```
......
....
```

LEGAL

HEDGEYE TV The Macro Show

DISCLAIMER

Hedgeye Risk Management is a registered investment advisor, registered with the State of Connecticut. Hedgeye Risk Management is not a broker dealer and does not provide investment advice to individuals. This research does not constitute an offer to sell, or a solicitation of an offer to buy any security. This research is presented without regard to individual investment preferences or risk parameters; it is general information and does not constitute specific investment advice. This presentation is based on information from sources believed to be reliable. Hedgeye Risk Management is not responsible for errors, inaccuracies or omissions of information. The opinions and conclusions contained in this report are those of Hedgeye Risk Management, and are intended solely for the use of Hedgeye Risk Management's clients and subscribers. In reaching these opinions and conclusions, Hedgeye Risk Management and its employees have relied upon research conducted by Hedgeye Risk Management's employees, which is based upon sources considered credible and reliable within the industry. Hedgeye Risk Management is not responsible for the validity or authenticity of the information upon which it has relied.

TERMS OF USE

This report is intended solely for the use of its recipient. Redistribution or republication of this report and its contents are prohibited. For more detail please refer to the appropriate sections of the Hedgeye Services Agreement and the Terms of Use at <u>www.hedgeye.com</u>.



VIX







1 VIX

This part of the risk management exercise is what we call un-investable vol - front-month VIX went out at a 39.16 and that's a higher level than 2016. Everything equities (including Bond Proxies) goes down with VIX > 31 so the Fed is either going to get in the game here or not (probably not today!). المستقد المعالي المعالي المعادية بالمناصل في يقد المعالي و المعالي المعالي المحمد المحمد المحمد المحمد و المحمد

2) 10YR YIELDS

Best asset allocation for #Quad4 in both the USA and China = Treasuries, across the curve, and we're seeing that low-volatility asset class attract the world of flows this morning with UST 10YR Yield down another -7bps to 1.19%. In Sov Yield terms we're seeing a "credit risk" divergence between German and Italian Yields now too.

3 CRASHES

They happen when equity volatility breaks out and holds > 31, so the broadening red on your Global Equity screen includes a crash in Russian stocks, down another -6.8% overnight (-22% since Oil/Inflation peaked in JAN), Greek Stocks -5.6% and -22.3% in the last month, etc.

MACRO GRIND



Sovereign Bond Yields

The Macro Show February 28, 2020

Europe, Middle East & Africa 10-Year Gover

COUNTRY	YIELD	1 DAY	1 MONTH
Germany »	-0.60%	-6	-27
United Kingdom »	0.42%	-5	-13
France	-0.30%	-4	-22
Italy	1.15%	+8	+12
Spain	0.33%	+2	+2
Netherlands	-0.48%	-5	-23
Portugal	0.39%	+3	+6
Greece	1.34%	+14	+20
Switzerland	-0.89%	-3	-15



10-Year U.S. Treasury Yield





OVX Volatility Index – CBOE Crude Oil Index





The Macro Show February 28, 2020

Russian Trading System

\$RTSI Russian Trading System (RTS) Index (EOD) MOEX. @StockCharts.com 27-Feb-2020 Open 1438.28 High 1443.93 Low 1381.20 Close 1386.20 Chg -75.02 (-5.13%) -- \$RTSI (Daily) 1386.20 mil Volume undef 36.20 28 Nov Dec Feb 10



