

# LEGAL

HEDGEYE TV The Macro Show

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## CHINA







# 1) CHINA

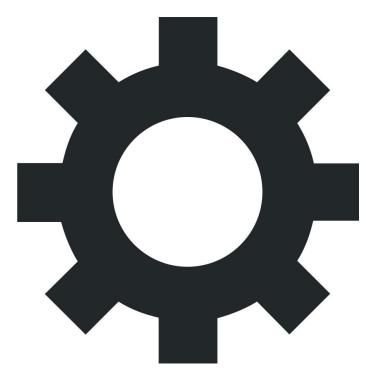
With Xi chirping Trump in his speech this weekend, was their recent conversation really "really nice"? Asian Equity markets certainly don't believe that – they believe the #GrowthSlowing economic data though with the KOSPI reversing -0.9% to -20% since JAN, Nikkei down -1.6%, and Singapore down -1.8%. Copper is down -1.1% again this morning too.

# 2 OIL

Macro Tourists will talk Iran... meanwhile you should be talking about how a -18% draw-down in WTI in a month is going to impact your inflation forecast for the next 3-6 months! Prior to this smack-down to \$62.50 we had the low forecast for headline inflation – this move mathematically ensures the *#InflationSlowing* component of our Quad 4 call in the U.S.

# **3** UST 10YR

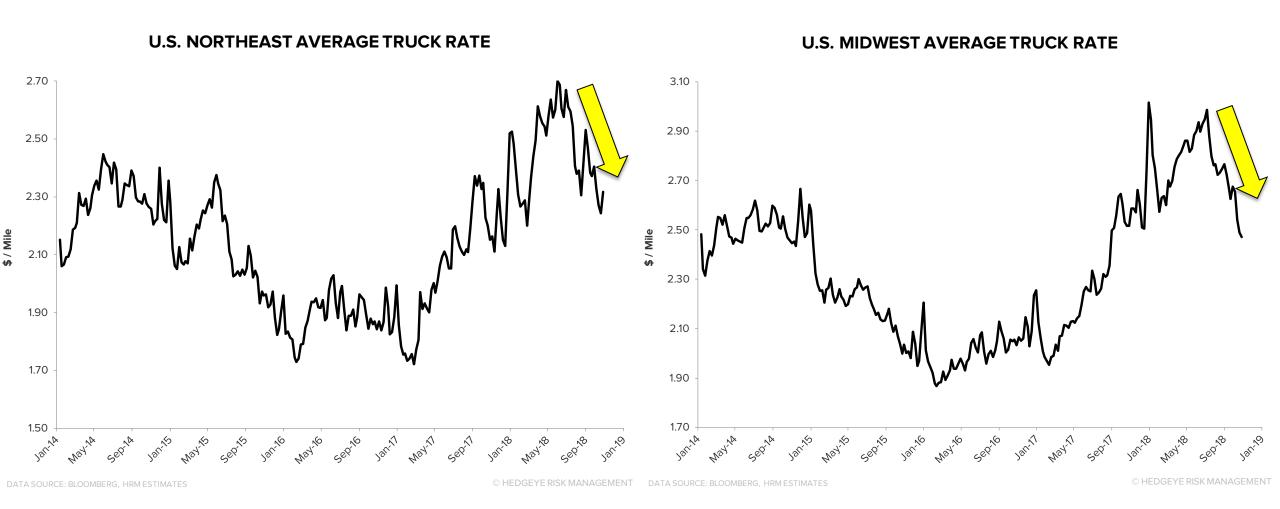
But, but, Wage Inflation! Yep. We not only have the low forecast for headline inflation on Wall St - we have the high "jump conditions" in U.S. Wages outlook (which happens at the end of every cycle and also perpetuates the pending profit squeeze). We thought yields could bounce on jobs days, then back off days where the rest of Quad 4 is reported – U.S. PPI for OCT due out on Friday.





# JAY VAN SCIVER INDUSTRIALS & MATERIALS

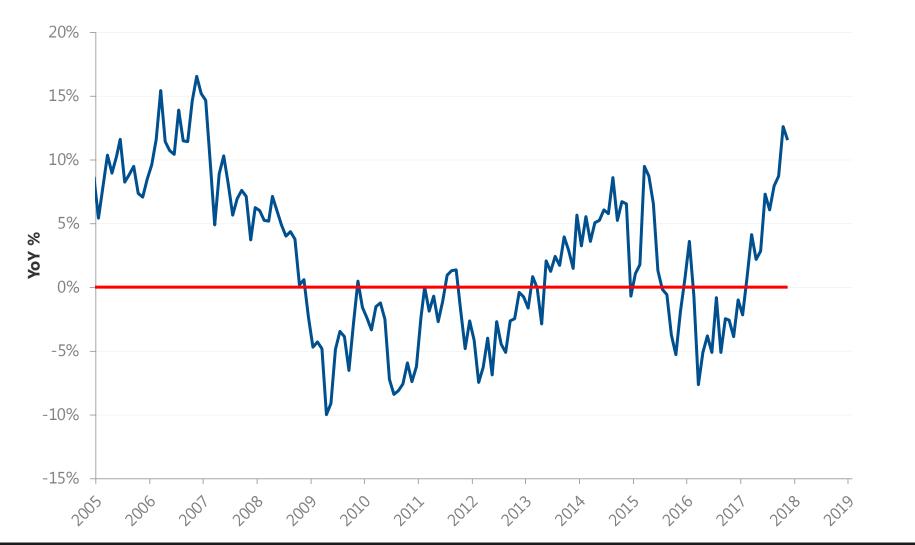
#### FREIGHT HEADWIND ABATING, FLOWS THROUGH ON A LAG



**\$12 Mil Ceramic Headwind in 3Q18:** While some are looking for a seasonal pick-up around the holidays, recent spot market pricing likely reflects added capacity and decelerating demand growth.

# **PUBLIC SPENDING A BOOST**

#### **U.S. PUBLIC CONSTRUCTION SPENDING ON NON-RESIDENTIAL**

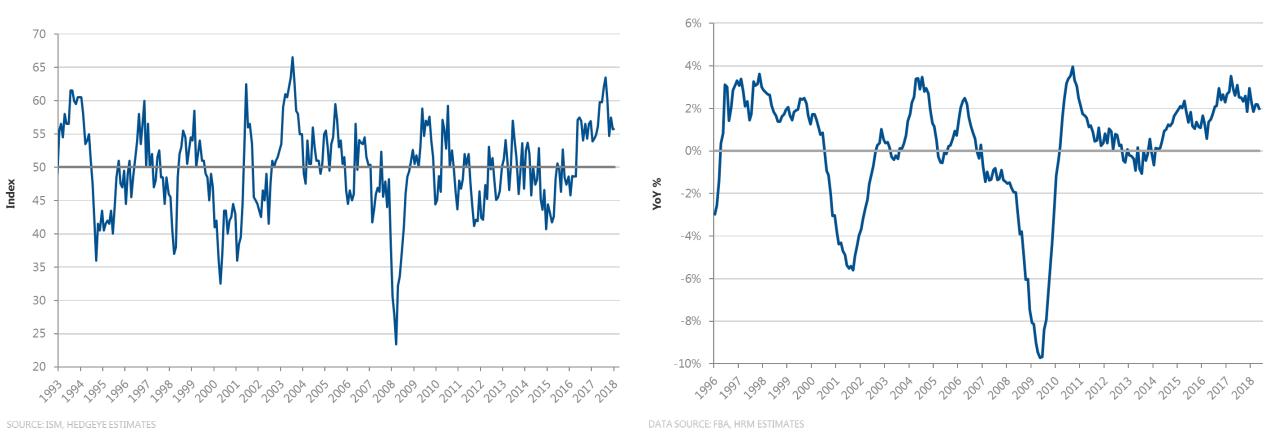


Fiscal yearend rush, but also a pull forward of activity via faster approvals.

