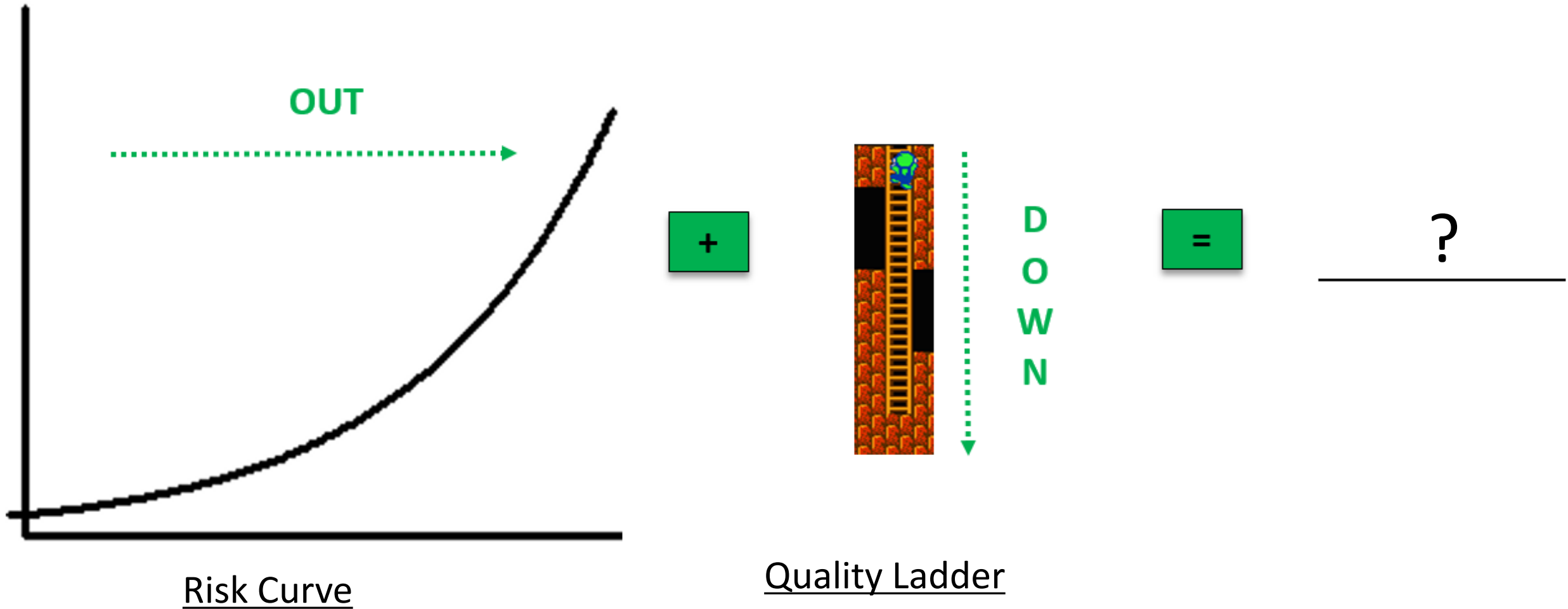




**CHRISTIAN DRAKE**

MACRO & HOUSING

# PRE-HOLIDAY MACRO Pictionary





# GLOBAL NIRP!



Source: Bloomberg

© Hedgeye Risk Management

# MACRO'S METAPHORICAL KNIFE'S EDGE



**Dovish Fed**

**Slowing Growth**

Equities



**Supply Cut**

**Slowing Growth**

Oil



# FED NOMINATIONS 2.0: DOVE 1 & DOVE 2



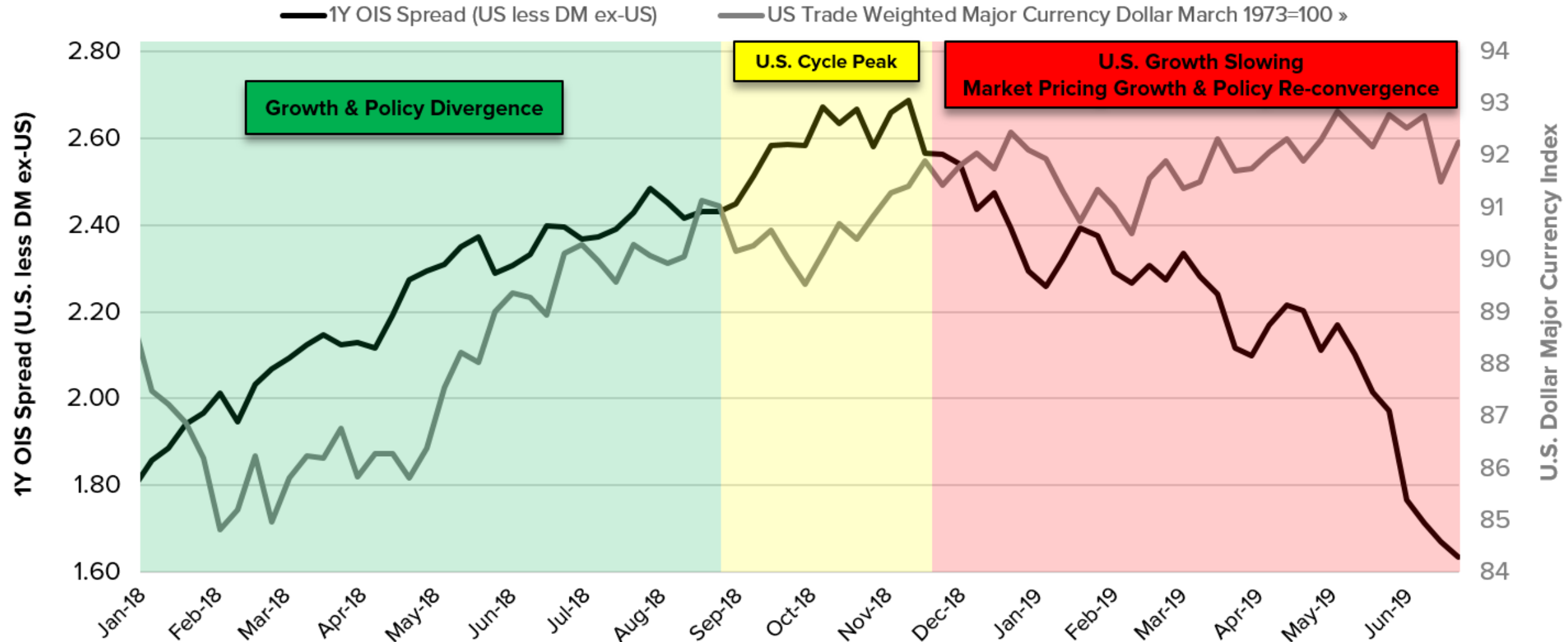
**Dove & Renowned Phillips Curve Detractor**



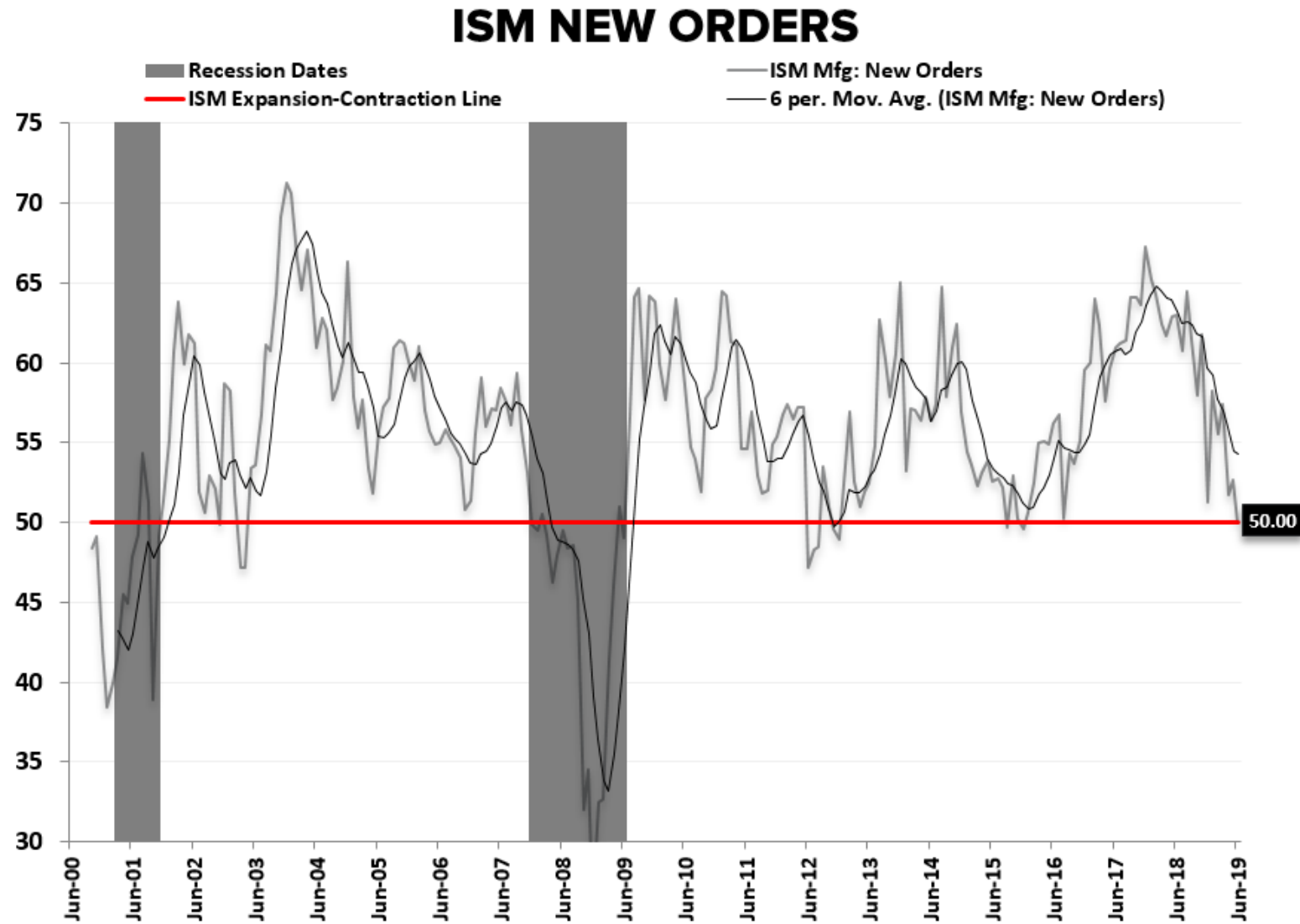
**Dove & Renowned Fed Detractor**

# THE SETUP: ON THE PRECIPICE OF POLICY RECONVERGENCE

#GLOBAL DIVERGENCES AND “AMERICAN EXCEPTIONALISM” DROVE THE 2018 GROWTH AND POLICY DIVERGENCE THAT SUPPORTED THE \$USD. FOLLOWING THE DOMESTIC CYCLE PEAK, THE MARKET HAS BEGUN TO PRICE POLICY RECONVERGENCE – A REALITY THAT SHOULD IMPACT THE DOLLAR AS WE MOVE PAST (GLOBAL & LOCAL) QUAD 4.