German DAX Composite

The Macro Show February 28, 2020



DATA SOURCE: STOCKCHARTS

HEDGEYE TV

KOSPI South Korea Seoul Composite





S&P 500 Index Sales Growth & Earnings Growth

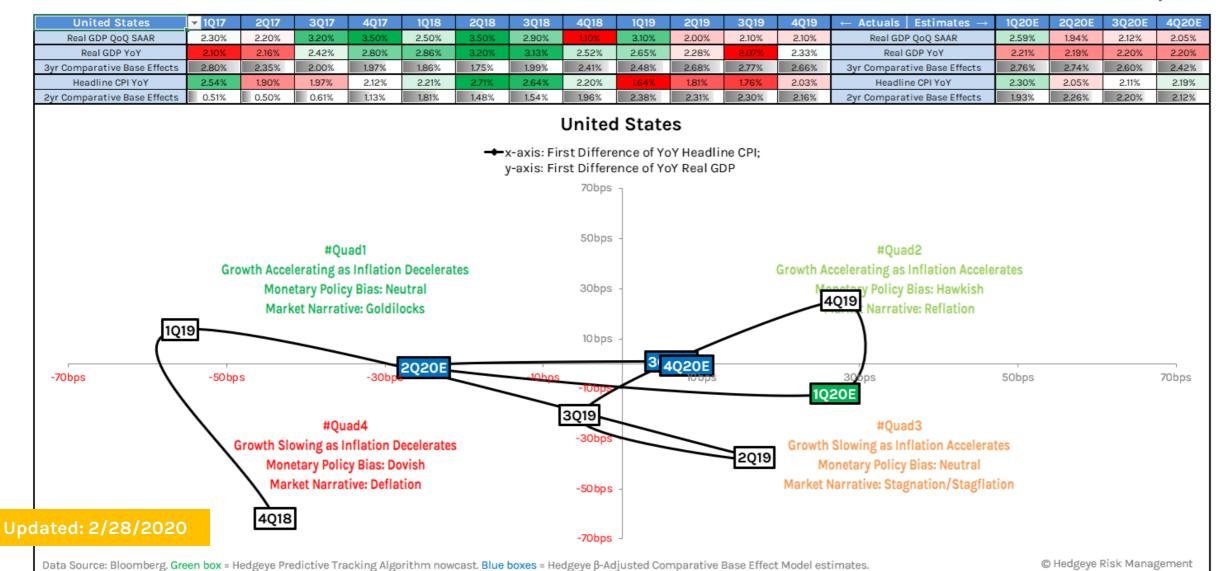




Our Research Process is <u>REPEATABLE</u>

The Macro Show

February 28, 2020



DATA SOURCE: BLOOMBERG



The Macro Show

February 28, 2020

What Works In Each Quad?