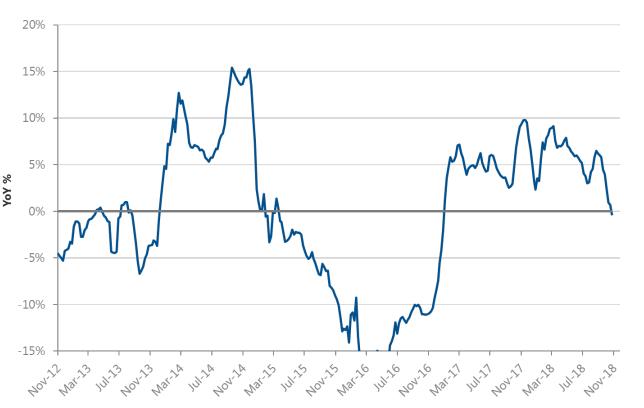
# **GROWTH IS SLOWING**

#### ISM REPORTS ON BUSINESS BACKLOG

#### U.S. BOX SHIPMENTS TTM, YOY %

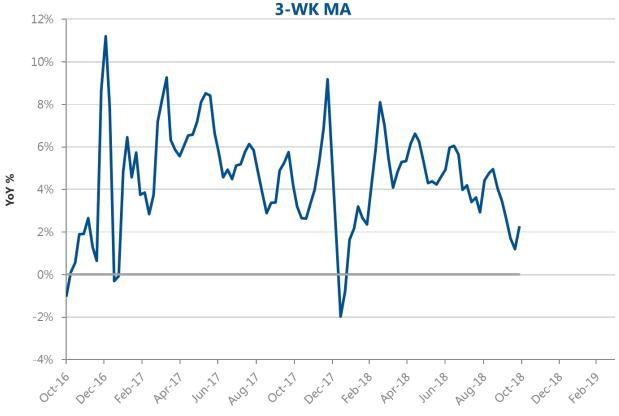


# SHOWS UP IN RAIL DATA



**RAILROAD WEEKLY TERMINAL DWELL - 4WK MA, YOY %** 

AAR NORTH AMERICA TOTAL CARLOADS ORIGINATED YOY%,





DATA SOURCE: AAR, HRM ESTIMATE

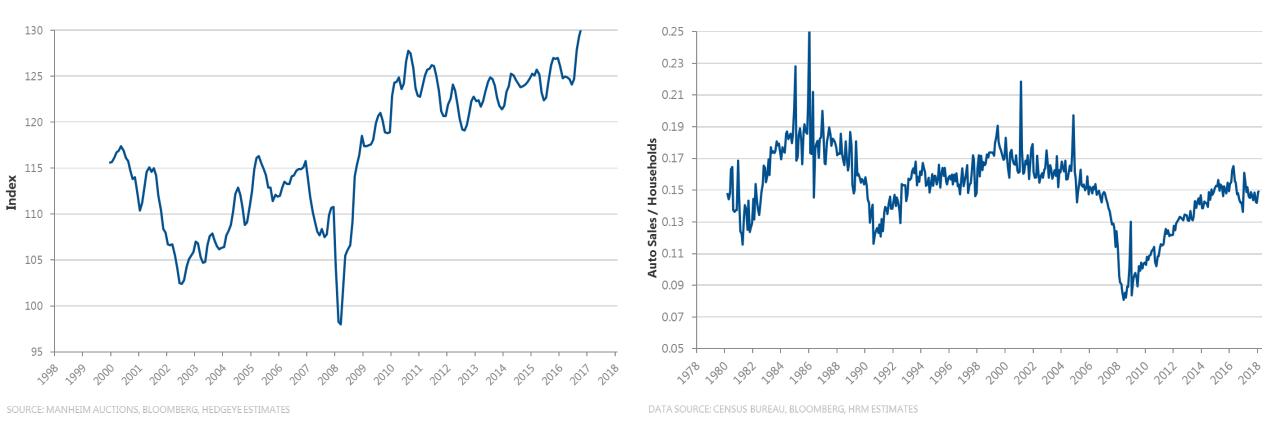
# **A COUPLE OF TESLA CHARTS**



# **MOSTLY USED PRICES ARE UP**

#### MANHEIM U.S. USED VEHICLE VALUE INDEX SA

#### **U.S. AUTO SALES PER HOUSEHOLD**



# TARIFFS DISRUPTIVE



MACRO GRIND

### **Please** Don't Get Too Excited When The Biggest Losers Bounce



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	STYLE FACTOR PERFORMANCE*														
		1D	1W	1M	3M	6M	YTD								
	FACTOR	% Chg													
đ.	High Debt/EV	-0.5%	3.3%	-4.5%	-4.9%	-0.8%	-6.1%	SECTOR PERFORMANCE		1D	5D	IM	3M	MTD	YTD
ă	Low Debt/EV	-0.4%	4.6%	-5.3%	-4.0%	3.0%	7.6%	Sector	Ticker	% Chg	% Chg	% Chg	% Chg	% Chg	% Chg
5	High Short Interest	-0.2%	5.7%	-2.8%	-3.8%	1.0%	0.7%	Consumer Discretionary	XLY	0.41%	4.41%	-4.53%	-3.48%	2.46%	9.40%
	Low Short Interest	-0.4%	2.6%	-6.3%	-4.1%	2.1%	2.9%	Financial Select Sector	XLF	-0.08%	4.43%	-6.25%	-6.19%	0.38%	-5.48%
TA	High Beta	-0.5%	7.1%	-9.2%	-9.0%	-4.6%	-5.9%	Health Care Select Sector	XLV	-0.62%	2.10%	-5.44%	-0.61%	0.63%	7.96%
BE	Low Beta	-0.7%	1.4%	-0.7%	-1.8%	3.9%	0.3%	Technology Select Sector	XLK	-1.95%	0.95%	-7.81%	-5.47%	-0.81%	7.49%
ΓD	High Yield	-0.5%	2.3%	-3.5%	-5.3%	-1.7%	-7.7%	Consumer Staples Select Sector	XLP	-0.52%	2.38%	3.03%	1.51%	0.18%	-3.13%
YIE	Low Yield	-0.4%	5.0%	-6.4%	-4.5%	3.7%	10.4%	Industrial Select Sector	XLI	-0.17%	2.74%	-10.52%	-6.41%	1.59%	-6.18%
D d	MCAP Bottom 25%	-0.3%	5.3%	-5.1%	-6.8%	-3.5%	-6.9%	Materials Select Sector	XLB	-0.24%	6.10%	-7.08%	-8.99%	2.57%	-10.85%
MKT	MCAP Top 25%	-0.6%	2.6%	-6.0%	-3.0%	4.5%	4.9%	Energy Select Sector	XLE	-0.25%	1.62%	-12.45%	-10.21%	0.60%	-6.50%
S	Top 25% Sales Growth	-0.5%	3.8%	-7.7%	-6.7%	-0.7%	5.1%	Utilities Select Sector	XLU	-0.56%	-0.41%	0.62%	-0.28%	-1.01%	0.89%
Sal	Bottom 25% Sales Growth	-0.5%	3.4%	-3.1%	-5.0%	-0.6%	-5.9%	S&P 500	SPX	-0.63%	2.42%	-5.63%	-4.13%	0.42%	1.85%
60	Top 25% EPS Growth	-0.6%	4.6%	-7.6%	-5.3%	0.4%	2.7%								
di Li	Bottom 25% EPS Growth	-0.7%	3.3%	-4.1%	-6.0%	-1.8%	-5.5%								

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

STVIE EACTOR REPEORMANCES

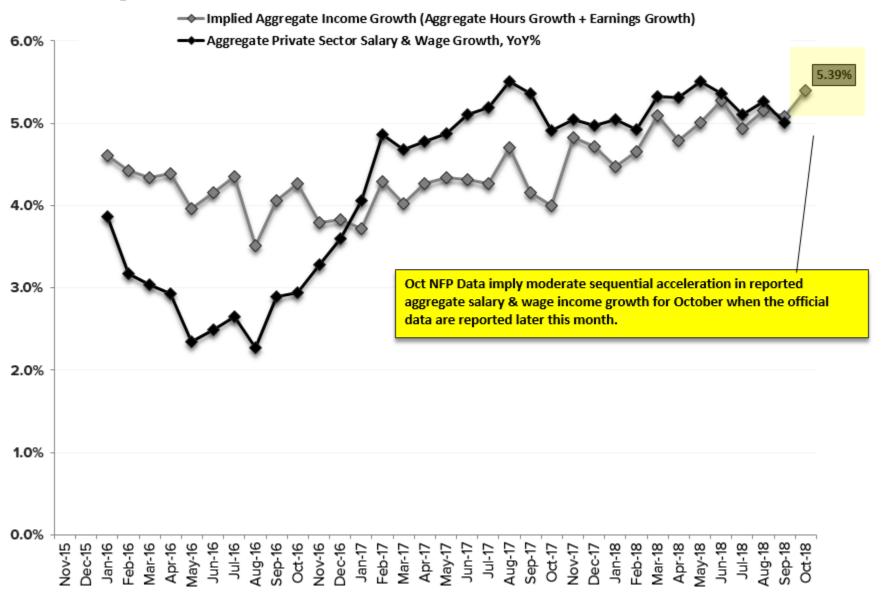
### **Average Hourly Earnings Growth**

AHE, YoY % ••• > 6 per. Mov. Avg. (AHE, YoY %) 3.3 9Y High 3.1 2.9 2.7 2.5 2.3 2.1 1.9 1.7 1.5 Oct-10 Apr-11 Apr-12 Apr-13 Apr-14 Jan-15 Apr-15 Jul-15 Oct-15 Jan-16 Apr-16 Apr-18 Jul-18 Oct-18 Jan-11 Jul-11 Oct-11 Jan-12 Jul-12 Oct-12 Jan-13 Jul-13 Oct-13 Jan-14 Jul-14 Oct-14 Jul-16 Oct-16 Apr-17 Jan-18 Jan-17 Jul-17 Oct-17



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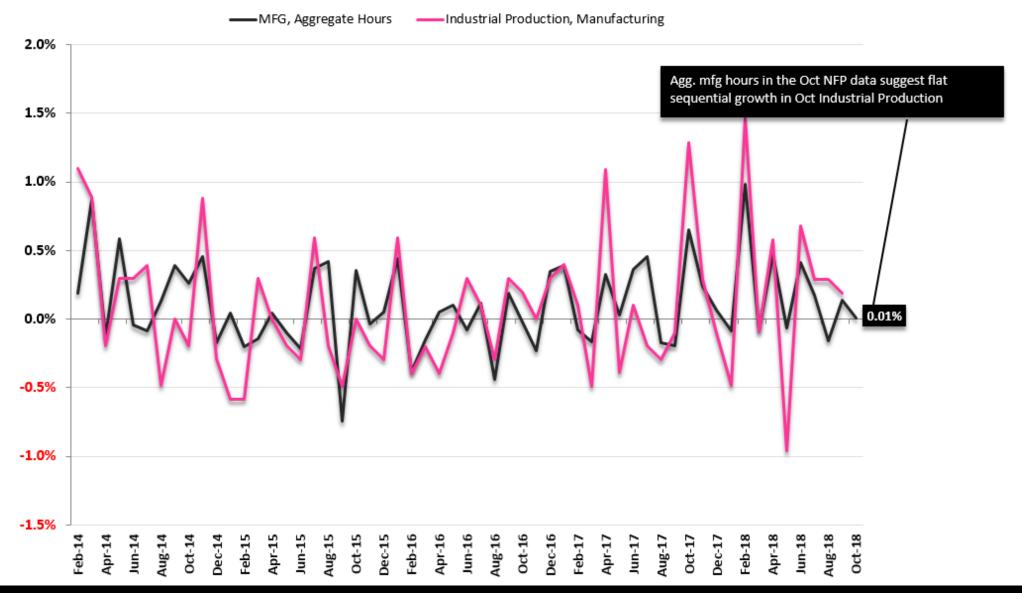
### **Reported & Implied Income Growth**