# ISM = 42 MONTH LOWS

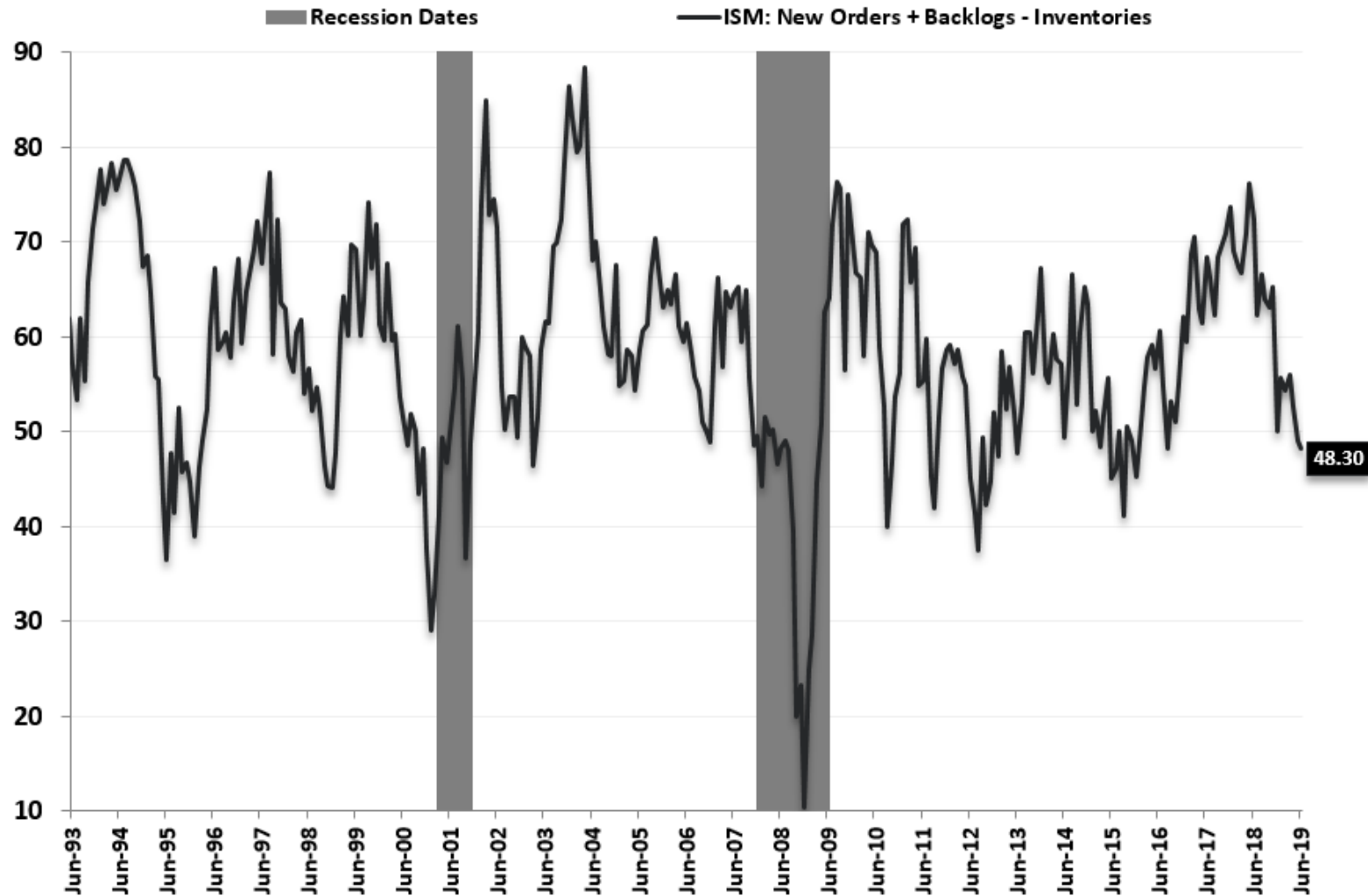


DATA SOURCE: BLOOMBERG, ISM



# FUTURE ACTIVITY = ↓

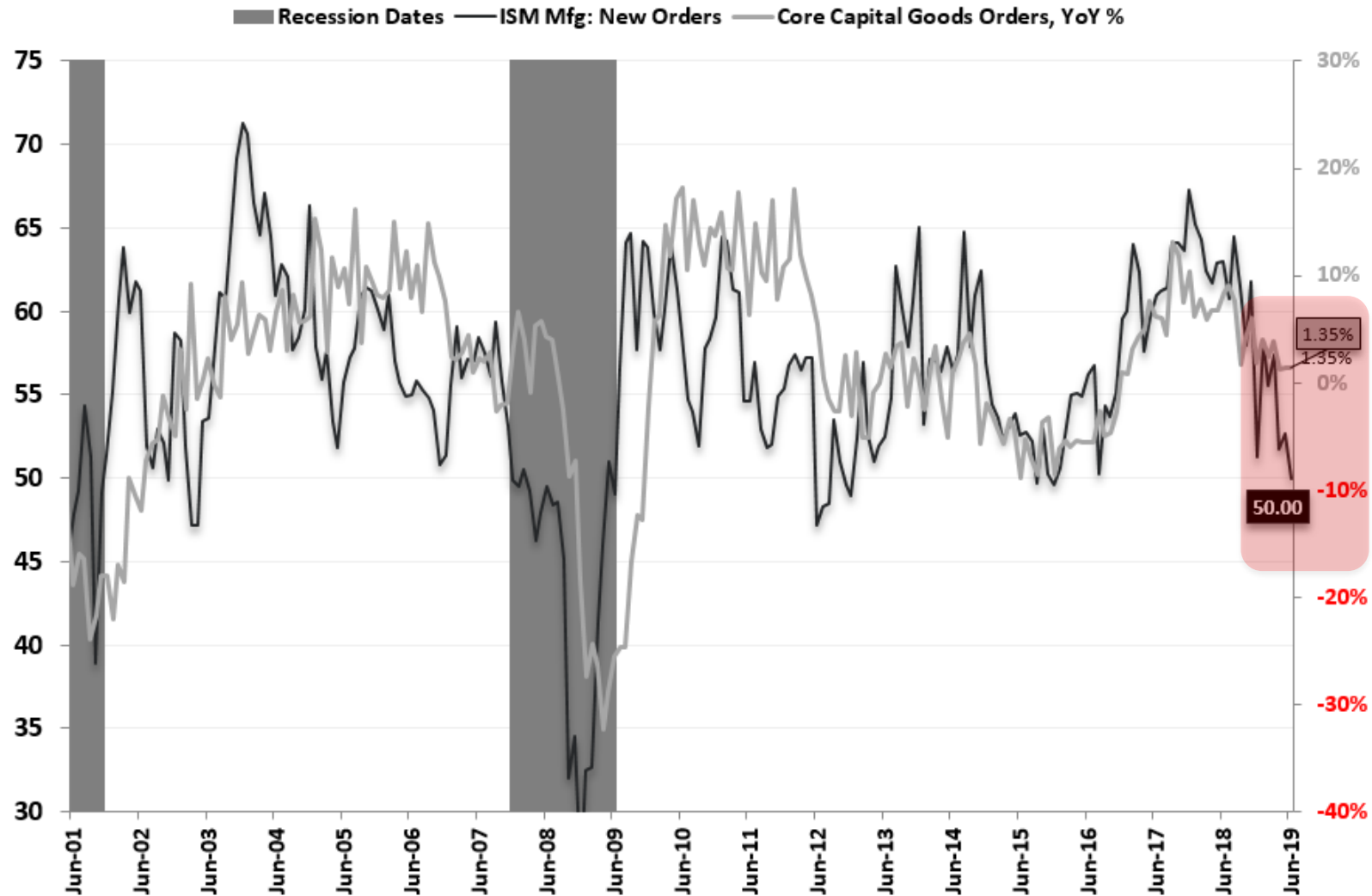
## ISM: Activity Pipeline



DATA SOURCE: BLOOMBERG, ISM

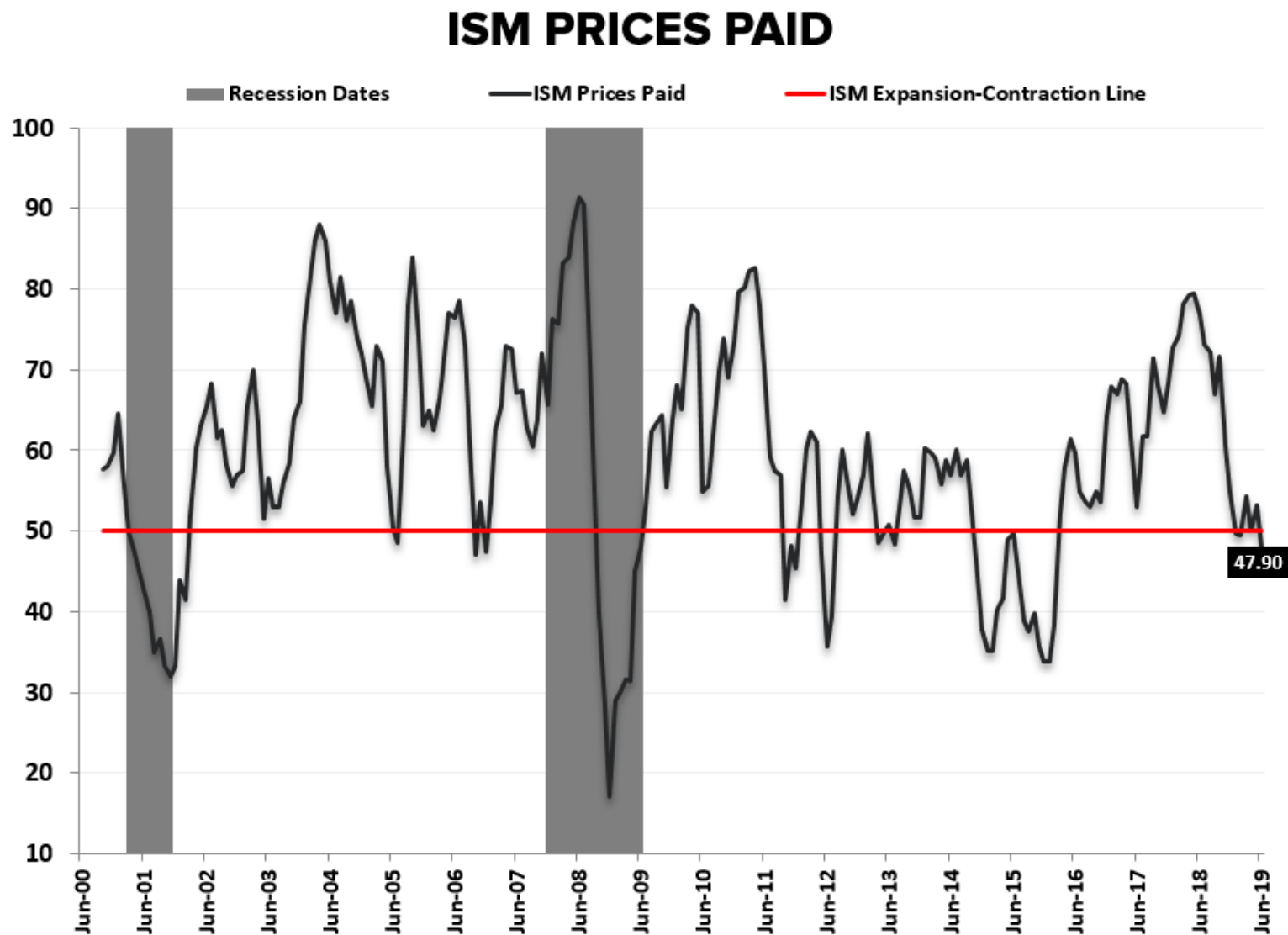
# CAPEX → MORE DOWNSIDE?