Updated: 2/24/2020

Hypothel Long-O Balance ETF Portfol XLK 6.0% XLY 6.0% XLI 6.0% XLI - XLP - XLP - XLP - XLP - XLV - SPHB 6.0% SPHV - SPHB 6.0% MDY 6.0% SPLV - DEF - SPHD - DIA - CWB 9.0% HYG 9.0% SIZD 9.0%	Market Neutral lio* Portfolio** % 6.0% % 6.0% % 6.0% % 6.0% *	Exposure Tech Consumer Discretionary Industrials Energy Telecom Utilities Consumer Staples REITS Momentum Growth Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles Preferreds	ETF XLK XLY XLI IYZ XLU XLP VNQ MTUM IWF IWM SPHB SPHV IWD SPHD DEF BIZD CWB PFF	Hypothetical Long-Only Balanced Portfolio* 6.0% 6.0% 6.0% 7 - - - - - - - - - - - - - - - - - -	Hypothetical Long-Short Market Neutral Portfolio** 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 6.0% 6.0% 6.0% 6.0% 6.0% 6.0% 6.0% -5.4%-5.4% -5.4% -5.4% -5.4% -5.4% -5.4%-5.4% -5.4% -5.4% -5.4%-5.4% -5.4% -5.4%-5.4% -5.4% -5.4%-5.4% -5.4% -5.4%-5.4% -5.4% -5.4%-5.4% -5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4% -5.4%-5.4%-5.4% -5.4%-5.4%-5.4% -5.4%-5.4%-5.4%-	Exposure Utilities Tech Energy REITS Financials Materials Telecom Consumer Staples Secular Growers Low Beta Quality Growth Small Caps Dividend Yield Value Cyclicals Munis Long Duration Treasuries	ETF XLU XLK XLE VNQ XLF XLP QQQ SPLV QUAL IWF IWM SPHD IWM IWM IWM	Hypothetical Long-Only Balanced Portfolio* 6.0% 6.0% 6.0% 6.0% 6.0% 6.0% 6.0% 6.0%	Hypothetical Long-Short Market Neutral Portfolio** 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 6.0% 6.0% 6.0% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% 10.0%	Exposure Consumer Staples Health Care REITS Utilities Tech Energy Industrials Financials Low Beta Dividend Yield Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries Medium Duration Treasuries	ETF XLP XLV VNQ XLU XLK XLF XLF SPLV SPHD DEF QUAL MTUM SPHB IWF QQQ TLT IEF	Hypothetical Long-Only Balanced Portfolio* 4.5% 4.5% 4.5% - - - - - - - - - - - - - - - - - - -	Hypothetical Long-Short Market Neutral Portfolio** 4.5% 4.5% 4.5% -4.1% -4.1% -4.1% -4.1% 4.5% 4.5% 4.5% 4.5% 4.5% 4.5% -4.1% -4.1% -4.1% -4.1% -4.1% -4.1% -4.1% -0.0% 10.0%
XLY 6.0% XLI 6.0% XLB 6.0% XLU - XLP - XLE - XLV - SPHB 6.0% MDY 6.0% MDY 6.0% SPLV - DEF - DIA - CWB 9.0% SKLN 9.0% SIZD 9.0%	% 6.0% % 6.0% -5.4% -5.4% -5.4% -5.4% -5.4% -6.0% % 6.0% % 6.0% ~5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% % 9.0% % 9.0%	Consumer Discretionary Industrials Energy Telecom Utilities Consumer Staples REITS Momentum Growth Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	XLY XLI XLE YLU XLU VNQ MTUM IWF IWM SPHB SPLV IWD SPHD DEF BIZD CWB	6.0% 6.0% - - - - - - - - - - - - - - - - - - -	6.0% 6.0% -5.4% -5.4% -5.4% -5.4% 6.0% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 9.0%	Tech Energy REITS Financials Materials Telecom Consumer Staples Secular Growers Low Beta Quality Growth Small Caps Dividend Yield Value Cyclicals Munis	XLK XLE VNQ XLF XLB IYZ XLP QQQ QUAL IWF IWM SPHD IWM IWD	6.0% 6.0% 6.0% - - - - - - - - - - - - - - - - - - -	6.0% 6.0% -5.4% -5.4% -5.4% -5.4% 6.0% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 10.0%	Health Care REITS Utilities Tech Energy Industrials Financials Low Beta Dividend Yield Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	XLV VNQ XLU XLK XLF SPLV SPLV SPLV SPHD DEF QUAL MTUM SPHB IWF QQQ TLT	4.5% 4.5% - - - - - - - - - - - - - - - - - - -	4.5% 4.5% 4.5% 4.5% -4.1% -4.1% -4.1% 4.5% 4.5% 4.5% 4.5% 4.5% -4.1% -4.1% -4.1% 10.0%