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#### Industrial Production vs. NFP Implied Industrial Activity





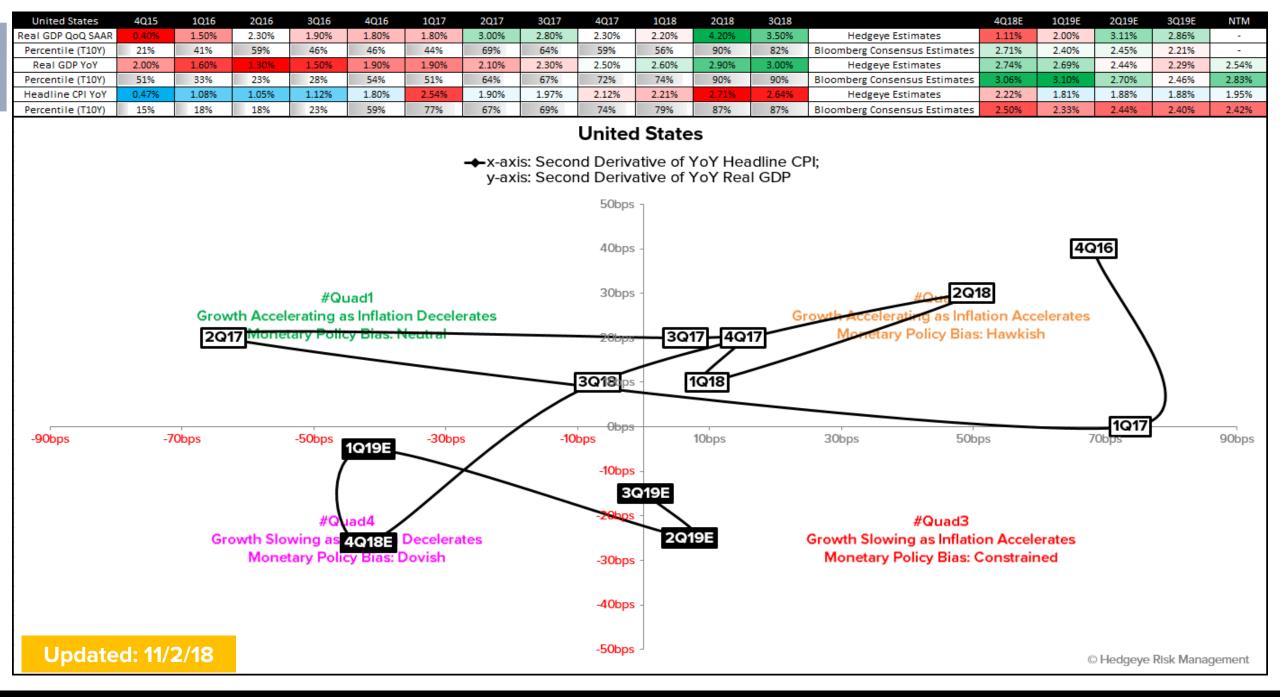
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#### **Employment Summary**



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Total Nonfarm Payrolls	Oct-18 149,750	Sep-18 149,500	Aug-18 149,382	<u>Jul-18</u> 149,096	<u>Jun-18</u> 148,931	<u>May-18</u> 148,723	<u>Apr-18</u> 148,455	<u>Mar-18</u> 148,280	Feb-18 148,125	<u>Jan-18</u> 147,801	Dec-17 147,625	<u>Nov-17</u> 147,450	Oct-17 147,234
NFP, M/M Chg	250	149,500	286	149,090	208	268	148,455	148,280	324	147,301	147,025	216	271
3M Ave Chg	218	190	220	214	217	199	218	218	225	189	221	167	169
6M Ave Chg	216	203	210	216	218	212	204	220	196	179	181	192	182
0													
NFP, Y/Y %	1.71%	1.73%	1.66%	1.61%	1.63%	1.66%	1.58%	1.58%	1.53%	1.44%	1.50%	1.51%	1.48%
NFP, 2Y Ave Growth	1.60%	1.56%	1.61%	1.58%	1.63%	1.66%	1.58%	1.59%	1.62%	1.60%	1.57%	1.59%	1.61%
Total Private Payrolls	127,353	127,107	126,986	126,719	126,582	126,390	126,130	125,956	125,803	125,482	125,294	125,120	124,903
Private, M/M Chg	246	121	267	137	192	260	174	153	321	188	174	217	277
3M Ave Chg	211	175	199	196	209	196	216	221	228	193	223	170	167
6M Ave Chg	204	192	197	206	215	212	205	222	199	180	180	188	179
Private, Y/Y %	1.96%	1.99%	1.91%	1.86%	1.91%	1.93%	1.86%	1.86%	1.79%	1.70%	1.76%	1.76%	1.72%
Private, 2Y Ave Growth	1.84%	1.81%	1.86%	1.82%	1.86%	1.91%	1.81%	1.81%	1.83%	1.80%	1.76%	1.78%	1.80%
Goods, M/M Chg													
Construction	30	20	31	19	8	30	16	(3)	67	28	42	42	17
Manufacturing	32	18	11	22	21	23	28	21	31	20	39	30	20
Services, M/M Chg													
Trade/Transportation/Utilities	37	(8)	54	17	(14)	52	(9)	41	68	34	(9)	49	28
Wholesale Trade	9	3	21	10	13	9	(10)	10	3	7	9	10	8
Retail Trade	2	(32)	9	2	(42)	29	(2)	11	46	12	(26)	27	7
Information	7	(4)	(4)	1	(2)	3	3	6	(1)	(16)	(4)	(4)	-
Finance	7	15	9	3	12	12	3	5	29	3	8	9	9
Profession & Business Services	35	46	54	39	47	49	59	41	61	38	31	16	60
Education & Health Services	44	26	67	36	67	42	38	29	32	50	30	38	15
Leisure & Hospitality	42	-	30	13	28	35	14	2	18	21	31	20	110
Other	7	4	8	(13)	18	11	14	3	7	3	5	11	17
Temp Employment, M/M Chg	3	8	11	10	(7)	(1)	18	(3)	22	(2)	(1)	7	20
Part-time Employment, M/M Chg	242	142	(79)	(36)	145	(625)	(350)	310	277	14	119	(4)	(461)
HOUSEHOLD SURVEY													
CPS Employment	156,562	155,962	155,542	155,965	155,576	155,474	155,181	155,178	155,215	154,430	154,021	153,917	153,846
M/M Chg	600	420	(423)	389	102	293	3	(37)	785	409	104	71	(478)
3M Ave Chg	199	129	23	261	133	86	250	386	433	195	(101)	149	112
6M Ave Chg	230	131	55	256	259	260	223	142	291	153	129	171	114
Unemployment Rate, %	3.7	3.7	3.9	3.9	4.0	3.8	3.9	4.1	4.1	4.1	4.1	4.1	4.1
Labor Force Participation Rate, %	62.9	62.7	62.7	62.9	62.9	62.7	62.8	62.9	63.0	62.7	62.7	62.7	62.7
Ave. Weekly Hours, Private	34.5	34.4	34.5	34.5	34.6	34.5	34.5	34.5	34.5	34.4	34.5	34.5	34.4



#### DATA SOURCE: BLOOMBERG



### **U.S. Index Revenue & Earnings Comps**

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Q3 2018 QTD			
S&P 500	SALES GROWTH (YY%)	EARNINGS GROWTH (YY%)	#REPORTED
S&P 500 (Aggte.)	8.9%	25.5%	376 / 500
Energy	19.4%	111.9%	24 / 30
Materials	9.9%	28.8%	16 / 23
Industrials	6.0%	16.3%	60 / 71
<b>Consumer Discretionary</b>	10.2%	26.7%	38 / 64
Consumer Staples	3.6%	8.2%	21 / 32
Healthcare	7.4%	14.7%	45 / 63
Financials	4.4%	30.9%	62 / 67
Information Technology	12.0%	27.7%	47 / 66
<b>Communication Services</b>	12.2%	27.3%	12 / 22
Utilities	2.5%	12.0%	20 / 29
Real Estate	13.2%	9.5%	31 / 32

Nasdaq 100	SALES GROWTH (YY%)	EARNINGS GROWTH (YY%)	#REPORTED
Nasdaq (Aggte.)	13.7%	26.5%	66 / 100
Industrials	10.2%	29.3%	7 / 7
<b>Consumer Discretionary</b>	28.7%	193.4%	8 / 17
Consumer Staples	5.4%	4.9%	5 / 6
Healthcare	4.2%	2.7%	15 / 20
Information Technology	16.6%	32.4%	22 / 35
<b>Communication Services</b>	14.9%	23.6%	9 / 13



### **U.S. Index Revenue & Earnings Comps**

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Dow Jones	SALES GROWTH (YY%)	EARNINGS GROWTH (YY%)	#REPORTED
Dow Jones (Aggte.)	7.4%	21.3%	22 / 30
Energy	0.0%	0.0%	0 / 2
Industrials	0.0%	0.0%	0 / 1
<b>Consumer Discretionary</b>	6.7%	22.4%	4 / 4
Consumer Staples	3.3%	14.5%	2/3
Health Care	4.5%	5.9%	3 / 4
Financials	8.1%	12.7%	4 / 4
Information Technology	8.1%	29.9%	4 / 4
Communication Services	12.0%	29.5%	4 / 6