ISM NEW ORDERS vs CORE CAPITAL GOODS ORDERS, Y/Y %



DATA SOURCE: BLOOMBERG, ISM

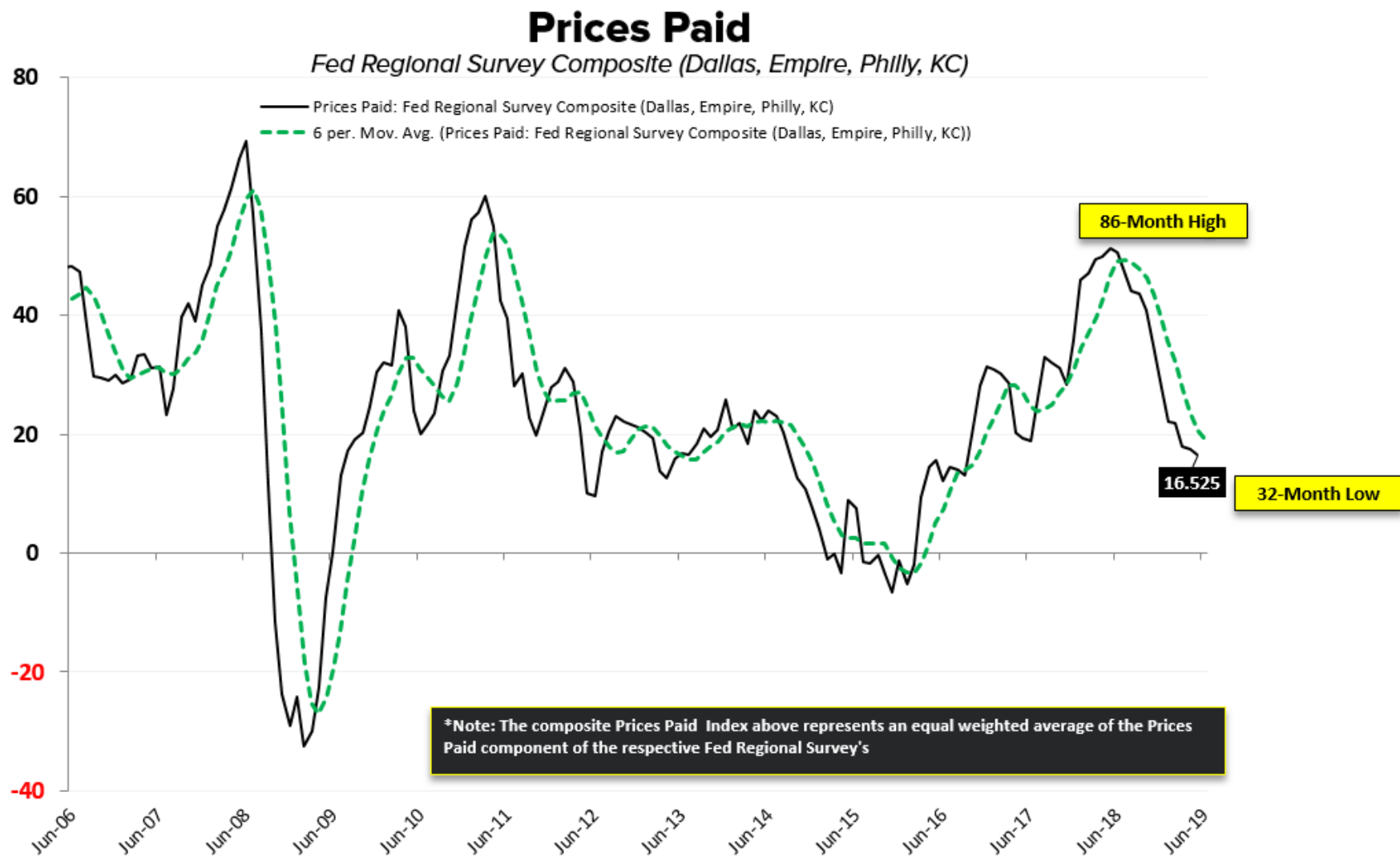
# PRICES PAID = QUAD 4



DATA SOURCE: BLOOMBERG, ISM, HEDGEYE

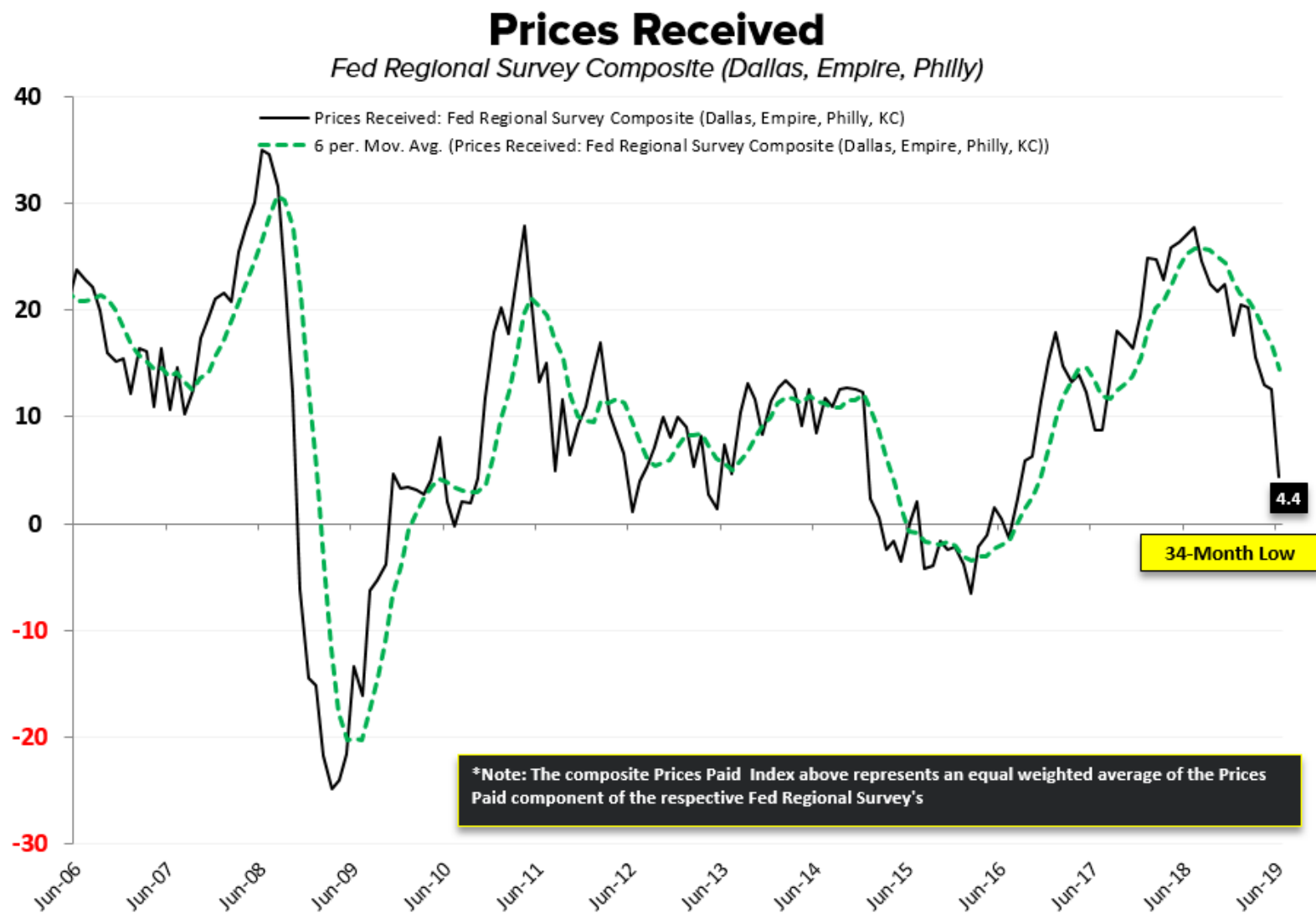


# PRICES PAID = QUAD 4



Source: Bloomberg, Regional Fed Surveys, HEDGEYE

# PRICE RECEIVED = QUAD 4



Source: Bloomberg, Regional Fed Surveys, HEDGEYE

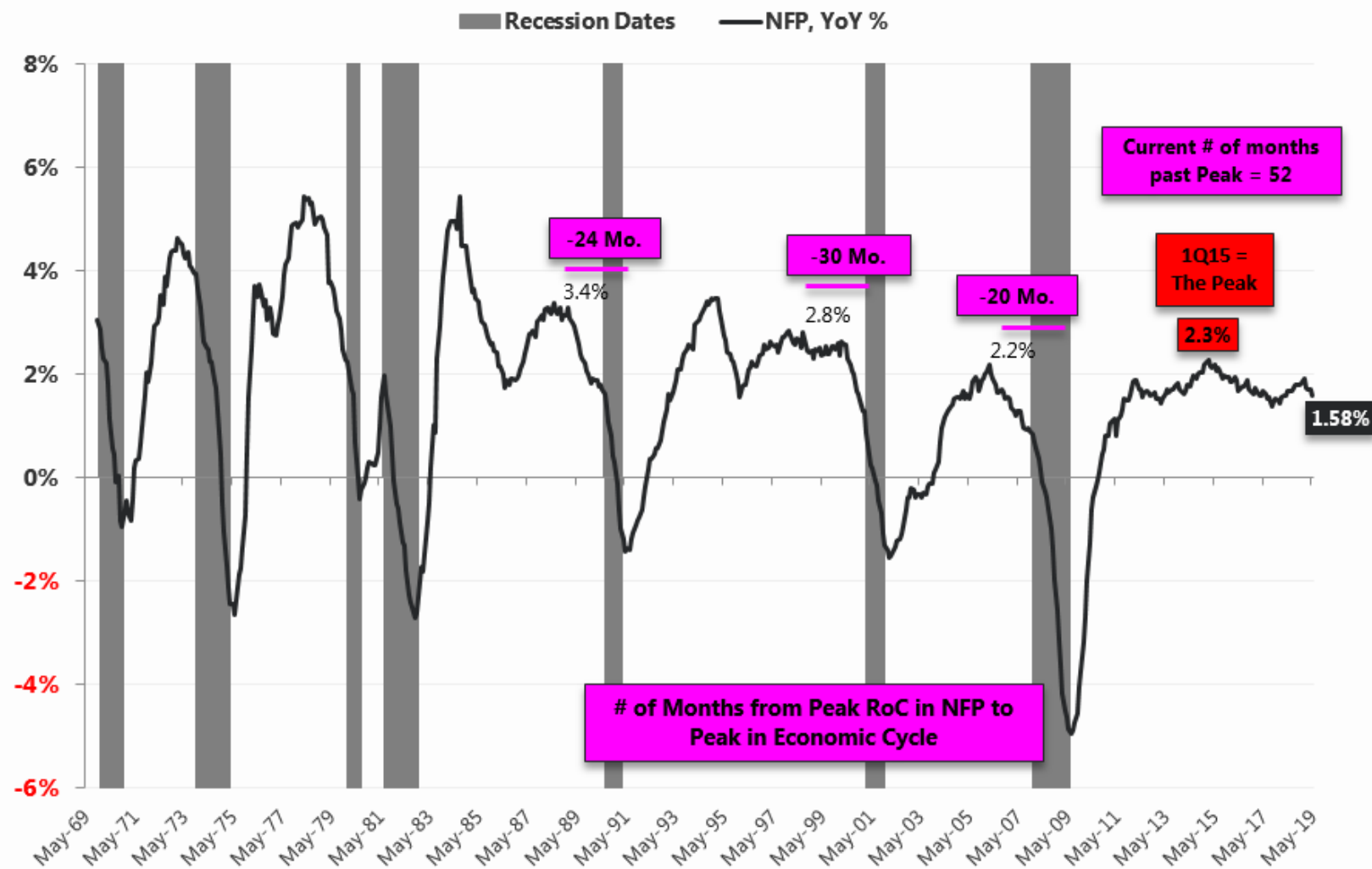
# PRICES PAID > PRICES RECEIVED = MARGINS ↓