XLI 6.0% XLB 6.0% XLU - XLP - XLE - XLV - SPHB 6.0% ITUM 6.0% IWN 6.0% SPHB 6.0% SPLV - DEF - DIA - CWB 9.0% HYG 9.0% BIZD 9.0%	% 6.0% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.0% % 9.0% % 9.0%	Industrials Energy Telecom Utilities Consumer Staples REITS Momentum Growth Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	XUI XLE IYZ XLD VNQ MTUM IWF IWM SPHB SPLV IWD SPHD DEF BIZD CWB	6.0% 6.0% - - - - - - - - - - - - -	6.0% 6.0% -5.4% -5.4% 6.0% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 9.0%	Energy REITS Financials Materials Telecom Consumer Staples Secular Growers Low Beta Quality Growth Small Caps Dividend Yield Value Cyclicals Munis	XLE VNQ XLF XLB IYZ XLP QQQ SPLV QUAL IWF IWM SPHD IWD IWN	6.0% 6.0% - - - - - - - - - - - - - - - - - - -	6.0% 6.0% -5.4% -5.4% 6.0% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% -5.4% 10.0%	REITS Utilities Tech Energy Industrials Financials Low Beta Dividend Yield Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	VNQ XLU XLK XLE XLI SPLV SPHD DEF QUAL MTUM SPHB IWF QQQ TLT	4.5% 4.5% - - - 4.5% 4.5% 4.5% 4.5% - - - - - - - - - - - - -	4.5% 4.5% -4.1% -4.1% 4.1% 4.5% 4.5% 4.5% 4.5% -4.1% -4.1% -4.1% 10.0%
XLB 6.0% XLU - XLP - XLE - SPHB 6.0% ITUM 6.0% SPHB 6.0% SPHD - DEF - DIA - CWB 9.0% HYG 9.0% BIZD 9.0%	% 6.0% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% % 6.0% % 6.0% * 6.0% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% -5.4% % 9.0% % 9.0% % 9.0%	Energy Telecom Utilities Consumer Staples REITS Momentum Growth Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	XLE IYZ XLU XLP VNQ MTUM IWF IWM SPHB SPHD SPHD DEF BIZD CWB	6.0% - - - - - - 6.0% 6.0% 6.0% - - - - - - - - - - - - - - - - - - -	6.0% -5.4% -5.4% -5.4% 6.0% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 9.0%	REITS Financials Materials Telecom Consumer Staples Secular Growers Low Beta Quality Growth Small Caps Dividend Yield Value Cyclicals Munis	VNQ XLF XLB IYZ XLP QQQ SPLV QUAL IWF IWM SPHD IWD IWD IWN	6.0% - - - - - - - - - - - - - - - - - - -	6.0% -5.4% -5.4% -5.4% 6.0% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 10.0%	Utilities Tech Energy Industrials Financials Low Beta Dividend Yield Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	XLU XLK XLE XLI SPLV SPHD DEF QUAL MTUM SPHB IWF QQQ TLT	4.5% - - - 4.5% 4.5% 4.5% - - - - - - - - - - - - - - - - - - -	4.5% -4.1% -4.1% -4.1% 4.5% 4.5% 4.5% -4.1% -4.1% -4.1% 10.0%