Russell 2000	SALES GROWTH (YY%)	EARNINGS GROWTH (YY%)	#REPORTED
Russell 2000 (Aggregate)	8.7%	25.5%	792 / 2012
Energy	26.4%	82.3%	36 / 123
Materials	11.5%	49.4%	30 / 74
Industrials	9.6%	27.0%	120 / 265
Consum er Discretionary	6.7%	8.8%	78 / 225
Consumer Staples	-16.4%	40.8%	13 / 55
Healthcare	5.1%	125.3%	57 / 367
Financials	9.3%	39.1%	312 / 405
Inform ation Technology	10.1%	19.2%	80 / 225
<b>Communication Services</b>	5.9%	6760.1%	14 / 65
Utilities	-1.9%	12.8%	5 / 36
Real Estate	-0.4%	-3.5%	44 / 112

#### **Sector Performance**



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			<u>1-Day %</u>	<u>MTD %</u>	<u>YTD %</u>
SECTOR	<u>Ticker</u>	Price	Chg	Chg	Chg
Consumer Discretionary	XLY	\$107.97	0.41%	2.46%	9.40%
Financial Select Sector	XLF	\$26.38	-0.08%	0.38%	-5.48%
Health Care Select Sector	XLV	\$89.26	-0.62%	0.63%	7.96%
Technology Select Sector	XLK	\$68.74	-1.95%	-0.81%	7.49%
Consumer Staples Select Sector	XLP	\$55.11	-0.52%	0.18%	-3.13%
Industrial Select Sector	XLI	\$70.99	-0.17%	1.59%	-6.18%
Materials Select Sector	XLB	\$53.96	-0.24%	2.57%	-10.85%
The Energy Select Sector	XLE	\$67.56	-0.25%	0.60%	-6.50%
Utilities Select Sector	XLU	\$53.15	-0.56%	-1.01%	0.89%
Real Estate Select Sector	XLRE	\$31.94	-0.84%	-0.47%	-3.04%
<b>Communications Services Sector</b>	XLC	\$45.84	-1.01%	-0.43%	
S&P 500	SPX	2,723.06	-0.63%	0.42%	1.85%

#### **Sector Relative Performance**



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			<u>1-Day %</u>	MTD %	<u>YTD %</u>
	<u>Ticker</u>	<b>Price</b>	Chg	<u>Chg</u>	Chg
Consumer Discretionary	XLY	\$107.97	1.04%	2.04%	7.55%
Financial Select Sector	XLF	\$26.38	0.56%	-0.04%	-7.33%
Health Care Select Sector	XLV	\$89.26	0.01%	0.21%	6.11%
Technology Select Sector	XLK	\$68.74	-1.32%	-1.23%	5.64%
Consumer Staples Select Sector	XLP	\$55.11	0.11%	-0.24%	-4.98%
Industrial Select Sector	XLI	\$70.99	0.46%	1.17%	-8.03%
Materials Select Sector	XLB	\$53.96	0.39%	2.15%	-12.70%
The Energy Select Sector	XLE	\$67.56	0.38%	0.18%	-8.35%
Utilities Select Sector	XLU	\$53.15	0.07%	-1.42%	-0.96%
Real Estate Select Sector	XLRE	\$31.94	-0.21%	-0.88%	-4.89%
<b>Communications Services Sector</b>	XLC	\$45.84	-0.38%	-0.85%	



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### Market Share Volume & Total Value Traded

INDEX/SECURITY	VOLUME: (11/2) vs.							
	Prior Day	1M Ave	<u>3M ave</u>	<u>1Y Ave</u>				
Total Market Volume*	8%	20%	43%	17%				
Total Exchange Volume**	-4%	3%	23%	27%				
Total Traded Value (R3K)***	4%	3%	19%	22%				

\*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)

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### **Style Factor Performance**

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		1D	1W	1M	<b>3M</b>	<b>6M</b>	YTD
	FACTOR	% Chg	% Chg	% Chg	% Chg	% Chg	% Chg
Debt	High Debt/EV	-0.5%	3.3%	-4.5%	-4.9%	-0.8%	-6.1%
	Low Debt/EV	-0.4%	4.6%	-5.3%	-4.0%	3.0%	7.6%
SI	High Short Interest	-0.2%	5.7%	-2.8%	-3.8%	1.0%	0.7%
	Low Short Interest	-0.4%	2.6%	-6.3%	-4.1%	2.1%	2.9%
BETA	High Beta	-0.5%	7.1%	-9.2%	-9.0%	-4.6%	-5.9%
8	Low Beta	-0.7%	1.4%	-0.7%	-1.8%	3.9%	0.3%
YIELD	High Yield	-0.5%	2.3%	-3.5%	-5.3%	-1.7%	-7.7%
YIE	Low Yield	-0.4%	5.0%	-6.4%	-4.5%	3.7%	10.4%
<b>MKT</b>	MCAP Bottom 25%	-0.3%	5.3%	-5.1%	-6.8%	-3.5%	-6.9%
2 9	MCAP Top 25%	-0.6%	2.6%	-6.0%	-3.0%	4.5%	4.9%
Sales	Top 25% Sales Growth	-0.5%	3.8%	-7.7%	-6.7%	-0.7%	5.1%
Sa	Bottom 25% Sales Growth	-0.5%	3.4%	-3.1%	-5.0%	-0.6%	-5.9%
\$	Top 25% EPS Growth	-0.6%	4.6%	-7.6%	-5.3%	0.4%	2.7%
EPS	Bottom 25% EPS Growth	-0.7%	3.3%	-4.1%	-6.0%	-1.8%	-5.5%

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

DATA SOURCE: BLOOMBERG, HEDGEYE

### Rates & Spreads

		1D	5D	1M	3M	vs. 52-V	Vk, Bps	vs.	vs.
	Price	Bps Chg	Bps Chg	Bps Chg	Bps Chg	High	Low	3Y Ave	5Y Ave
3M T-Bill	2.31%	-0.1	-0.5	11	31	-2	115	136	174
3M LIBOR	2.59%	0.0	6.1	17	24	0	120	127	170
2Y T-Note	2.90%	5.9	9.7	9	24	-1	130	142	181
5Y T-Note	3.03%	7.7	12.6	8	18	-6	106	110	125
10Y T-Note	3.21%	8.2	13.7	15	23	-5	91	89	87
30Y T-Note	3.45%	7.8	14.4	24	34	-1	78	60	48
2Y-10Y Spread, Bps	31	2.3	3.9	5.6	-1	-4	-39	-53	-94
IG SPREAD (AAABBB)	1.55%	-3.0	1.0	9	6	-9	35	-4	-5
HIGH YIELD	6.35%	0.0	-19.1	47	32	-19	97	-7	2
5Y BREAKEVEN	1.91%	3.6	-1.8	-12.7	-9.0	-27.6	14.8	18.8	21.7





### **Key \$USD Correlations**

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						52-Wk Rolling 30D Correlation					
METRIC	15D	30D	90D	120D	180D	High	Low	% Time Pos	% Time Neg		
SPX	-0.73	-0.70	-0.37	-0.02	0.59	0.73	-0.93	36%	64%		
BRENT Oil	-0.79	-0.62	-0.48	-0.16	0.53	0.84	-0.91	27%	73%		
CRB Index	-0.72	-0.13	-0.37	-0.16	-0.62	0.67	-0.94	46%	54%		
GOLD	0.00	0.54	-0.24	-0.57	-0.87	0.54	<b>-0.9</b> 7	5%	95%		