# PAYROLL GROWTH = ↓

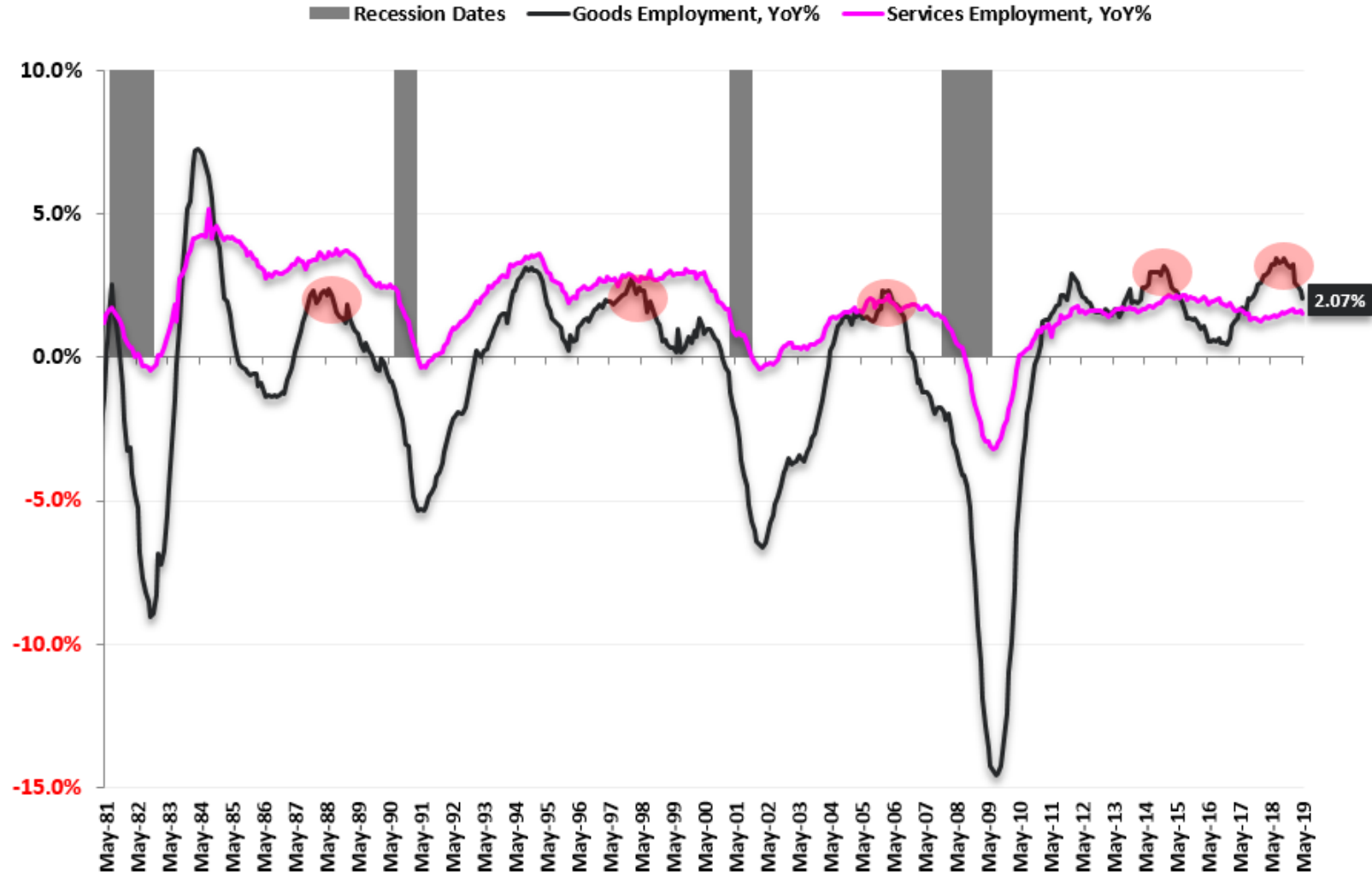
## NONFARM PAYROLL GROWTH, YOY



DATA SOURCE: BLOOMBERG, NBER, BLS, HRM

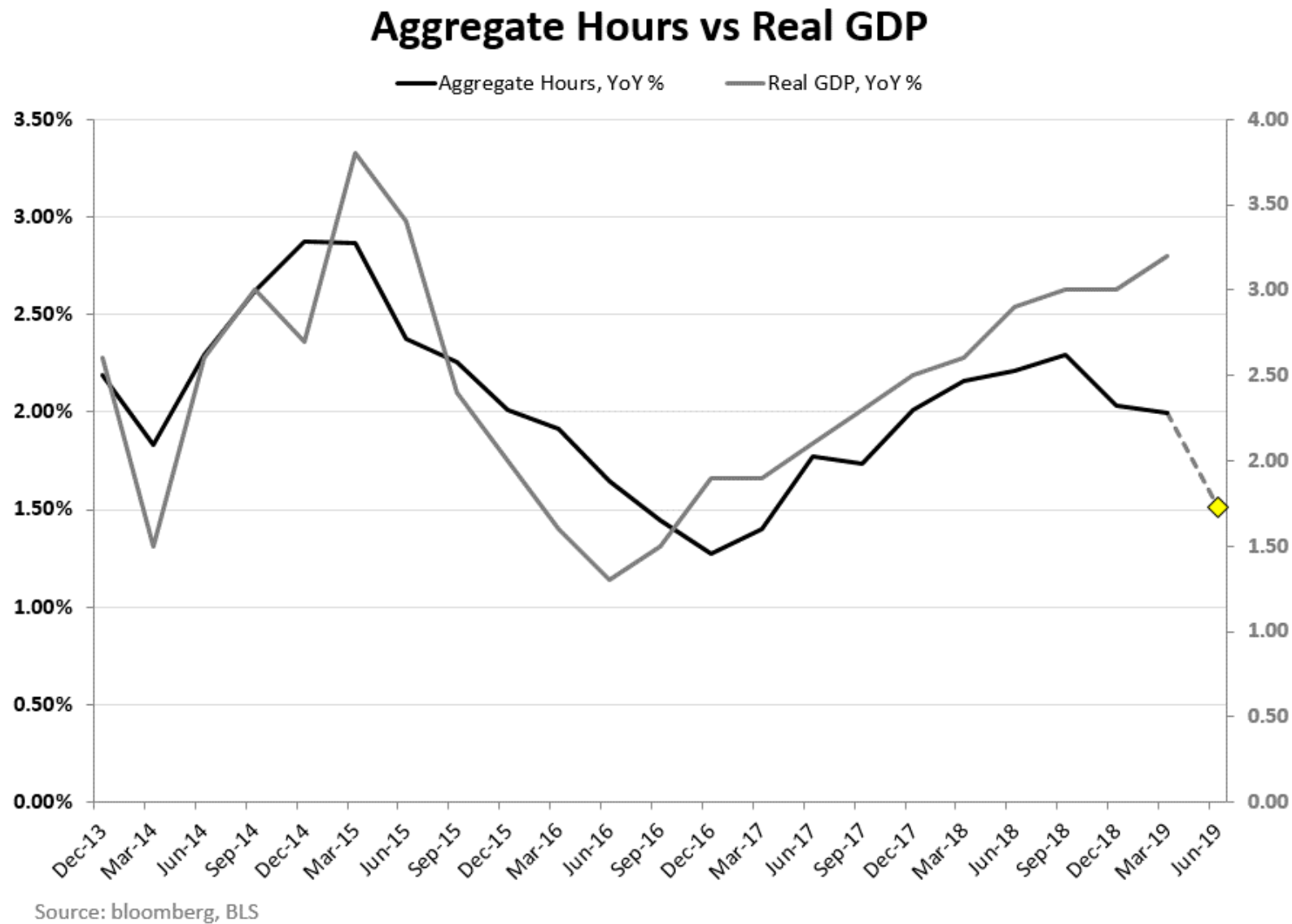
# CYCLICAL EMPLOYMENT = ↓

## NFP: Goods vs Services Employment



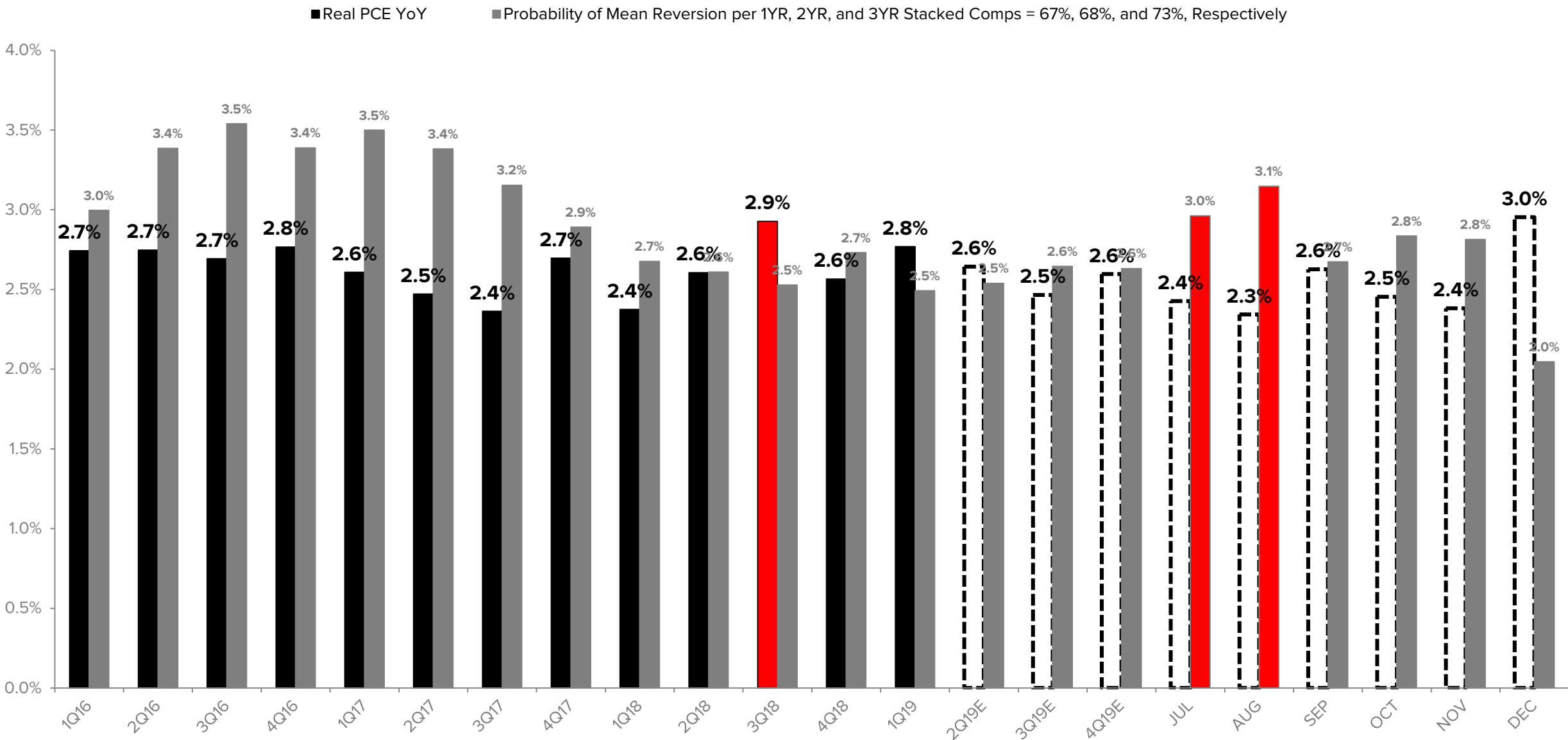
DATA SOURCE: BLOOMBERG, BEA, BLS, HEDGEYE