XLU - XLP - XLE - XLV - SPHB 6.0% ITUM 6.0% ITUM 6.0% SPLV - DEF - DIA - CWB 9.0% SKLN 9.0% SIZD 9.0%	-5.4% -5.4% -5.4% -5.4% & 6.0% & 6.0% & 6.0% & 6.0% & 6.0% -5.4% -5.4% -5.4% -5.4% & 9.0% & 9.0%	Telecom Utilities Consumer Staples REITS Momentum Growth Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	IYZ XLU XLP VNQ MTUM IWF IWM SPHB SPLV IWD SPHD DEF BIZD CWB	- - - - - - - - - - - - - - - - - - -	-5.4% -5.4% -5.4% -5.4% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 9.0%	Financials Materials Telecom Consumer Staples Secular Growers Low Beta Quality Growth Small Caps Dividend Yield Value Cyclicals Munis	XLF XLB IYZ XLP QQQ SPLV QUAL IWF IWM SPHD IWD IWN MUB	- - - 6.0% 6.0% 6.0% - - - - - - - - - - - - - - - - - - -	-5.4% -5.4% -5.4% -5.4% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 10.0%	Tech Energy Industrials Financials Low Beta Dividend Yield Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	XLK XLE XLI SPLV SPHD DEF QUAL MTUM SPHB IWF QQQ TLT	- - - 4.5% 4.5% 4.5% - - - - - - - - - - - - - - - - - - -	-4.1% -4.1% -4.1% 4.5% 4.5% 4.5% 4.5% -4.1% -4.1% -4.1% 10.0%
XLP - XLE - XLV - SPHB 6.0% IVM 6.0% IWN 6.0% SPLV - DEF - DIA - CWB 9.0% SKLN 9.0% SIZD 9.0%	-5.4% -5.4% -5.4% & 6.0% & 6.0% & 6.0% & 6.0% -5.4% -5.4% -5.4% -5.4% & 9.0% & 9.0%	Utilities Consumer Staples REITS Momentum Growth Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	XLU XLP VNQ MTUM IWF IWM SPHB SPLV IWD SPHD DEF BIZD CWB	- - - - - - - - - - - - - - - - - -	-5.4% -5.4% 6.0% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 9.0%	Materials Telecom Consumer Staples Secular Growers Low Beta Quality Growth Small Caps Dividend Yield Value Cyclicals Munis	XLB IYZ XLP QQQ SPLV QUAL IWF IWM SPHD IWD IWN IWN	- - - 6.0% 6.0% 6.0% - - - - - - - - - - - - - - - - - - -	-5.4% -5.4% 6.0% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% -5.4% 10.0%	Energy Industrials Financials Low Beta Dividend Yield Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	XLE XLI XLF SPLV SPHD DEF QUAL MTUM SPHB IWF QQQ TLT	- - 4.5% 4.5% 4.5% - - - - - - - - - - - - - - - - - - -	-4.1% -4.1% 4.5% 4.5% 4.5% 4.5% -4.1% -4.1% -4.1% 10.0%
XLE - XLV - SPHB 6.0% ITUM 6.0% IWN 6.0% MDY 6.0% SPLV - DEF - DIA - CWB 9.0% SKLN 9.0% SIZD 9.0%	-5.4% -5.4% % 6.0% % 6.0% % 6.0% -5.4% -5.4% -5.4% -5.4% % 9.0% % 9.0%	Consumer Staples REITS Momentum Growth Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	XLP VNQ MTUM IWF IWM SPHB SPLV IWD SPHD DEF BIZD CWB	- 6.0% 6.0% 6.0% - - - - - - - - - - - - - - - - - - -	-5.4% -5.4% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 9.0%	Telecom Consumer Staples Secular Growers Low Beta Quality Growth Small Caps Dividend Yield Value Cyclicals Munis	IYZ XLP QQQ SPLV QUAL IWF IWM SPHD IWD IWN WUB	- 6.0% 6.0% 6.0% - - - - - - - - - - - -	-5.4% -5.4% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% -5.4% 10.0%	Industrials Financials Low Beta Dividend Yield Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	XLI XLF SPLV SPHD DEF QUAL MTUM SPHB IWF QQQ TLT	- 4.5% 4.5% 4.5% - - - - - - - - - - - - - - - - - - -	-4.1% -4.1% 4.5% 4.5% 4.5% -4.1% -4.1% -4.1% 10.0%