\*Days = Trading Days

#### CFTC Non-Commercial Net Long Positioning

CFTC N	ON-COMMERCIAL N	3	3Y	Z-Score						
	METRIC	Latest	W/W Chg	3M Ave	6M Ave	1Y Ave	Max	Min	11	3Y
	SPX (Index + E-mini)	248,269	26.857	177,123	171,434	158,794	249,638	(248,441)	2.00X	1.56X
22	VIX	1,998	12,301	(97,147)	(71,670)	(46,257)		(174,665)	0.64X	1.15X
EQUITIES	Russell 2000 (mini)	(30,491)	48,804	(17,451)	17,574	5,721	93,772	(87,847)	-0.95X	-0.60X
5	Dow Jones (mini)	18.317	(5,728)	34,271	24,529	35.014	95,976	(999)	-0.71X	-0.99X
ă	Nasdaq (mini)	9.627	(830)	27,603	21,740	14,702	163.838	(24,647)	-0.30X	-0.97X
	Nikkei Index	(6,968)	859	(6,569)	(2,876)	1,527	14,253	(9,128)	-1.15X	-2.19X
	10Y UST	(464,216)	125,128	(623,900)	(486,787)	(324,025)	372,991	(758,490)	-0.59X	-1.43X
	2Y UST	(323,310)	(4,740)	(217,128)	(113,241)	(140,597)	104,027	(323,310)	-1.73X	-2.26X
RATES	5Y UST	(553,061)	251,920	(802,830)	(697,976)	(564,091)		(866,140)	0.06X	-1.07X
LA.	UST Bonds	(70,193)	25,231	(75,344)	(41,777)	8,607	122.839	(142,810)	-1.21X	-1.80X
~	30D Fed Funds	(69,823)	(13,063)	(18,359)	54,595	26,562	219,071	(286,025)	-0.98X	-0.17X
	Eurodollar	(1,958,725)	111,219	(2,330,577)	(2,502,488)	(2,547,816)	-	(3,110,209)	1.98X	-0.38X
	\$USD	39,597	1,525	35,708	24,115	10,986	56,635	(10,666)	1.72X	0.93X
	JPY	(95,876)	(312)	(79,445)	(55,211)	(69,864)	70,342	(140,151)	-0.55X	-0.99X
ES	EUR	(35,169)	(3.825)	(6,786)	24,090	71,978	147.318	(172,030)	-1.83X	-0.36X
<u></u>	GBP	(48,395)	(6,729)	(59,590)	(37,349)	(7,942)	49,216	(113,271)	-1.08X	-0.31X
CURRENCIES	AUD	(71,424)	897	(62,059)	(46,960)	(17,277)	77,969	(74,181)	-1.54X	-2.17X
×	CAD	(8,633)	(3,466)	(20,162)	(25,543)	(3,713)	78,001	(99,736)	-0.16X	-0.08X
5	MXN	34,066	(24,024)	41,374	29,590	53,210	117,131	(89,524)	-0.56X	0.40X
0	NZD	(35,031)	(1,983)	(29,197)	(19,740)	(9,766)	35,981	(35,412)	-1.44X	-2.23X
	CHF	(13,769)	2,650	(28,049)	(33,800)	(25,984)	10,064	(47,216)	0.95X	-0.07X
	CRUDE OIL	463,180	(19,526)	561,886	614,245	661,427	784,290	195,086	-2.53X	-0.13X
_	GOLD	(45,622)	(18,723)	(67,436)	(24,480)	65,424	286,921	(103,009)	-1.09X	-1.62X
	COPPER	357	(8,291)	2,641	16,944	29,007	67,602	(44,710)	-1.41X	-0.47X
-	Natural Gas	(5,693)	9,108	(49,348)	(69,025)	(86,392)	-	(218,444)	1.95X	1.30X
	RBOB Gasoline	89,086	(4,587)	104,503	101,847	92,648	114,862	29,519	-0.31X	0.84X
	ULSD Heating Oil	33,094	(4,841)	41,051	41,664	41,378	67,696	(23,640)	-0.54X	0.27X
	Silver	(8,744)	(3,093)	(15,664)	1,140	8,734	107,003	(30,158)	-0.69X	-1.52X
ES	Platinum	16,018	3,178	442	(385)	13,983	56,853	(11,540)	0.12X	-0.53X
E	Aluminum	163,475	(2,043)	159,128	161,735	157,727	168,292	122,356	0.55X	1.31X
ā	Nickel	42,230	(365)	42,658	44,005	37,006	47,708	13,508	0.60X	1.21X
COMMODITIES	Corn	75,573	(11,722)	24,393	84,823	68,999	373,443	(166.835)	0.04X	0.26X
۶.	Sovbeans	(68,748)	(35,395)	(53,339)	(8,068)	34,797	255,950	(113,144)	-1.03X	-1.26X
l Ö	Wheat	(30,779)	(15,361)	17,289	16,799	(23,016)		(143,292)	-0.15X	0.54X
0	Live Cattle	91,457	(6,168)	87,556	61,748	81,993	164,117	(695)	0.24X	0.25X
	Lean Hogs	35,381	8,543	17.225	6.072	23,503	90.653	(11,151)	0.42X	-0.19X
_	Sugar	82,914	15,013	(54,867)	(39,657)	(50,520)		(131,628)	2.29X	-0.04X
	Cotton	53,345	(2,771)	74,223	92,145	93,801	132,318	(28,816)	-1.94X	-0.65X
	Coffee	(30,358)	7,983	(82,408)	(68,729)	(56,065)		(106,651)	1.12X	-0.46X
	Cocoa	(19,235)	3,444	(7,735)	18,572	20,358	70,034	(43,846)	-1.52X	-1.05X
	Orange Juice	(6,248)	(730)	(614)	2,043	497	10,123	(6,248)	-1.99X	-2.13X

HEDGEYE TV

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### **Euro-Area Economic Data**

COUNTRY	Event	MONTH	SURVEY	ACTUAL	PRIOR REVISED
Ireland	Investec Services PMI Ireland	Oct		57.2	58.7
Ireland	Investec Composite PMI Ireland	Oct		56.1	58.4
Sweden	Swedbank/Silf PMI Services	Oct		56.3	56.6
UK	Markit/CIPS UK Services PMI	Oct	53.3	52.2	53.9
UK	Markit/CIPS UK Composite PMI	Oct	53.4	52.1	54.1
Eurozone	Sentix Investor Confidence	Nov	9.8	8.8	11.4

### Volatility

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TIME WINDOW SETTING:		TOTAL RETURN	IVOL PREMIUM	DISCOUNT				REALIZED VOLATILITY TRE			ENDS	S 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											
Consumer Discretionary Sector SPDR ETF	XLY US EQUITY	10.34%	<b>-17</b> %	- <b>16</b> %	11%	47%	-1.2	-1.2	25.2	142%	85%	20.9	36%	75%
Power Shares QQQ Trust ETF	QQQ US EQUITY	9.35%	-21%	-24%	-6%	38%	-1.0	-1.1	31.4	184%	92%	24.8	63%	85%
Health Care Sector SPDR ETF	<b>XLV US EQUITY</b>	9.16%	-9%	-11%	-13%	53%	-0.6	-0.8	20.4	194%	84%	18.5	74%	79%
Technology Sector SPDR ETF	XLK US EQUITY	8.58%	-15%	24%	22%	39%	-0.7	-0.9	31.8	197%	94%	27.1	82%	90%
Utilities Sector SPDR ETF	<b>XLU US EQUITY</b>	3.49%	<b>-9</b> %	- <b>12</b> %	-6%	-4%	-0.8	-0.8	18.5	33%	80%	16.8	25%	75%
SPDR S&P 500 ETF Trust	SPY US EQUITY	3.22%	<b>-17</b> %	- <b>18</b> %	6%	50%	-0.8	-1.0	20.5	236%	81%	17.0	86%	69%
I-Shares Russell 2000 ETF	IWM US EQUITY	1.89%	-10%	- <b>12</b> %	<b>29</b> %	<b>62</b> %	-0.9	-0.8	23.9	171%	80%	21.5	<b>51%</b>	65%
Consumer Staples Sector SPDR ETF	XLP US EQUITY	-1.15%	-12%	- <b>18</b> %	13%	<b>19</b> %	-0.6	-0.8	16.8	82%	83%	14.7	34%	78%
Vanguard Real Estate REIT ETF	VNQ US EQUITY	-2.80%	-15%	-22%	<b>-9</b> %	-13%	-0.8	-0.9	19.4	31%	66%	16.5	28%	53%
Financials Sector SPDR ETF	XLF US EQUITY	-4.31%	2%	-5%	<b>19</b> %	38%	-0.4	-0.3	21.8	95%	69%	22.2	43%	66%
Energy Sector SPDR ETF	<b>XLE US EQUITY</b>	-4.55%	0%	-3%	25%	37%	-0.2	-0.3	23.9	108%	67%	23.8	<b>51%</b>	<b>67</b> %
Industrials Sector SPDR ETF	XLI US EQUITY	-4.98%	-6%	-10%	30%	34%	-0.4	-0.7	22.0	133%	78%	20.7	64%	<b>72</b> %
Materials Sector SPDR ETF	<b>XLB US EQUITY</b>	- <b>9.67</b> %	-5%	-7%	44%	<b>16</b> %	-0.4	-0.6	22.6	82%	71%	21.4	<b>49</b> %	64%
Communication Services	XLC US EQUITY		-5%	-6%	23%	47%			29.4	149%	100%	27.9	60%	92%
INTERNATIONAL EQUITIES														
Euro Stoxx 50 Index	SX5E INDEX	-5.28%	12%	13%	46%	25%	0.1	-0.1	14.6	38%	29%	16.4	23%	32%
I-Shares MSCI Japan ETF	EWJ US EQUITY	-7.47%	-6%	-4%	4%	2%	-0.3	-0.6	19.1	<b>61</b> %	68%	17.9	49%	48%
I-Shares China Large-Cap ETF	FXI US EQUITY	-9.83%	-6%	-12%	4%	2%	-0.1	-0.6	30.2	44%	77%	28.4	33%	74%
I-Shares MSCI Emerging Markets ETF	EEM US EQUITY	-12.80%	<b>-11</b> %	-13%	7%	6%	-0.5	-0.7	27.8	55%	78%	24.8	31%	69%
CURRENCIES														
PowerShares US Dollar Index ETF	UUP US EQUITY	6.99%	<b>41</b> %	37%	39%	28%	1.6	1.6	5.1	-9%	10%	7.1	-1%	26%
Currency Shares Japanese Yen ETF	FXY US EQUITY	-0.83%	7%	13%	26%	21%	-0.2	0.0	6.4	18%	15%	6.8	5%	8%
Currency Shares British Pound ETF	FXB US EQUITY	-4.12%	8%	9%	12%	5%	0.0	0.1	9.4	2%	66%	10.2	4%	<b>67</b> %
Currency Shares Euro Trust ETF	FXE US EQUITY	-5.69%	24%	29%	24%	6%	1.6	0.9	5.8	-16%	8%	7.2	-1%	17%
COMMODITIES														
United States Natural Gas Fund ETF	UNG US EQUITY	14.71%	29%	25%	25%	24%	0.7	1.0	32.6	20%	37%	41.9	24%	57%
United States Oil Fund ETF	USO US EQUITY	10.82%	9%	2%	-5%	24%	0.4	0.2	27.2	30%	46%	29.7	14%	50%
PowerShares DB Agriculture Fund ETF	DBA US EQUITY	-5.28%	18%	26%	35%	31%	-0.4	-0.4	12.4	4%	49%	14.7	-6%	50%
SPDR Gold Shares ETF	GLD US EQUITY	-5.66%	-4%	-4%	4%	-3%	-0.7	-0.7	11.5	15%	26%	11.0	13%	12%
PowerShares DB Base Metals Fund ETF	DBB US EQUITY	-15.51%	19%	23%	25%	13%	-0.3	-0.3	18.4	-3%	47%	21.8	2%	47%
FIXED INCOME														
I-Shares IBOXX HY Corporate Bond ETF	HYG US EQUITY	0.87%	5%	1%	65%	-7%	-0.3	-0.4	4.4	64%	23%	4.7	85%	13%
I-Shares 7-10 Year Treasury Bond ETF	IEF US EQUITY	-3.51%	6%	362%	21%	34%	-0.5	-0.5	4.8	37%	24%	5.1	9%	16%
I-Shares IBOXX IG Corporate Bond ETF	LQD US EQUITY	-5.29%	21%	18%	16%	19%	0.6	0.2	4.2	9%	21%	5.1	11%	32%
I-Shares J.P. Morgan USD EM Bond ETF	EMB US EQUITY	-6.44%	39%	37%	35%	-4%	0.6	0.3	4.8	-23%	29%	6.7	12%	38%
I-Shares 20+ Year Treasury Bond ETF	TLT US EQUITY	-9.73%	1%	3%	-2%	8%	0.1	-0.1	10.6	34%	22%	10.8	26%	21%