# AGGREGATE HOURS = ↓

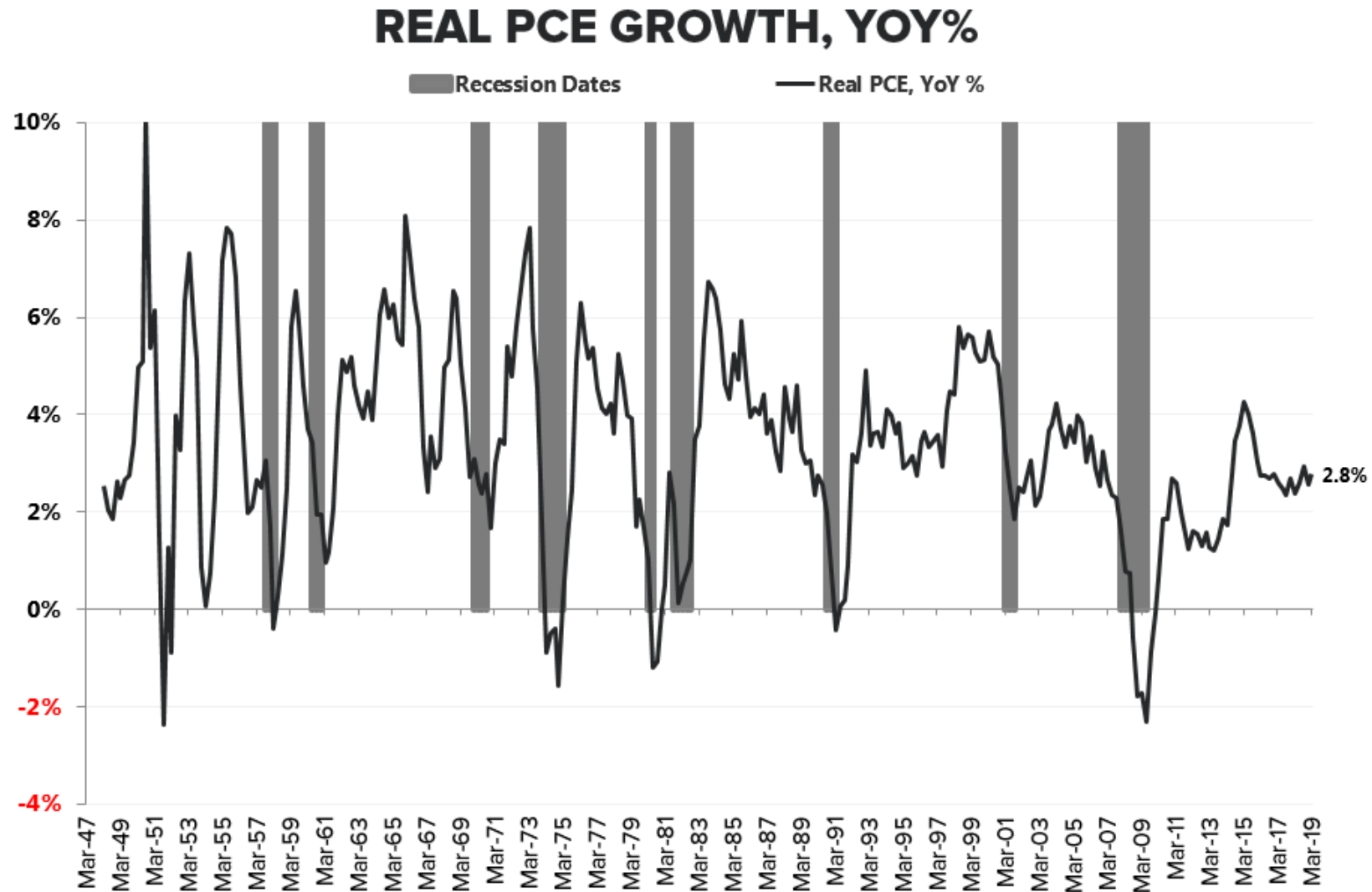




# REAL PCE: STEADY AS SHE GOES

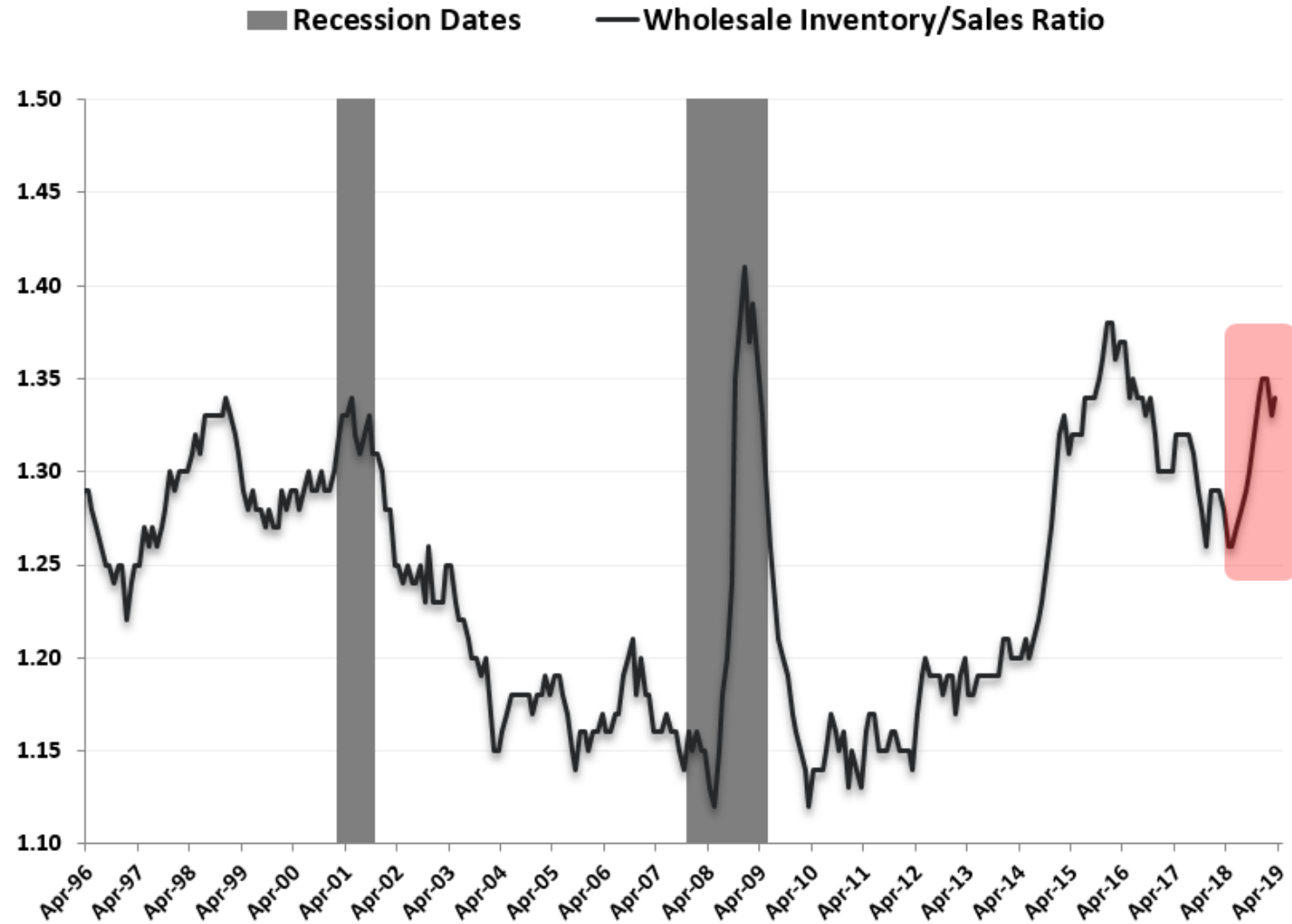


# CONSUMPTION → YOU DON'T NEED NEGATIVE



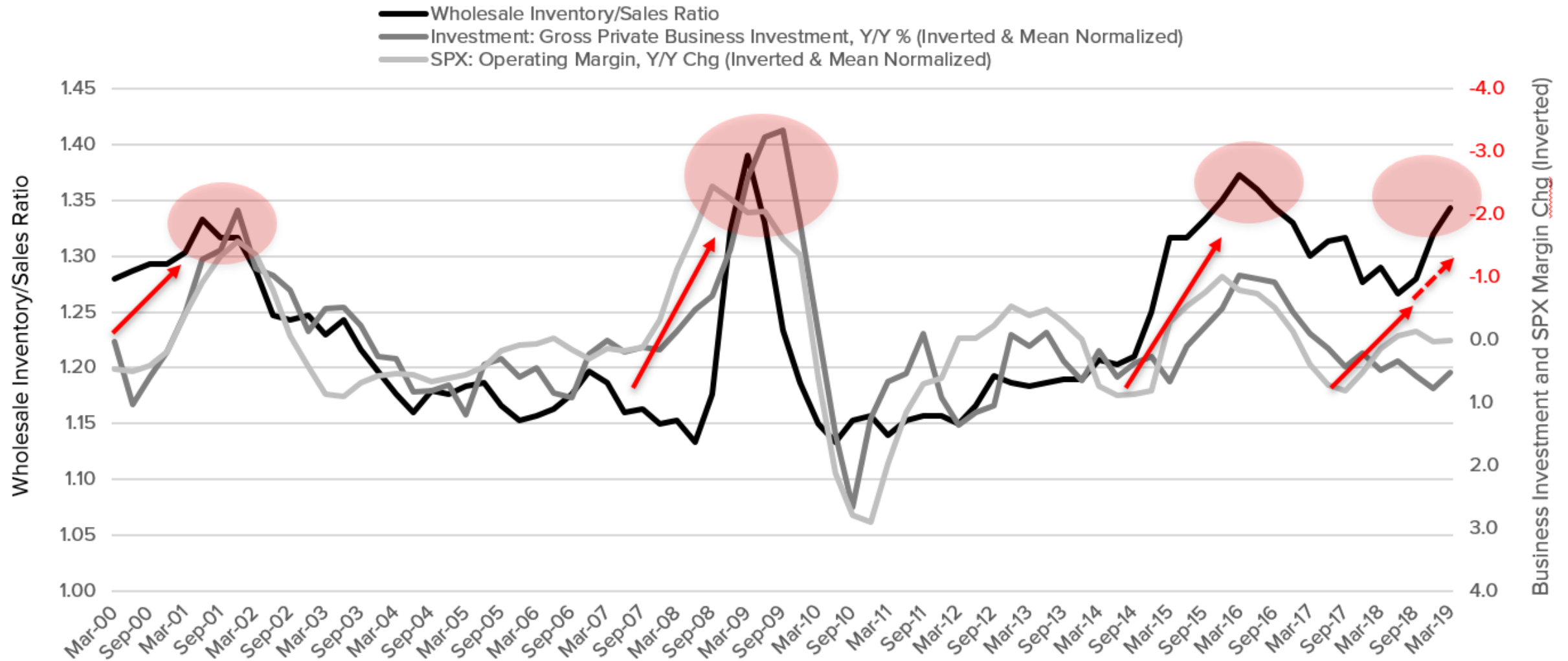
DATA SOURCE: BLOOMBERG, NBER, BEA, HRM

# THE INVENTORY OVERHANG



# INVENTORY OVERHANG = INVESTMENT ↓ & MARGINS ↓

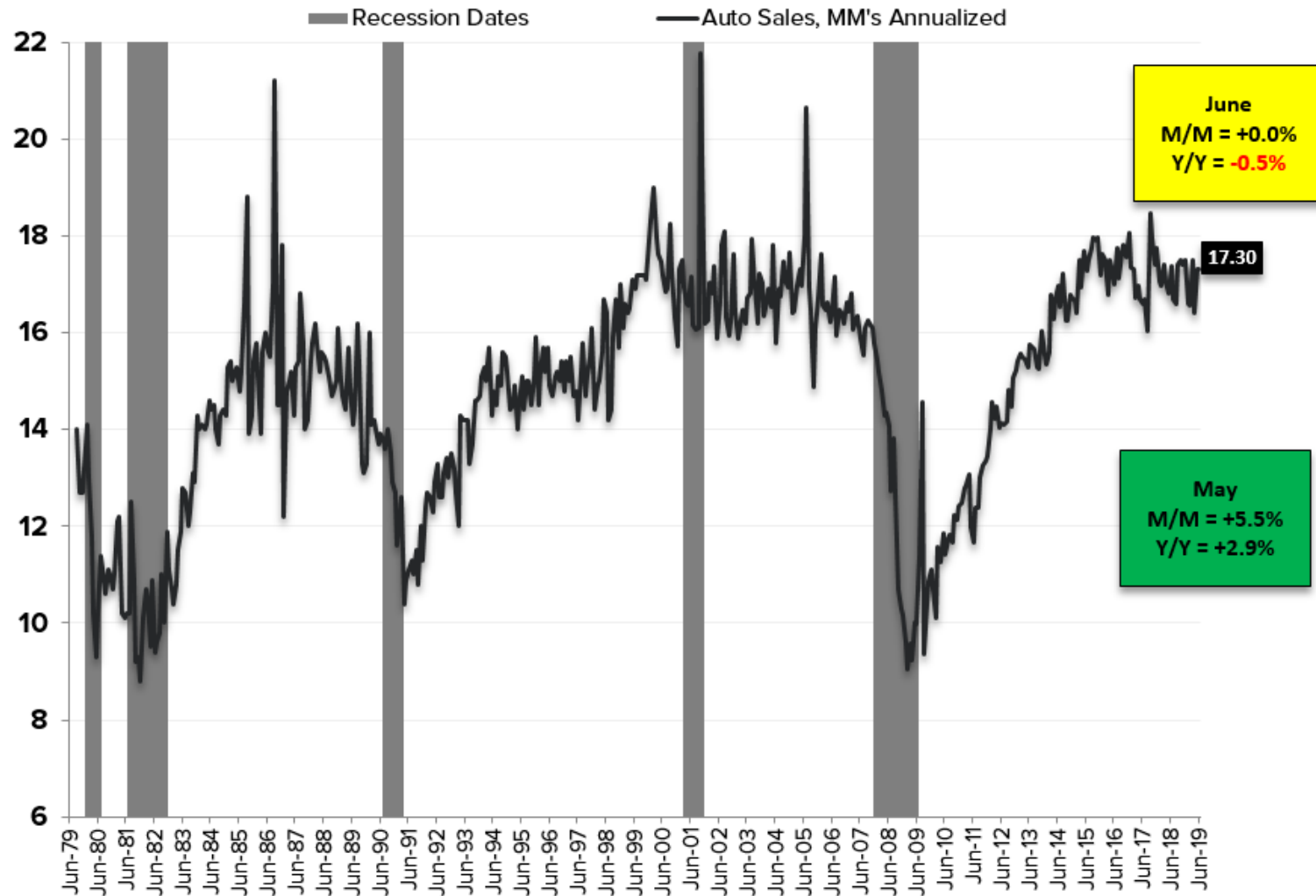
SLOWING GROWTH AND TARIFF FRONT-RUNNING HAVE DRIVEN INVENTORIES HIGHER AND INVENTORY-TO-SALES RATIO'S TO RECESSIONARY LEVELS. THE INVENTORY OVERHANG INVARIABLY DRAGS BUSINESS INVESTMENT AND MARGINS LOWER.