XLV - SPHB 6.0% ITUM 6.0% IWN 6.0% SPLV - DEF - DIA - CWB 9.0% HYG 9.0% BXLN 9.0% BIZD 9.0%	-5.4% % 6.0% % 6.0% % 6.0% -5.4% -5.4% -5.4% -5.4% % 9.0% % 9.0%	REITS Momentum Growth Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	VNQ IWF IWM SPHB SPLV IWD SPHD DEF BIZD CWB	- 6.0% 6.0% 6.0% - - - - - - 9.0%	-5.4% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 9.0%	Consumer Staples Secular Growers Low Beta Quality Growth Small Caps Dividend Yield Value Cyclicals Munis	XLP QQQ SPLV QUAL IWF IWM SPHD IWD IWD IWN	- 6.0% 6.0% 6.0% - - - - - - -	-5.4% 6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 10.0%	Financials Low Beta Dividend Yield Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	XLF SPLV SPHD DEF QUAL MTUM SPHB IWF QQQ TLT	- 4.5% 4.5% 4.5% - - - - - - - - - - - - - - - - - - -	-4.1% 4.5% 4.5% 4.5% -4.1% -4.1% -4.1% 10.0%
SPHB 6.0% ITUM 6.0% IWN 6.0% SPLV 6.0% DEF - DIA - CWB 9.0% HYG 9.0% SKLN 9.0% BIZD 9.0%	% 6.0% % 6.0% % 6.0% % 6.0% -5.4% -5.4% -5.4% -5.4% % 9.0% % 9.0%	Momentum Growth Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	MTUM IWF IWM SPHB SPLV IWD SPHD DEF BIZD CWB	6.0% 6.0% 6.0% - - - 9.0%	6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 9.0%	Secular Growers Low Beta Quality Growth Small Caps Dividend Yield Value Cyclicals Munis	QQQ SPLV QUAL IWF IWM SPHD IWD IWD IWN MUB	6.0% 6.0% 6.0% - - - - 10.0%	6.0% 6.0% 6.0% -5.4% -5.4% -5.4% 10.0%	Low Beta Dividend Yield Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	SPLV SPHD DEF QUAL MTUM SPHB IWF QQQ TLT	4.5% 4.5% 4.5% - - - - - 10.0%	4.5% 4.5% 4.5% -4.1% -4.1% -4.1% -4.1% 10.0%
ITUM 6.0% IWN 6.0% MDY 6.0% SPLV - DEF - DIA - CWB 9.0% HYG 9.0% SKLN 9.0% BIZD 9.0%	% 6.0% % 6.0% -5.4% -5.4% -5.4% -5.4% -5.4% 9.0% % 9.0%	Growth Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	IWF IWM SPHB SPLV IWD SPHD DEF BIZD CWB	6.0% 6.0% - - - - 9.0%	6.0% 6.0% 6.0% -5.4% -5.4% -5.4% -5.4% 9.0%	Low Beta Quality Growth Small Caps Dividend Yield Value Cyclicals Munis	SPLV QUAL IWF IWM SPHD IWD IWN MUB	6.0% 6.0% - - - - 10.0%	6.0% 6.0% -5.4% -5.4% -5.4% -5.4% -5.4% 10.0%	Dividend Yield Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	SPHD DEF QUAL MTUM SPHB IWF QQQ TLT	4.5% 4.5% - - - - 10.0%	4.5% 4.5% 4.5% -4.1% -4.1% -4.1% -4.1% 10.0%
IWN 6.0% MDY 6.0% SPLV - DEF - DIA - CWB 9.0% HYG 9.0% SKLN 9.0% BIZD 9.0%	% 6.0% ~5.4% -5.4% ~5.4% -5.4% ~5.4% -5.4% % 9.0% % 9.0% % 9.0%	Small Caps High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	IWM SPHB SPLV IWD SPHD DEF BIZD CWB	6.0% 6.0% - - - - 9.0%	6.0% 6.0% -5.4% -5.4% -5.4% -5.4% 9.0%	Quality Growth Small Caps Dividend Yield Value Cyclicals Munis	QUAL IWF IWM SPHD IWD IWN MUB	6.0% 6.0% - - - - 10.0%	6.0% 6.0% -5.4% -5.4% -5.4% -5.4% 10.0%	Defensives Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	DEF QUAL MTUM SPHB IWF QQQ TLT	4.5% 4.5% - - - - 10.0%	4.5% 4.5% -4.1% -4.1% -4.1% -4.1% 10.0%