### **U.S. Equities: Returns**



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U.S. EQUITIES	Ticker	D/D %	<b>W/W</b> %	1M%	3 <b>M</b> %	6M%	<b>Y/Y%</b>	WTD%	MTD%	YTD%
S&P 500 Index	SPX	-0.63%	2.42%	-6.15%	-4.13%	3.55%	5.57%	0.00%	0.42%	1.85%
Nasdaq 100 Index	NDX	-1.47%	1.65%	- <b>7.01%</b>	-5.82%	4.84%	11.47%	0.00%	-0.03%	8.89%
Dow Jones Industrial Average	INDU	-0.43%	2.36%	-5.09%	-0.75%	5.60%	7.83%	0.00%	0.62%	2.23%
Russell 2000 Index	RTY	0.19%	4.32%	<b>-6.01%</b>	- <b>7.49</b> %	0.09%	3.70%	0.00%	2.42%	0.81%
SPDR S&P 500 ETF Trust	SPY	0.59%	2.47%	-6.06%	-4.13%	3.53%	5.59%	2.47%	0.47%	1.88%
Consumer Discretionary Select Sector SPDR ETF	XLY	0.41%	4.41%	-4.53%	-3.48%	5.16%	17.33%	4.41%	2.46%	9.40%
Financials Select Sector SPDR ETF	XLF	0.08%	4.43%	-6.25%	-6.19%	-2.01%	-0.98%	4.43%	0.38%	-5.48%
Health Care Select Sector SPDR ETF	XLV	-0.62%	2.10%	-5.44%	-0.61%	11.08%	9.78%	2.10%	0.63%	7.96%
Technology Select Sector SPDR ETF	XLK	-1.95%	0.95%	- <b>7.81</b> %	-5.47%	3.59%	9.18%	0.95%	-0.81%	7.49%
Communication Services Sector SPDR ETF	XLC	-1.01%	<b>2.78</b> %	-5.05%	-6.28%			2.78%	-0.43%	
Consumer Staples Select Sector SPDR ETF	XLP	-0.52%	2.38%	3.03%	1.51%	12.52%	3.47%	2.38%	0.18%	-3.13%
Industrials Select SPDR ETF	XLI	-0.17%	2.74%	- 10.52%	- <b>6.41</b> %	-0.62%	-0.70%	2.74%	1.59%	- <b>6.18</b> %
Materials Select Sector SPDR ETF	XLB	-0.24%	6.10%	<b>-7.08</b> %	- <b>8.99</b> %	-5.48%	- <b>8.99</b> %	6.10%	2.57%	-10.85%
Energy Select Sector SPDR ETF	XLE	-0.25%	1.62%	- 12.45%	-10.21%	- <b>8.07</b> %	-1.63%	1.62%	0.60%	- <b>6.50</b> %
Utilities Select Sector SPDR ETF	XLU	0.56%	-0.41%	0.62%	-0.28%	3.65%	-3.03%	-0.41%	-1.01%	0.89%
Real Estate Select SPDR ETF	XLRE	-0.84%	1.46%	0.63%	-4.77%	3.17%	-1.63%	1.46%	-0.47%	-3.04%
I-Shares US Telecommunications ETF	IYZ	0.70%	4.92%	<b>-3.70</b> %	2.40%	6.01%	-3.64%	4.92%	1.38%	<b>-2.79</b> %
I-Shares Russell 2000 ETF	IWM	0.33%	4.42%	-5.89%	-7.45%	0.12%	3.86%	4.42%	2.65%	1.01%
I-Shares Russell 2000 Value ETF	IWN	0.41%	3.74%	-5.53%	-7.73%	-0.65%	-0.14%	3.74%	1.91%	<b>-1.82%</b>
I-Shares Russell 2000 Growth ETF	IWO	0.24%	5.07%	- <b>6.31%</b>	- <b>7.13</b> %	0.86%	7.44%	5.07%	2.98%	3.63%
I-Shares Russell 1000 ETF	IWB	0.59%	2.64%	-6.10%	-4.33%	3.25%	5.42%	2.64%	0.55%	1.65%
I-Shares Russell 1000 Value ETF	IWD	-0.23%	3.02%	-5.02%	- <b>3.81</b> %	1.94%	0.84%	3.02%	0.60%	- <b>2.84</b> %
I-Shares Russell 1000 Growth ETF	IWF	- 0.85%	2.29%	-7.13%	-4.86%	4.41%	9.83%	2.29%	0.40%	5.92%
Power Shares QQQ Trust ETF	999	-1.56%	1.63%	-7.13%	-5.94%	4.68%	11.36%	1.63%	-0.26%	8.74%

### **U.S. Equities: Returns**



#### The Macro Show

U.S. EQUITIES	Ticker	D/D %	<b>W/W%</b>	1M%	3 <b>M</b> %	6M%	Y/Y%	WTD%	MTD%	YTD%
Facebook	FB	-0.92%	3.43%	-5.35%	-15.43%	-13.60%	<b>-17.69%</b>	3.43%	-0.95%	-14.80%
Amazon	AMZN	0.00%	1.38%	- 12.77%	-8.65%	5.94%	50.91%	1.38%	4.23%	42.42%
Apple	AAPL	- <b>6.63</b> %	-4.08%	<b>-9.00%</b>	- <b>0.25</b> %	17.29%	24.32%	-4.08%	-5.20%	22.60%
Netflix	NFLX	-2.61%	3.09%	- 15.00%	-9.91%	-0.83%	56.11%	3.09%	2.43%	61.02%
Google	GOOG	-1.14%	-1.28%	-9.45%	-13.56%	3.33%	3.15%	-1.28%	-1.76%	1.09%
SPDR Dow Jones Industrial Average ETF Trust	DIA	0.50%	2.41%	-5.18%	- <b>0.76</b> %	5.59%	7.80%	2.41%	0.51%	2.05%
I-Shares Transportation Average ETF	IYT	0.04%	4.10%	- <b>8.21</b> %	-6.66%	0.93%	5.90%	4.10%	1.79%	-2.68%
SPDR OII & Gas Exploration & Production ETF	XOP	-1.63%	0.72%	-17.51%	<b>-13.86</b> %	- <b>6.97</b> %	2.49%	0.72%	0.30%	- <b>2.69</b> %
I-Shares Nasdaq Biotechnology ETF	IBB	0.03%	4.33%	-8.30%	-7.74%	6.73%	3.88%	4.33%	3.87%	1.25%
SPDR S&P Metals & Mining ETF	XME	1.31%	5.10%	-6.53%	-10.31%	- <b>9.64</b> %	-0.44%	5.10%	3.89%	- <b>12.68</b> %
VanEck Vectors Gold Miners ETF	GDX	0.31%	2.99%	4.69%	-7.23%	-13.33%	-12.68%	2.99%	3.70%	-15.53%
I-Shares US Home Construction ETF	ITB	-0.84%	4.66%	-6.65%	-15.04%	-17.73%	- <b>20.29</b> %	4.66%	2.25%	- <b>27.10</b> %
SPDR S&P Insurance ETF	KIE	-0.10%	<b>2.97</b> %	-6.46%	<b>-4.89</b> %	0.67%	<b>-1.89</b> %	<b>2.97</b> %	0.27%	<b>-1.89</b> %
SPDR S&P Regional Banking ETF	KRE	0.33%	5.35%	<b>-9.06</b> %	-12.00%	-10.85%	-3.68%	5.35%	1.32%	-7.05%
VanEck Vectors Semiconductor ETF	SMH	-1.59%	7.50%	- <b>7.87</b> %	-10.39%	<b>-1.87%</b>	<b>-4.86</b> %	7.50%	3.16%	-1.43%
SPDR S&P Retail ETF	XRT	0.79%	4.34%	-0.80%	-3.40%	8.01%	22.01%	4.34%	2.44%	6.88%
I-Shares US Broker-Dealers & Security Exchanges ETF	IAI	0.62%	5.57%	-2.99%	- <b>4.79</b> %	-5.23%	7.07%	5.57%	1.23%	<b>-1.78%</b>
I-Shares US OII Equipment & Services ETF	IEZ	0.10%	-1.47%	18.90%	-18.02%	-19.67%	-11.23%	-1.47%	0.61%	-17.93%
I-Shares Pharmaceuticals ETF	IHE	-0.61%	2.54%	- <b>5.62</b> %	-4.68%	10.65%	2.37%	2.54%	1.99%	0.69%
I-Shares US Medical Devices ETF	IHI	0.20%	3.44%	- <b>4.76</b> %	- <b>0.69</b> %	10.16%	21.56%	3.44%	1.70%	20.29%
Vanguard REIT ETF	VNQ	-0.83%	1.09%	-0.26%	- <b>6.07</b> %	2.08%	-5.52%	1.09%	-0.36%	-5.95%
SPDR Dow Jones REIT ETF	RWR	-1.32%	0.10%	-0.45%	-5.74%	2.40%	-2.22%	0.10%	- <b>0.96</b> %	-3.93%