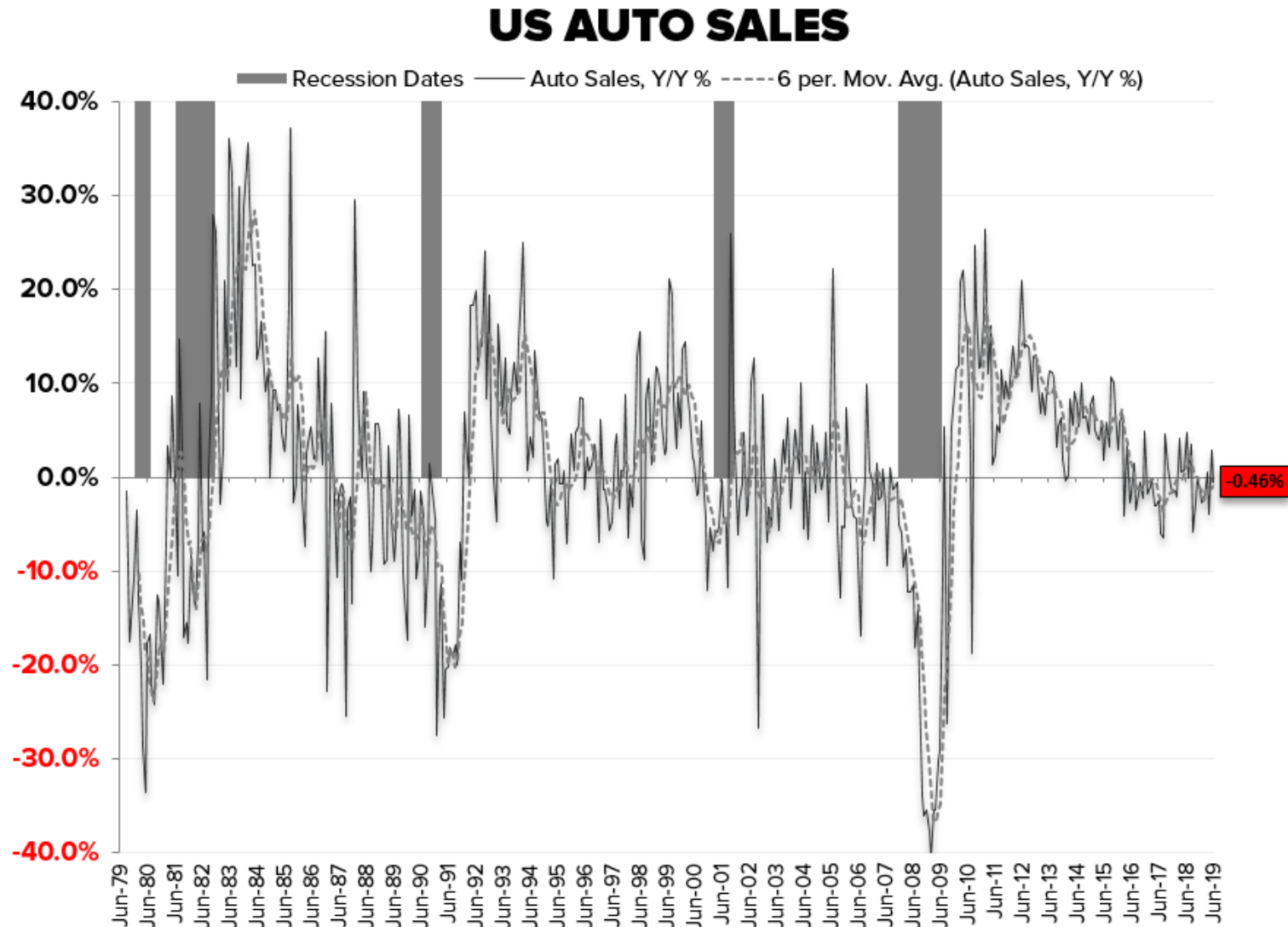


**AUTO'S = Y/Y ↓**

## US AUTO SALES

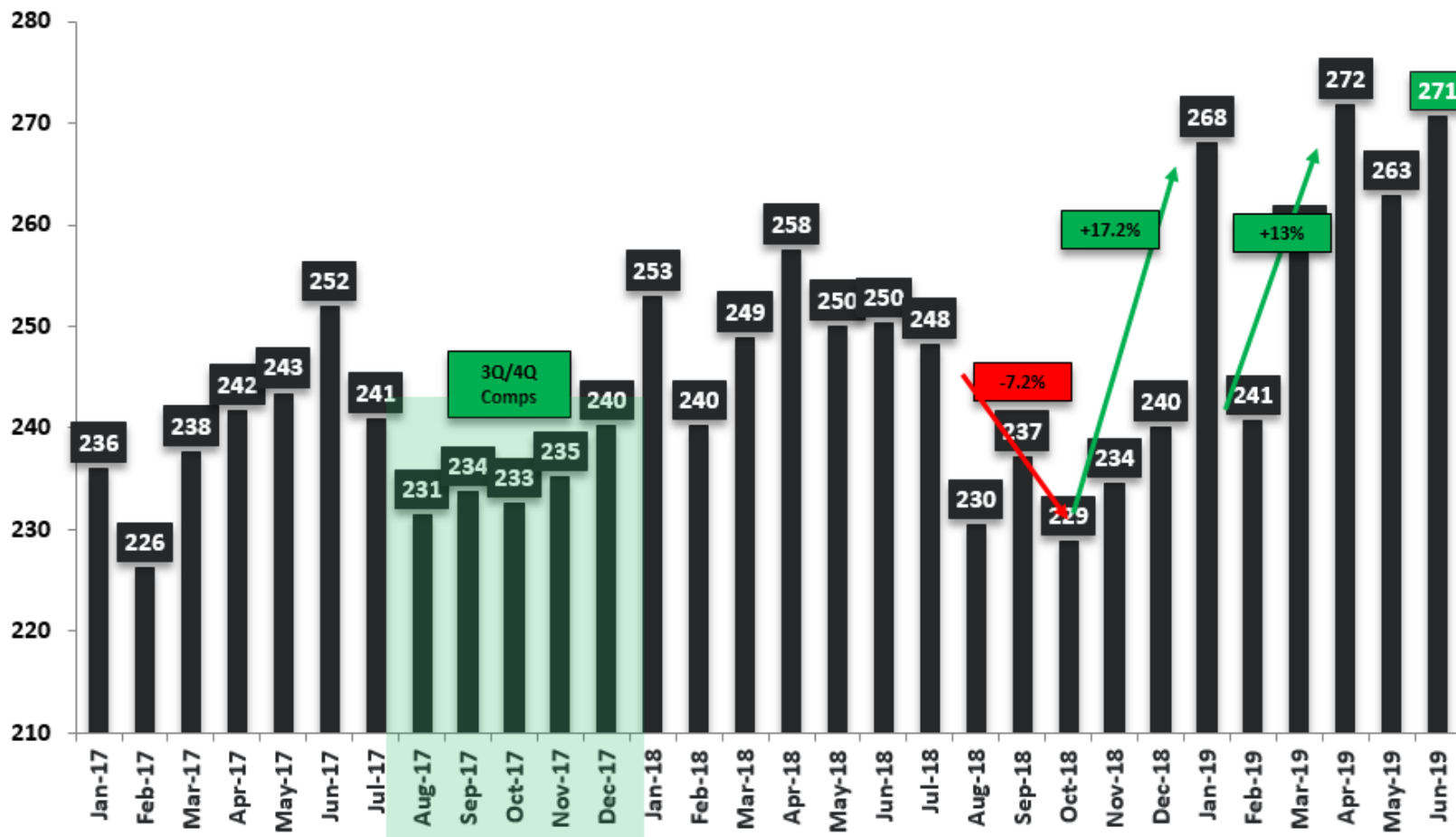


# AUTO'S → NOT A CYCLE INDICATOR



# PURCHASE APPS = CYCLE HIGHS

MBA Mortgage Purchase Applications  
Monthly



Source: Bloomberg, MBA, HEDGEYE

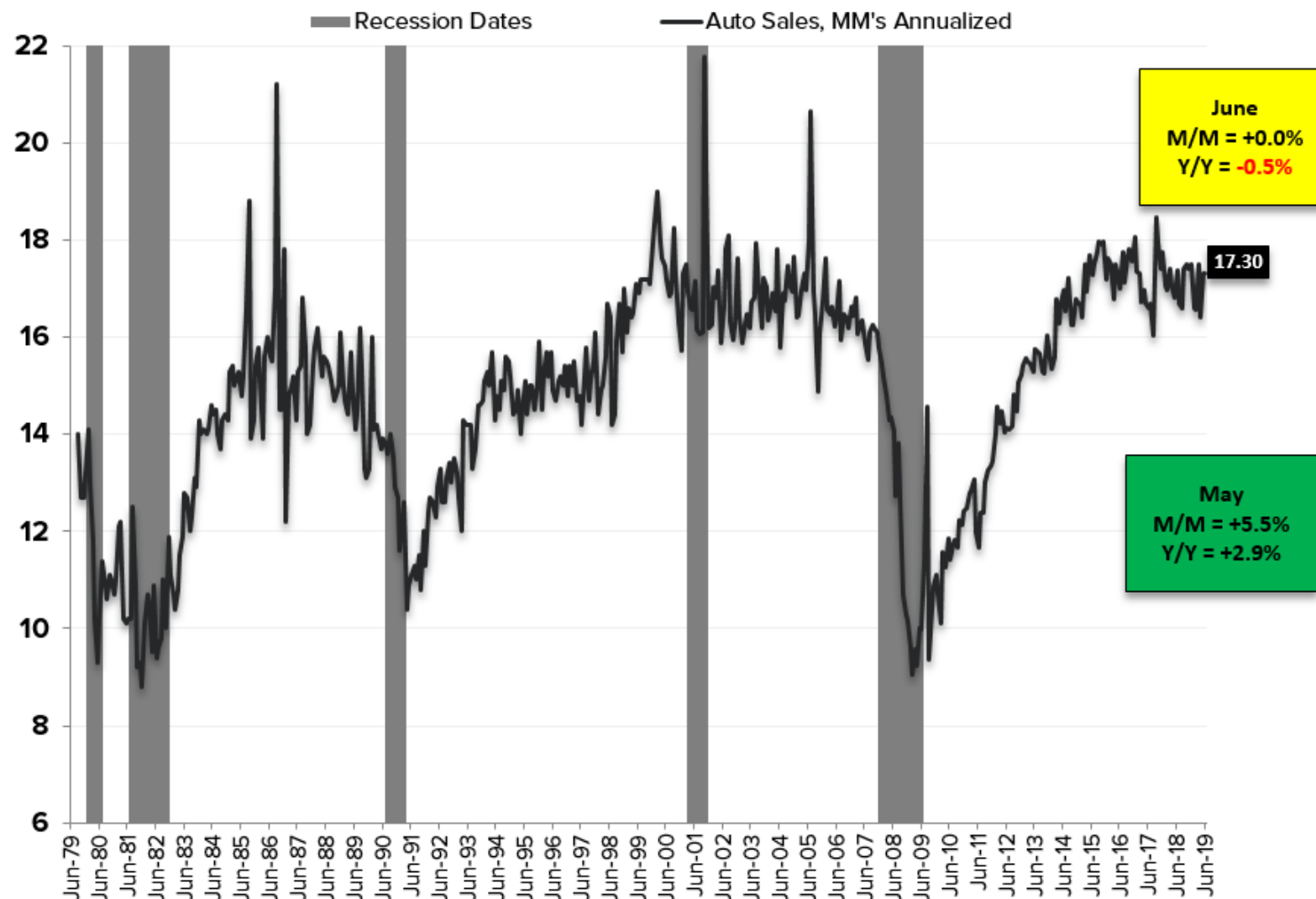
**MACRO GRIND**



# S&P 500 Earnings Update

Source	Equity Index	Name	SPX	Range	Current Season	Periodicity	Quarter
S&P 500 INDEX		Range CQ2 Ending: 5/16/2019 - 8/15/2019					
1) Surprise		2) Growth					
Sector (GICS)	Reported	Sales Growth			Earnings Growth		
11) All Securities	18 / 497	1.56%			-18.34%		
12) > Energy	0 / 29						
13) > Materials	0 / 26						
14) > Industrials	2 / 68	3.38%			-13.78%		
15) > Consumer Discretionary	5 / 61	6.21%			-7.97%		
16) > Consumer Staples	5 / 32	2.75%			-7.50%		
17) > Health Care	0 / 62						
18) > Financials	0 / 68						
19) > Information Technology	6 / 68	-4.71%			-24.65%		
20) > Communication Services	0 / 22						
21) > Utilities	0 / 28						
22) > Real Estate	0 / 32						