#### U.S. Market Style Factor Performance (Total Return %)

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	SECURITY	TICKER	PRICE (\$)	DD %	5D %	1Mth %	3Mth %	6Mth %	<b>1Y</b> r %	MTD %	YTD %
	iShares Russell 1000 Value ETF	IWD US Equity	\$120.81	-0.23%	3.02%	-5.08%	-2.61%	2.69%	3.17%	0.60%	-1.09%
	Vanguard Value ETF	VTV US Equity	\$105.67	-0.18%	2.78%	-5.15%	-1.86%	4.52%	5.98%	0.48%	1.24%
VALUE	Alpha Architect Quantitative Value ETF	QVAL US Equity	\$29.30	0.10%	6.45%	-4.80%	-7.02%	-0.73%	9.24%	2.16%	-3.89%
	Invesco S&P 500 Pure Value ETF	<b>RPV US Equity</b>	\$65.53	0.00%	4.75%	-4.45%	-2.48%	0.91%	6.32%	1.14%	0.35%
	iShares Edge MSCI USA Value ETF	VLUE US Equity	\$82.90	-1.14%	2.90%	-6.05%	-2.93%	2.33%	6.32%	0.29%	0.82%
	iShares Edge MSCI USA Momentum ETF	MTUM US Equity	\$108.39	-0.69%	3.37%	-8.98%	-3.88%	2.65%	8.85%	1.04%	5.93%
	Invesco DWA Momentum ETF	PDP US Equity	\$53.19	-0.56%	2.80%	-9.54%	-7.08%	1.14%	5.18%	0.36%	3.10%
MOMENTUM	Alpha Architect Quantitative Momentum ETF	QMOM US Equity	\$28.77	-0.51%	4.27%	-13.02%	- <b>8.52%</b>	-2.13%	2.29%	1.03%	0.60%
	SPDR Russell 1000 Momentum ETF	ONEO US Equity	\$70.37	0.14%	4.17%	-7.31%	-5.81%	-0.45%	2.67%	1.24%	-2.22%
	Fidelity Momentum Factor ETF	FDMO US Equity	\$32.45	-0.69%	2.84%	-8.30%	-4.11%	2.14%	7.45%	0.39%	4.57%
	iShares Russell 1000 Growth ETF	IWF US Equity	\$142.65	-0.85%	2.29%	-8.45%	-4.37%	5.04%	11.01%	0.40%	6.85%
	Nasdaq 100 Index	QQQ US Equity	\$169.38	-1.56%	1.63%	-8.81%	-5.48%	5.08%	12.43%	-0.26%	9.35%
GROWTH	Invesco S&P 500 Pure Growth ETF	<b>RPG US Equity</b>	\$109.36	-0.49%	4.81%	-8.42%	-6.73%	0.09%	6.40%	1.42%	4.61%
	Vanguard Growth ETF	VUG US Equity	\$147.09	-1.10%	2.22%	-8.58%	-5.04%	3.67%	9.21%	0.44%	5.44%
	iShares North American Tech-Software ETF	IGV US Equity	\$183.21	-1.05%	3.36%	-9.05%	-3.45%	5.16%	17.35%	-0.03%	18.57%
	iShares Edge MSCI Min Vol USA ETF	USMV US Equity	\$54.80	-0.18%	1.82%	-3.94%	0.12%	7.57%	8.67%	0.13%	5.34%
LOW VOL &	Invesco S&P 500 Low Volatility ETF	SPLV US Equity	\$47.91	-0.40%	1.50%	-3.11%	-1.29%	4.89%	4.64%	-0.17%	2.13%
YIELD	Invesco S&P 500 High-Div Low-Vol ETF	SPHD US Equity	\$40.23	-0.67%	1.93%	-2.96%	-2.13%	4.50%	0.75%	-0.05%	-1.88%
THEED	Vanguard High Dividend Yield ETF	VYM US Equity	\$83.63	-0.31%	2.74%	-4.81%	-2.02%	3.99%	4.09%	0.44%	-0.11%
	iShares Select Dividend ETF	DVY US Equity	\$96.25	-0.15%	2.30%	-4.04%	-2.34%	2.35%	4.90%	0.40%	0.13%
	iShares Edge MSCI USA Quality Factor ETF	QUAL US Equity	\$83.95	-0.63%	2.84%	-7.52%	-2.69%	4.02%	7.37%	0.50%	2.61%
	Invesco S&P 500 Quality Factor ETF	SPHQ US Equity	\$30.69	-0.71%	3.09%	-6.60%	-1.23%	5.58%	7.02%	0.69%	1.98%
QUALITY	Fidelity U.S. Quality Factor ETF	FQAL US Equity	\$32.37	-0.65%	2.30%	-6.79%	-3.50%	4.26%	7.74%	0.00%	2.98%
	Barron's 400 ETF	<b>BFOR US Equity</b>	\$40.82	-0.34%	4.49%	-8.20%	-8.12%	-1.54%	2.17%	1.80%	-1.82%
	Vanguard U.S. Quality Factor ETF	VFQY US Equity	\$79.18	-0.17%	3.89%	-6.61%	-4.92%	2.80%	NA	0.59%	NA



### **S&P 500 Sector Performance & Dispersion**

The Macro Show

		TETOT	DETUDIO	2/1								
SECTOR PERFORMANCE	•											SECTOR DISPERSION DIVERGENCES
SECURITY	TICKER	PRICE (\$)	DD %	5D %	1Mth %	3Mth %	6Mth %	1Yr %	3Yr %	MTD %	YTD %	HIGHEST & LOWEST TTM Z-SCORE FACTOR READINGS
S&P 500 SPDR ETF Trust	SPY US Equity	/ \$270.63	1.07%	2.00%	<b>-6.91</b> %	- <b>3.37</b> %	3.24%	7.16%	11.35%	- <b>6.91</b> %	2.74%	DOWNSIDE DISPERSION SECTOR: XLF US Ed
Energy Sector SPDR ETF	XLE US Equity	\$67.16	0.61%	1.50%	-11.33%	- <b>12.32</b> %	- <b>7.76</b> %	1.64%	2.51%	- <b>11.33</b> %	<b>-5.11%</b>	(BULLISH CONSENSUS) BENCH: SPY US E
Materials Sector SPDR ETF	XLB US Equity	\$52.61	1.37%	4.16%	<b>-9.18</b> %	<b>-11.50%</b>	<b>-6.84</b> %	<b>-9.20</b> %	7.20%	<b>-9.18</b> %	<b>-11.93</b> %	% Premium to Bench (1W Avg.) == 10Yr Avg Premium %
Industrials Sector SPDR ETF	XLI US Equity	\$69.88	0.76%	0.84%	<b>-10.87</b> %	<b>-8.72</b> %	<b>-2.39</b> %	- <b>0.51</b> %	10.98%	- <b>10.87</b> %	<b>-6.46</b> %	3
Consumer Discretionary Sector SPDR E	TF XLY US Equity	\$105.38	<b>1.29</b> %	<b>1.72</b> %	<b>-10.10</b> %	<b>-5.01</b> %	<b>2.19</b> %	15.93%	10.74%	-10.10%	7.70%	§ 140%
Consumer Staples Sector SPDR ETF	XLP US Equity	\$55.01	<b>-0.94</b> %	0.47%	2.00%	3.41%	10.65%	6.51%	6.06%	2.00%	-1.33%	
Health Care Sector SPDR ETF	XLV US Equity	\$88.70	0.14%	1.62%	<b>-6.78</b> %	0.13%	8.65%	11.01%	9.19%	<b>-6.78</b> %	8.48%	
Financials Sector SPDR ETF	XLF US Equity	\$26.28	1.39%	<b>4.12</b> %	<b>-4.71%</b>	<b>-5.56</b> %	<b>-3.42</b> %	<b>0.49</b> %	12.38%	<b>-4.71%</b>	<b>-4.67</b> %	
Technology Sector SPDR ETF	XLK US Equity	\$69.30	2.38%	3.17%	<b>-8.00</b> %	<b>-1.95</b> %	6.61%	11.61%	18.54%	<b>-8.00</b> %	9.46%	E 60%
Telecommunications I-Shares ETF	IYZ US Equity	\$28.20	1.51%	<b>1.99</b> %	<b>-5.18</b> %	<b>2.68</b> %	4.25%	<b>-3.71</b> %	0.73%	- <b>5.18</b> %	- <b>2.16</b> %	
Utilities Sector SPDR ETF	XLU US Equity	\$53.69	<b>-1.18</b> %	- <b>2.79</b> %	<b>1.98</b> %	<b>2.62</b> %	6.00%	0.84%	10.74%	<b>1.98</b> %	4.54%	
Vanguard Real Estate ETF	VNQ US Equit	\$78.32	<b>-1.17%</b>	0.28%	<b>-2.93</b> %	<b>-3.05</b> %	5.37%	0.00%	3.98%	<b>-2.93</b> %	<b>-2.45</b> %	
SECTOR DISPERSION (R	ELATIVE V	OLATILITY	TRENDS)									Se Jan-16 Apr-16 Apr-16 Jan-17 Jan-17 Jan-17 Jan-18 Jan-18 Jan-18 Jan-18 Jan-18
TIME WINDOW SETTING:		IMPLIED DIS	PERSION (to	SPY)*	IVOL PREMI	UM/DISCOUI	т	VOLATILITY	PERCENTILE	READINGS		
PUT_IMP_VOL_30D		IVOL SPREAD	*Z-Score Based	I on Ratio Series	IVOL PREM %			RVOL	PERCENTILE	IVOL	PERCENTILE	UPSIDE DISPERSION SECTOR: XLK US EC
SECURITY	TICKER	Vol % Pts.	TTM Z-Score	3Yr Z-Score	IVOL / RVOL	TTM Z-Score	3Yr Z-Score	MM %	10YR	MM %	10YR	(BEARISH CONSENSUS) BENCH: SPY US Ed
S&P 500 SPDR ETF Trust	SPY US Equity				-7%	-0.5	-0.6	<b>229</b> %	81%	<b>112</b> %	75%	% Premium to Bench (1W Avg.) 10Yr Avg Premium %
Energy Sector SPDR ETF	XLE US Equity	7.5	-1.0	-1.5	<b>8</b> %	0.2	0.1	110%	69%	<b>71</b> %	74%	_ 240%
Materials Sector SPDR ETF	XLB US Equity	5.6	-0.5	-0.6	18%	0.5	0.4	66%	63%	75%	74%	8
Industrials Sector SPDR ETF	XLI US Equity	3.9	-0.7	-0.3	5%	-0.1	-0.3	<b>122</b> %	77%	<b>67</b> %	77%	-5 190%
Consumer Discretionary Sector SPDR E	TF XLY US Equity	1.5	-1.4	-0.9	-17%	-1.2	-1.2	<b>149</b> %	84%	56%	73%	ස් ද 140%
Consumer Staples Sector SPDR ETF	XLP US Equity	-2.2	-1.0	-0.9	-5%	-0.3	-0.5	88%	84%	<b>48</b> %	85%	E .
Health Care Sector SPDR ETF	XLV US Equity	0.8	-1.3	-1.3	- <b>2</b> %	-0.4	-0.5	188%	83%	80%	83%	
Financials Sector SPDR ETF	XLF US Equity	2.9	-1.6	-1.5	-1%	-0.5	-0.4	<b>94</b> %	70%	<b>41%</b>	64%	
Technology Sector SPDR ETF	XLK US Equity	15.7	0.7	1.3	10%	0.0	-0.1	<b>191</b> %	93%	<b>172</b> %	94%	
Telecommunications I-Shares ETF	IYZ US Equity	-0.1	-1.2	-0.9	-15%	-1.1	-0.5	154%	<b>81</b> %	36%	68%	9 -10%
Utilities Sector SPDR ETF	XLU US Equity	-1.4	-1.4	-1.4	-7%	-0.7	-0.7	39%	81%	26%	<b>78</b> %	Se Oct-11 Dec-11 Jun-15 Jun-15 Jun-11 Jun-11 Jun-11 Jun-11 Jun-11 Jun-11 Jun-11 Jun-13 Jun-13 Jun-13 Jun-13 Jun-13 Jun-13 Jun-13 Jun-14
Vanguard Real Estate ETF	VNQ US Equit	-0.8	-1.3	-1.4	-16%	-0.8	-1.0	44%	72%	38%	60%	