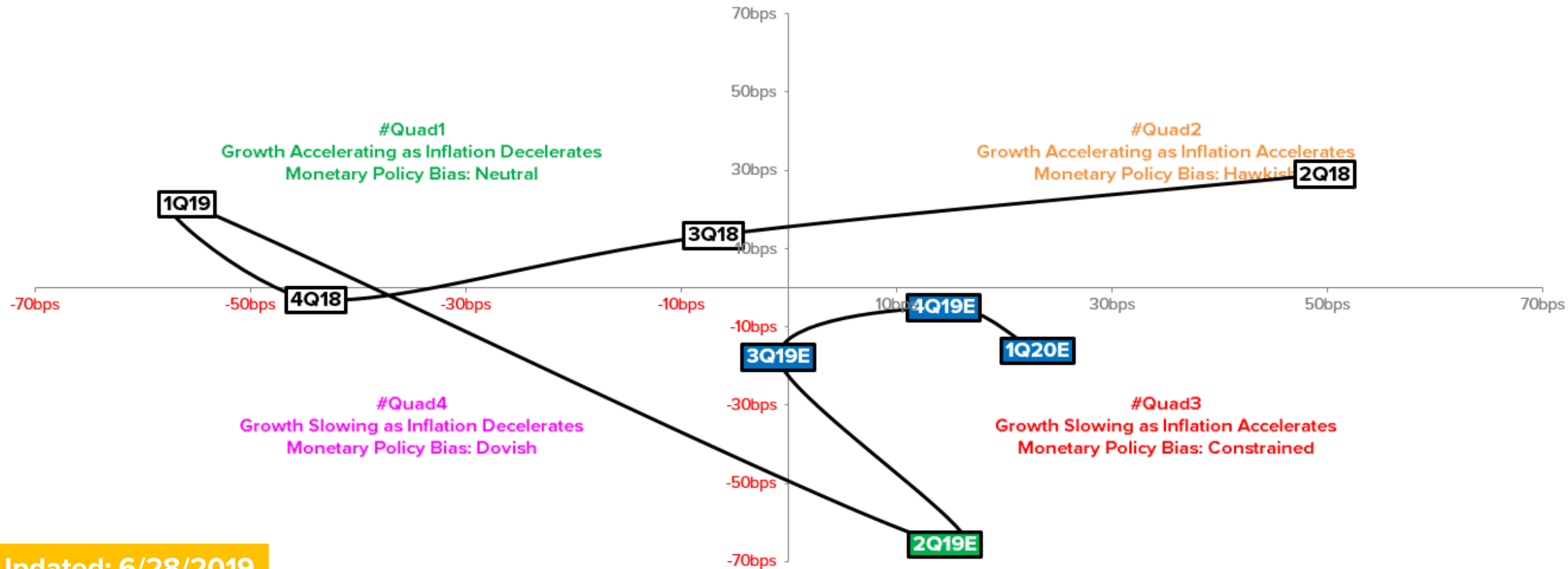
# U.S. Auto Sales



United States	2Q16	3Q16	4Q16	1Q17	2Q17	3Q17	4Q17	1Q18	2Q18	3Q18	4Q18	1Q19	← Actuals   Estimates →	2Q19E	3Q19E	4Q19E	1Q20E
Real GDP QoQ SAAR	2.30%	1.90%	1.80%	1.80%	3.00%	2.80%	2.30%	2.20%	4.20%	3.40%	2.20%	3.10%	Hedgeye Estimates	1.53%	2.61%	1.95%	2.40%
YoY Hurdle Rate	3.30%	1.00%	0.40%	1.50%	2.30%	1.90%	1.80%	1.80%	3.00%	2.80%	2.30%	2.20%	YoY Hurdle Rate	4.20%	3.40%	2.20%	3.10%
Real GDP YoY	1.30%	1.54%	1.88%	1.94%	2.11%	2.34%	2.47%	2.58%	2.87%	3.00%	2.97%	3.18%	Hedgeye Estimates	2.53%	2.35%	2.30%	2.14%
2Y Comparative Base Effect	2.99%	2.71%	2.35%	2.68%	2.33%	1.96%	1.94%	1.75%	1.71%	1.94%	2.18%	2.26%	2Y Comparative Base Effect	2.49%	2.67%	2.72%	2.88%
Headline CPI YoY	1.05%	1.12%	1.80%	2.54%	1.90%	1.97%	2.12%	2.21%	2.71%	2.64%	2.20%	1.64%	Headline CPI YoY	1.79%	1.78%	1.92%	2.16%
2Y Comparative Base Effect	1.01%	0.95%	0.86%	0.51%	0.50%	0.61%	1.13%	1.81%	1.48%	1.54%	1.96%	2.38%	2Y Comparative Base Effect	2.31%	2.30%	2.16%	1.93%

## United States

◆ x-axis: First Difference of YoY Headline CPI;  
y-axis: First Difference of YoY Real GDP



Updated: 6/28/2019

Data Source: Bloomberg. Green box = Hedgeye Predictive Tracking Algorithm nowcasts. Blue boxes = Hedgeye Comparative Base Effect Model estimates.

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# Our Risk Management Overlay is Rules-Based

## #QUAD1

- Maximum gross exposure, wide net exposure. Growth investing bias.
- **Asset Class Overweight(s):** Equities and Credit
- **Asset Class Underweight(s):** Fixed Income
- **Equity Sector Overweight(s):** Tech, Consumer Discretionary, Industrials, and Health Care
- **Equity Sector Underweight(s):** Utilities, Consumer Staples, Energy, and REITS
- **Equity Style Factor Overweight(s):** High Beta, Momentum, and Growth
- **Equity Style Factor Underweight(s):** Low Beta/Minimum Vol., High Dividend Yield, and Value
- **Fixed Income Overweight(s):** Convertibles, High Yield Credit, Leveraged Loans, and High Yield Munis,
- **Fixed Income Underweight(s):** TIPS, Long Duration Treasuries, and Short Duration Treasuries

## #QUAD2

- Maximum gross exposure, wide net exposure. Inflation-hedging bias.
- **Asset Class Overweight(s):** Equities and Credit
- **Asset Class Underweight(s):** Fixed Income
- **Equity Sector Overweight(s):** Tech, Industrials and Consumer Discretionary
- **Equity Sector Underweight(s):** Communication Services\*, Utilities, REITS, and Consumer Staples
- **Equity Style Factor Overweight(s):** Momentum, Growth, and Small Caps
- **Equity Style Factor Underweight(s):** Low Beta/Minimum Vol., Value, and High Dividend Yield
- **Fixed Income Overweight(s):** Convertibles, Leveraged Loans, High Yield Credit, and TIPS
- **Fixed Income Underweight(s):** Long Duration Treasuries, Munis, and Investment Grade Credit

## #QUAD3

- Middling gross exposure, tight net exposure. Defensive, yield-chasing bias.
- **Asset Class Overweight(s):** Fixed Income
- **Asset Class Underweight(s):** Equities and Credit
- **Equity Sector Overweight(s):** Utilities, Tech, Energy, and REITS
- **Equity Sector Underweight(s):** Financials, Materials, Communication Services\*, and Consumer Staples
- **Equity Style Factor Overweight(s):** Low Beta/Minimum Vol., Growth, and Quality
- **Equity Style Factor Underweight(s):** High Dividend Yield, Value, and Small Caps
- **Fixed Income Overweight(s):** Long Duration Treasuries, Taxable Munis, and TIPS
- **Fixed Income Underweight(s):** Convertibles, Leveraged Loans, and High Yield Credit

## #QUAD4

- Minimum gross exposure, net short exposure. Deflation-hedging bias.
- **Asset Class Overweight(s):** Fixed Income
- **Asset Class Underweight(s):** Equities and Credit
- **Equity Sector Overweight(s):** Consumer Staples, Health Care, REITS, and Utilities
- **Equity Sector Underweight(s):** Tech, Energy, Industrials, and Financials
- **Equity Style Factor Overweight(s):** High Dividend Yield, Low Beta/Minimum Vol. and Quality
- **Equity Style Factor Underweight(s):** Momentum, High Beta, and Growth
- **Fixed Income Overweight(s):** Long Duration Treasuries, Taxable Munis, and MBS
- **Fixed Income Underweight(s):** Convertibles, TIPS, Leveraged Loans, and High Yield Credit



# Sector Performance

<u>SECTOR</u>	<u>Ticker</u>	<u>Price</u>	<u>1-Day %</u> <u>Chg</u>	<u>MTD %</u> <u>Chg</u>	<u>QTD %</u> <u>Chg</u>	<u>YTD %</u> <u>Chg</u>
Consumer Discretionary	XLY	\$120.51	0.22%	1.10%	1.10%	21.71%
Financial Select Sector	XLF	\$27.86	-0.25%	0.94%	0.94%	16.96%
Health Care Select Sector	XLV	\$93.60	0.54%	1.04%	1.04%	8.20%
Technology Select Sector	XLK	\$79.49	0.26%	1.86%	1.86%	28.25%
Consumer Staples Select Sector	XLP	\$58.93	0.87%	1.48%	1.48%	16.05%
Industrial Select Sector	XLI	\$77.39	-0.13%	-0.04%	-0.04%	20.15%
Materials Select Sector	XLB	\$58.89	-0.10%	0.67%	0.67%	16.57%
The Energy Select Sector	XLE	\$62.75	-1.60%	-1.51%	-1.51%	9.42%
Utilities Select Sector	XLU	\$60.29	1.36%	1.11%	1.11%	13.93%
Real Estate Select Sector	XLRE	\$37.38	1.85%	1.66%	1.66%	20.58%
Communications Services Sector	XLC	\$50.08	0.93%	1.75%	1.75%	21.32%
S&P 500	SPX	2,973.01	0.29%	1.06%	1.06%	18.60%

# Sector Relative Performance

	<u>Ticker</u>	<u>Price</u>	<u>1-Day %</u> <u>Chg</u>	<u>MTD %</u> <u>Chg</u>	<u>QTD %</u> <u>Chg</u>	<u>YTD %</u> <u>Chg</u>
Consumer Discretionary	XLY	\$120.51	-0.08%	0.04%	0.04%	3.12%
Financial Select Sector	XLF	\$27.86	-0.54%	-0.12%	-0.12%	-1.63%
Health Care Select Sector	XLV	\$93.60	0.24%	-0.03%	-0.03%	-10.40%
Technology Select Sector	XLK	\$79.49	-0.03%	0.80%	0.80%	9.66%
Consumer Staples Select Sector	XLP	\$58.93	0.58%	0.42%	0.42%	-2.55%
Industrial Select Sector	XLI	\$77.39	-0.42%	-1.10%	-1.10%	1.56%
Materials Select Sector	XLB	\$58.89	-0.39%	-0.40%	-0.40%	-2.03%
The Energy Select Sector	XLE	\$62.75	-1.89%	-2.57%	-2.57%	-9.18%
Utilities Select Sector	XLU	\$60.29	1.07%	0.04%	0.04%	-4.67%
Real Estate Select Sector	XLRE	\$37.38	1.56%	0.60%	0.60%	1.99%
Communications Services Sector	XLC	\$50.08	0.63%	0.68%	0.68%	2.72%

# Market Share Volume & Total Value Traded

<u>INDEX/SECURITY</u>	<b>VOLUME: (7/2) vs.</b>			
	<u>Prior Day</u>	<u>1M Ave</u>	<u>3M ave</u>	<u>1Y Ave</u>
Total Market Volume*	3%	-3%	-3%	-14%
Total Exchange Volume**	-10%	-8%	-6%	-11%

\*Total Market Volume = Total US exchange volume plus OTC and OTCBB trading volume for all security types. Calculated by Bloomberg.

\*\*Tape A+B+C volume = total US exchange volume

\*\*\* Total Traded Value for Russell 3000 (total mkt proxy)

# Style Factor Performance

	FACTOR	1D % Chg	1W % Chg	1M % Chg	3M % Chg	6M % Chg	YTD % Chg
Debt	High Debt/EV	0.0%	1.9%	8.4%	1.5%	16.0%	17.0%
	Low Debt/EV	-0.1%	2.1%	7.8%	2.1%	21.1%	20.9%
SI	High Short Interest	-0.2%	1.8%	7.0%	-1.0%	13.5%	13.9%
	Low Short Interest	0.4%	1.9%	8.1%	5.7%	21.6%	21.4%
BETA	High Beta	-0.8%	3.4%	11.3%	-0.6%	17.0%	18.4%
	Low Beta	0.9%	0.6%	4.4%	4.1%	18.2%	16.8%
YIELD	High Yield	0.0%	1.5%	6.5%	-1.9%	9.4%	9.5%
	Low Yield	0.0%	2.8%	9.2%	4.0%	24.9%	24.9%
MKT CAP	MCAP Bottom 25%	-0.5%	2.2%	8.3%	-3.2%	10.0%	10.7%
	MCAP Top 25%	0.4%	1.7%	7.9%	4.3%	19.1%	19.1%
Sales	Top 25% Sales Growth	-0.3%	2.3%	7.6%	2.0%	21.7%	21.9%
	Bottom 25% Sales Growth	0.0%	1.8%	7.5%	-0.3%	11.7%	12.2%
EPS	Top 25% EPS Growth	-0.3%	2.3%	10.0%	3.6%	23.4%	24.0%
	Bottom 25% EPS Growth	0.1%	1.7%	6.9%	0.4%	12.4%	12.3%

*\*Mean Performance of Top Quartile vs. Bottom Quartile, S&P500 Companies*



July 3, 2019

# Rates & Spreads

		1D	5D	1M	3M	vs. 52-Wk, Bps		vs.	vs.
	Price	Bps Chg	Bps Chg	Bps Chg	Bps Chg	High	Low	3Y Ave	5Y Ave
3M T-Bill	2.18%	9.3	5.9	-16	-23	-30	27	76	129
3M LIBOR	2.33%	1.2	2.1	-17	-27	-49	2	57	112
2Y T-Note	1.77%	1.0	3.3	-16	-54	-121	7	-7	40
5Y T-Note	1.75%	-2.1	2.1	-17	-54	-135	4	-41	-15
10Y T-Note	1.98%	-2.9	-0.9	-15	-50	-128	0	-49	-35
30Y T-Note	2.50%	-2.6	-1.7	-7	-37	-96	2	-41	-39
2Y-10Y Spread, Bps	21	-4.0	-4.3	0.8	4	-8	-7	-42	-75
IG SPREAD (AAABBB)	1.44%	-3.0	-5.0	-18	-14	-45	0	-7	-18
HIGH YIELD	5.84%	-3.0	-2.0	-73	-49	-228	20	-33	-65
5Y BREAK EVEN	1.50%	-4.0	-5.7	-9.1	-32.9	-62.2	4.4	-31.0	-17.2