### **Global Volatility Indices**

EQUITIES	INDEX	INDEX Level	WW%	<b>MM%</b>	3M%	5Yr Percentile	10Yr Percentile
CBOE S&P 500 Volatility Index	VIX Index	19.51	- <b>19.45</b> %	68.04%	<b>67.61</b> %	88.2%	<b>68.4</b> %
CBOE S&P 500 Short-Term Volatility Index	VSTN Index*	21.67	- <b>27.89</b> %	100.65%	137.87%	90.1%	90.1%
CBOE Nasdaq 100 Volatility Index	VXN Index	26.65	-9.78%	52.29%	68.56%	95.4%	84.6%
CBOE Russell 2000 Volatility Index	<b>RVX</b> Index	23.89	- <b>9.92</b> %	50.63%	<b>57.90</b> %	<b>92.4</b> %	67.0%
CBOE Dow Jones Industrial Avg. Volatility Index	VXD Index	20.00	- <b>13.87</b> %	52.91%	48.81%	91.7%	76.6%
Deutsche Borse Euro Stoxx 50 Volatility Index	V2X Index	18.85	- <b>9.19</b> %	29.04%	40.69%	<b>54.2</b> %	32.9%
Euronext FTSE 100 Volatility Index	VFTSE Index	16.15	-1.66%	47.60%	38.41%	77.7%	52.2%
Euronext CAC 40 Volatility Index	VCAC Index	18.67	- <b>7.91</b> %	39.72%	44.70%	59.6%	39.7%
OSE Nikkei Stock Avg. Volatility Index	VNKY Index	25.29	-13.30%	48.33%	60.78%	<b>76.9</b> %	<b>63.9</b> %
HSE Hang Seng Volatility Index	VHSI Index	24.94	-10.32%	26.53%	23.65%	90.8%	77.1%
KSE KOSPI 200 Volatility Index	VKOSPI Index	18.11	-12.43%	53.34%	46.05%	93.1%	64.5%
CBOE Emerging Markets ETF Volatility Index	VXEEM Index*	27.72	-6.13%	31.87%	54.52%	91.0%	83.6%
CBOE Brazil ETF Volatility Index	VXEWZ Index*	40.05	-10.30%	-20.03%	22.44%	75.9%	<b>79.9</b> %
NSE Nifty 50 Volatility Index	<b>INVIXN</b> Index	18.23	-3.86%	0.62%	50.94%	83.1%	53.2%
COMMODITIES		INDEX Level	WW%	MM%	<b>3M%</b>	5Yr Percentile	10Yr Percentile
CBOE Crude Oil ETF Volatility Index	OVX Index	32.21	13.02%	14.87%	25.77%	56.4%	48.6%
CBOE Gold ETF Volatility Index	GVZ Index*	12.50	1.63%	11.51%	16.06%	<b>26.0</b> %	13.3%
CBOE Silver ETF Volatility Index	VXSLV Index*	20.80	3.84%	4.68%	18.99%	30.2%	<b>19.8</b> %
COMEX Copper 3Mth IVOL Index	IVOLCCOP Index	20.06	4.28%	-6.54%	-4.21%	<b>56.9</b> %	<b>33.9</b> %
CME Corn 3Mth IVOL Index	IVOLCORN Index	15.75	5.80%	-1.68%	-27.37%	8.5%	4.2%
CME Soybeans 3Mth IVOL Index	IVOLSOYB Index	17.10	13.76%	3.82%	- <b>16.95</b> %	31.0%	15.5%
CURRENCIES		INDEX Level	WW%	MM%	<b>3M%</b>	5Yr Percentile	10Yr Percentile
Deutsche Bank FX Volatility Index	CVIX Index	7.75	-1.77%	1.04%	8.09%	36.7%	20.4%
CBOE/CME Euro Volatility Index	EUVIX Index	7.45	-4.24%	-7.11%	9.72%	32.6%	17.7%
CBOE/CME Yen Volatility Index	JYVIX Index	7.48	-5.56%	-0.66%	10.98%	15.1%	9.3%
CBOE/CME Pound Volatility Index	<b>BPVIX</b> Index	10.09	-1.66%	1.71%	54.28%	<b>78.4</b> %	62.3%
FIXED INCOME		INDEX Level	WW%	MM%	<b>3M%</b>	5Yr Percentile	10Yr Percentile
CBOE CBOT 10Yr Treasury Note Volatility Index	TYVIX Index	4.58	7.01%	18.35%	24.12%	32.6%	21.7%
Merrill Lynch Treasury Option Volatility Estimate Index	<b>MOVE Index</b>	61.42	8.32%	22.33%	28.85%	41.7%	<b>26.7</b> %
CBOE 20+Yr Treasury Bond ETF Volatility Index	VXTLT Index	11.58	3.86%	8.33%	24.25%	38.6%	20.9%
CBOE 7-10Yr Treasury Note ETF Volatility Index	VXIEF Index**	5.94	9.39%	4.21%	-21.22%	<b>50.4</b> %	50.4%
CBOE High-Yield Corporate Bond ETF Volatility Index	VXHYG Index**	8.08	-13.30%	48.26%	59.06%	43.4%	43.4%

Note: \*Denotes Absense of 10yrs of data; \*\*Denotes Absense of 5yrs of data

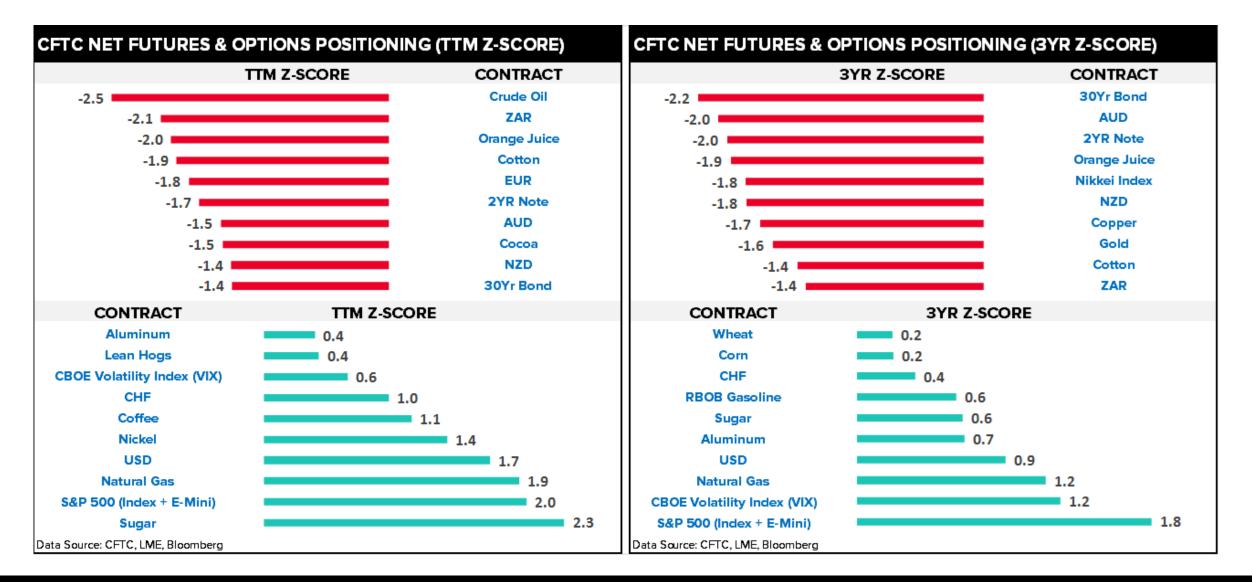


#### The Macro Show

### **CFTC Net Futures & Options Positioning**



The Macro Show November 5, 2018



DATA SOURCE: CFTC, LME BLOOMBERG