# Key \$USD Correlations

## 52-Wk Rolling 30D Correlation

METRIC	15D	30D	90D	120D	180D	High	Low	% Time Pos	% Time Neg
SPX	-0.48	-0.69	0.02	0.48	0.43	0.72	-0.92	42%	58%
BRENT Oil	-0.81	-0.05	0.31	0.51	0.36	0.71	-0.86	48%	52%
CRB Index	0.36	0.66	0.10	0.51	0.29	0.71	-0.94	43%	57%
GOLD	-0.88	-0.88	-0.62	-0.46	-0.20	0.54	-0.91	13%	87%

\*Days = Trading Days

# CFTC Non-Commercial Net Long Positioning

## CFTC NON-COMMERCIAL NET LONG POSITIONING

	METRIC	Latest	W/W Chg	3M Ave	6M Ave	1Y Ave	3Y		Z-Score	
							Max	Min	1Y	3Y
EQUITIES	SPX (Index + E-mini)	91,911	27,000	57,329	12,827	92,008	249,638	(128,189)	-0.00X	-0.09X
	VIX	(116,694)	(8,050)	(129,774)	(91,223)	(72,279)	92,913	(180,359)	-0.68X	-0.57X
	Russell 2000 (mini)	(61,774)	(14,701)	(21,545)	(19,137)	(27,945)	133,746	(139,273)	-0.99X	-1.53X
	Dow Jones (mini)	36,514	19,742	20,780	19,951	24,021	95,976	(282)	1.23X	-0.37X
	Nasdaq (mini)	24,079	538	8,297	(2,046)	9,098	163,838	(24,815)	0.77X	-0.39X
	Nikkei Index	(6,540)	(575)	(13,258)	(12,610)	(9,550)	14,214	(16,298)	0.77X	-0.89X
RATES	10Y UST	(326,024)	21,433	(289,810)	(218,556)	(354,463)	372,991	(758,490)	0.15X	-0.70X
	2Y UST	(263,518)	(114,256)	(108,840)	(176,965)	(198,716)	104,027	(421,551)	-0.55X	-1.16X
	5Y UST	(36,037)	(42,437)	(72,088)	(128,323)	(388,365)	6,400	(866,140)	1.15X	1.33X
	UST Bonds	2,332	20,787	(33,351)	(34,030)	(45,905)	122,839	(142,810)	1.50X	-0.00X
	30D Fed Funds	(49,560)	23,882	(149,671)	(134,361)	(67,485)	219,071	(286,025)	0.19X	0.16X
	Eurodollar	581,221	51,217	269,017	(298,329)	(1,285,481)	677,220	(3,110,209)	1.65X	2.43X
CURRENCIES	USD	22,369	(6,178)	27,290	29,544	31,695	56,635	(10,666)	-1.65X	0.01X
	JPY	(11,663)	6,355	(62,353)	(56,826)	(69,719)	69,211	(140,151)	2.16X	0.80X
	EUR	(53,407)	2,794	(95,646)	(78,031)	(46,388)	147,318	(143,673)	-0.16X	-0.63X
	GBP	(58,577)	(4,700)	(22,598)	(30,730)	(40,651)	49,216	(113,271)	-0.89X	-0.58X
	AUD	(65,711)	(625)	(59,027)	(49,224)	(52,044)	77,969	(74,181)	-1.09X	-1.52X
	CAD	(13,764)	25,189	(41,513)	(44,308)	(33,862)	78,001	(99,736)	1.19X	-0.12X
	MXN	115,030	(1,778)	137,581	107,150	67,257	156,013	(89,524)	0.92X	1.20X
	NZD	(24,058)	432	(12,195)	(6,284)	(15,109)	35,981	(35,412)	-0.71X	-1.31X
COMMODITIES	CHF	(16,095)	(758)	(31,883)	(27,166)	(27,844)	8,389	(47,216)	1.07X	0.15X
	CRUDE OIL	415,769	5,311	500,193	438,897	485,908	784,290	278,615	-0.67X	-0.72X
	GOLD	229,664	39,983	70,475	67,064	12,900	286,921	(103,009)	2.97X	1.38X
	COPPER	(25,033)	(936)	(13,018)	(7,011)	(927)	67,602	(31,214)	-1.59X	-1.80X
	Natural Gas	(165,702)	(19,746)	(83,963)	(49,958)	(45,724)	57,455	(175,051)	-2.40X	-2.20X
	RBOB Gasoline	85,103	10,060	87,774	87,098	91,647	114,862	29,519	-0.57X	0.47X
	ULSD Heating Oil	(12,193)	7,259	(16,928)	(13,589)	8,438	67,696	(25,442)	-0.79X	-1.56X
	Silver	29,717	16,029	849	22,942	8,943	107,003	(30,158)	0.80X	-0.21X
	Platinum	1,425	(2)	19,448	15,698	10,069	56,853	(11,540)	-0.65X	-1.27X
	Aluminum	163,475	(2,043)	159,128	161,735	157,727	168,292	122,356	0.55X	1.31X
	Nickel	42,230	(365)	42,658	44,005	37,006	47,708	13,508	0.60X	1.21X
	Corn	285,153	43,638	(55,391)	(29,680)	7,075	372,754	(270,560)	2.03X	1.79X
	Soybeans	(6,574)	17,031	(84,897)	(49,118)	(44,232)	210,365	(148,817)	0.93X	-0.45X
	Wheat	39,219	2,969	(24,971)	(26,325)	(9,328)	63,219	(143,292)	1.39X	1.72X
	Live Cattle	62,130	(9,518)	124,382	132,682	108,195	183,134	19,421	-1.24X	-0.87X
	Lean Hogs	69,593	(3,541)	85,851	52,666	36,216	97,769	(11,151)	1.01X	0.95X
	Sugar	(17,316)	17,258	(64,636)	(46,833)	(37,210)	351,383	(145,405)	0.36X	-0.39X
	Cotton	(28,106)	(6,173)	4,200	4,316	37,085	132,318	(28,106)	-1.63X	-2.50X
	Coffee	(22,152)	5,191	(51,257)	(54,188)	(60,740)	67,942	(106,651)	1.67X	0.02X
	Cocoa	47,727	2,468	13,481	8,467	5,447	61,244	(43,846)	2.15X	1.59X
	Orange Juice	(6,521)	(349)	(6,827)	(7,544)	(4,477)	10,123	(9,416)	-0.44X	-1.19X

HEDGEYE TV

The Macro Show  
July 3, 2019

# Volatility

TIME WINDOW SETTING:		TOTAL RETURN	IVOL PREMIUM/DISCOUNT						REALIZED VOLATILITY TRENDS			IMPLIED VOLATILITY TRENDS		
VOLATILITY_30D		PERFORMANCE	IVOL PREM %						RVOL		PERCENTILE	IVOL		PERCENTILE
PUT_IMP_VOL_30D	TICKER	YTD %	IVOL / RVOL	Yesterday	1W Ago	1M Ago	TTM Z-Score	3Yr Z-Score	CURRENT	MM %	10YR	CURRENT	MM %	10YR
US EQUITIES														
			CURRENT											
Technology Sector SPDR ETF	XLK US EQUITY	29.12%	-18%	-12%	-1%	21%	-0.7	-0.8	19.7	5%	80%	16.2	-28%	57%
Power Shares QQQ Trust ETF	QQQ US EQUITY	23.67%	-17%	-8%	4%	22%	-0.8	-0.9	17.8	-3%	68%	14.8	-34%	38%
Consumer Discretionary Sector SPDR ETF	XLY US EQUITY	22.55%	-15%	-7%	13%	20%	-0.8	-1.0	14.3	-7%	54%	12.2	-34%	18%
Communication Services SPDR ETF	XLC US EQUITY	21.82%	-12%	-8%	-6%	9%			17.6	-8%	36%	15.5	-26%	7%
Industrials Sector SPDR ETF	XLI US EQUITY	21.38%	-3%	-3%	104%	20%	-0.3	-0.4	15.0	-10%	53%	14.6	-27%	40%
Vanguard Real Estate REIT ETF	VNO US EQUITY	21.17%	-12%	-2%	10%	2%	-0.5	-0.7	14.3	9%	47%	12.5	-7%	27%
SPDR S&P 500 ETF Trust	SPY US EQUITY	19.71%	-10%	-4%	11%	28%	-0.5	-0.6	12.4	-10%	50%	11.1	-37%	27%
Financials Sector SPDR ETF	XLF US EQUITY	18.15%	-3%	-5%	14%	33%	-0.5	-0.5	15.1	-2%	40%	14.6	-29%	22%
Materials Sector SPDR ETF	XLB US EQUITY	17.77%	-3%	-12%	95%	19%	-0.3	-0.4	16.7	-2%	51%	16.1	-21%	40%
Consumer Staples Sector SPDR ETF	XLP US EQUITY	17.57%	-17%	-15%	203%	19%	-0.7	-0.9	12.7	5%	70%	10.5	-26%	29%
I-Shares Russell 2000 ETF	IWM US EQUITY	16.59%	-10%	-7%	12%	11%	-0.6	-0.8	16.3	-13%	46%	14.7	-30%	19%
Utilities Sector SPDR ETF	XLU US EQUITY	15.68%	-19%	-3%	18%	-3%	-0.9	-1.2	15.1	14%	66%	12.3	-4%	31%
Energy Sector SPDR ETF	XLE US EQUITY	11.27%	-18%	-15%	3%	21%	-1.1	-1.1	21.4	11%	61%	17.5	-25%	32%
Health Care Sector SPDR ETF	XLV US EQUITY	9.06%	4%	11%	55%	28%	-0.1	-0.2	11.3	-16%	33%	11.8	-31%	21%
INTERNATIONAL EQUITIES														
Euro Stoxx 50 Index	SXSE INDEX	20.43%	-19%	-13%	-13%	4%	-1.2	-1.0	12.5	-18%	21%	10.2	-36%	2%
I-Shares China Large-Cap ETF	FXI US EQUITY	11.89%	0%	4%	15%	5%	0.1	-0.2	16.9	-15%	16%	16.9	-19%	9%
I-Shares MSCI Emerging Markets ETF	EEM US EQUITY	11.72%	14%	14%	14%	8%	1.0	0.5	14.0	-22%	18%	15.9	-18%	19%
I-Shares MSCI Japan ETF	EWJ US EQUITY	10.54%	-10%	-12%	3%	-3%	-0.4	-0.7	12.3	-17%	25%	11.2	-23%	12%
CURRENCIES														
PowerShares US Dollar Index ETF	UUP US EQUITY	2.71%	21%	24%	22%	44%	-0.1	0.1	5.4	38%	18%	6.5	17%	16%
Currency Shares Japanese Yen ETF	FXJ US EQUITY	1.30%	10%	6%	31%	23%	-0.3	0.1	5.8	6%	14%	6.4	-6%	8%
Currency Shares British Pound ETF	FXB US EQUITY	-1.19%	15%	14%	15%	16%	0.0	0.5	5.5	-10%	10%	6.3	-11%	9%
Currency Shares Euro Trust ETF	FXE US EQUITY	-1.89%	-7%	-6%	11%	33%	-0.6	-0.6	5.7	48%	10%	5.3	4%	4%
COMMODITIES														
United States Oil Fund ETF	USO US EQUITY	21.12%	-20%	-21%	-6%	33%	-1.4	-1.4	44.1	29%	91%	35.4	-22%	70%
SPDR Gold Shares ETF	GLD US EQUITY	10.03%	4%	-1%	37%	16%	0.0	-0.2	14.4	78%	54%	14.9	60%	46%
PowerShares DB Agriculture Fund ETF	DBA US EQUITY	-2.77%	16%	18%	5%	5%	-0.6	-0.6	12.3	-10%	53%	14.3	-1%	46%
United States Natural Gas Fund ETF	UNG US EQUITY	-22.06%	17%	9%	16%	18%	0.5	0.5	31.4	22%	36%	36.9	21%	44%
FIXED INCOME														
I-Shares IBOX IG Corporate Bond ETF	LQD US EQUITY	12.44%	-2%	8%	20%	-6%	-0.7	-0.9	4.5	13%	37%	4.4	17%	12%
I-Shares J.P. Morgan USD EM Bond ETF	EMB US EQUITY	12.06%	-24%	-17%	-15%	-21%	-1.6	-1.7	6.4	32%	66%	4.9	28%	5%
I-Shares 20+ Year Treasury Bond ETF	TLT US EQUITY	11.07%	-4%	2%	9%	39%	-0.5	-0.5	10.1	23%	22%	9.7	-15%	15%
I-Shares IBOX HY Corporate Bond ETF	HYG US EQUITY	10.18%	-28%	-14%	2%	18%	-1.3	-1.2	6.0	9%	51%	4.3	-33%	11%
I-Shares 7-10 Year Treasury Bond ETF	IEF US EQUITY	6.90%	14%	17%	29%	24%	-0.2	-0.1	4.8	10%	30%	5.5	1%	31%

Data Source: CBOE, CME, Bloomberg