MDY 6.0% SPLV - DEF - DIA - CWB 9.0% HYG 9.0% SKLN 9.0% BIZD 9.0%	% 6.0% -5.4% -5.4% -5.4% -5.4% -5.4% 9.0% % 9.0% % 9.0%	High Beta Low Beta Value Dividend Yield Defensives BDCs Convertibles	SPHB SPLV IWD SPHD DEF BIZD CWB	6.0% - - - - 9.0%	6.0% -5.4% -5.4% -5.4% -5.4% 9.0%	Growth Small Caps Dividend Yield Value Cyclicals Munis	IWF IWM SPHD IWD IWN MUB	6.0% - - - - 10.0%	6.0% -5.4% -5.4% -5.4% -5.4% 10.0%	Quality Momentum High Beta Growth Secular Growers Long Duration Treasuries	QUAL MTUM SPHB IWF QQQ TLT	4.5% - - - - 10.0%	4.5% -4.1% -4.1% -4.1% -4.1% 10.0%
SPLV - DEF - SPHD - DIA - CWB 9.0% HYG 9.0% BKLN 9.0% BIZD 9.0%	-5.4% -5.4% -5.4% -5.4% % 9.0% % 9.0%	Low Beta Value Dividend Yield Defensives BDCs Convertibles	SPLV IWD SPHD DEF BIZD CWB	- - - - 9.0%	-5.4% -5.4% -5.4% -5.4% 9.0%	Small Caps Dividend Yield Value Cyclicals Munis	IWM SPHD IWD IWN MUB	- - - 10.0%	-5.4% -5.4% -5.4% -5.4% 10.0%	Momentum High Beta Growth Secular Growers Long Duration Treasuries	MTUM SPHB IWF QQQ TLT	- - - - 10.0%	-4.1% -4.1% -4.1% -4.1% 10.0%
DEF - SPHD - DIA - CWB 9.0% HYG 9.0% SKLN 9.0% BIZD 9.0%	-5.4% -5.4% -5.4% % 9.0% % 9.0% % 9.0%	Value Dividend Yield Defensives BDCs Convertibles	IWD SPHD DEF BIZD CWB	- - - 9.0%	-5.4% -5.4% -5.4% 9.0%	Dividend Yield Value Cyclicals Munis	SPHD IWD IWN MUB	- - - 10.0%	-5.4% -5.4% -5.4% 10.0%	High Beta Growth Secular Growers Long Duration Treasuries	SPHB IWF QQQ TLT	- - - 10.0%	-4.1% -4.1% -4.1% 10.0%
SPHD - DIA - CWB 9.0% HYG 9.0% SKLN 9.0% BIZD 9.0%	-5.4% -5.4% % 9.0% % 9.0% % 9.0%	Dividend Yield Defensives BDCs Convertibles	SPHD DEF BIZD CWB	- - 9.0%	-5.4% -5.4% 9.0%	Value Cyclicals Munis	IWD IWN MUB	- - 10.0%	-5.4% -5.4% 10.0%	Growth Secular Growers Long Duration Treasuries	IWF QQQ TLT	- - 10.0%	-4.1% -4.1% 10.0%
DIA - CWB 9.0% HYG 9.0% SKLN 9.0% BIZD 9.0%	-5.4% % 9.0% % 9.0% % 9.0%	Defensives BDCs Convertibles	DEF BIZD CWB	- 9.0%	-5.4% 9.0%	Cyclicals Munis	IWN MUB	- 10.0%	-5.4% 10.0%	Secular Growers Long Duration Treasuries	QQQ TLT	- 10.0%	-4.1% 10.0%
CWB 9.0% HYG 9.0% 3KLN 9.0% BIZD 9.0%	% 9.0% % 9.0% % 9.0%	BDCs Convertibles	BIZD CWB	9.0%	9.0%	Munis	MUB	10.0%	10.0%	Long Duration Treasuries	TLT	10.0%	10.0%
HYG 9.0% 3KLN 9.0% 3IZD 9.0%	% 9.0% % 9.0%	Convertibles	CWB										
3KLN 9.0% 3IZD 9.0%	% 9.0%			9.0%	9.0%	Long Duration Treasuries	TLT	10.0%	10.0%	Medium Duration Treasuries	IEF	10.0%	10.0%
BIZD 9.0%		Preferreds	PEE							Medium Duración medsuries			
	% 9.0%			9.0%	9.0%	TIPS	TIP	10.0%	10.0%	Munis	MUB	10.0%	10.0%
		Leveraged Loans	BKLN	9.0%	9.0%	Investment Grade Credit	LQD	10.0%	10.0%	MBS	MBB	10.0%	10.0%
TIP -	-8.1%	Long Duration Treasuries	TLT	-	-8.1%	BDCs	BIZD	-	-9.0%	Convertibles	CWB	-	-9.0%
SHY -	-8.1%	Munis	MUB	-	-8.1%	Preferreds	PFF	-	-9.0%	TIPS	TIP	-	-9.0%
MBB -	-8.1%	Investment Grade Credit	LQD	-	-8.1%	Convertibles	CWB	-	-9.0%	Leveraged Loans	BKLN	-	-9.0%
IEF -	-8.1%	Medium Duration Treasuries	IEF	-	-8.1%	Leveraged Loans	BKLN	-	-9.0%	High Yield Credit	HYG	-	-9.0%
FXE 12.0%	% 12.0%	EM FX	CEW	12.0%	12.0%	G10 FX	UDN	8.0%	8.0%	DXY	UUP	12.0%	12.0%
UUP -	-10.8%	DXY	UUP	-	-10.8%	EM FX	CEW	-	-7.2%	EUR/USD	FXE	-	-10.8%
JJC 4.0%	4.0%	Crude Oil	USO	4.0%	4.0%	Crude Oil	USO	4.0%	4.0%	Gold	GLD	12.0%	12.0%
DBA -	-3.6%	Agriculture	DBA	-	-3.6%	Base Metals	DBB	-	-3.6%	Crude Oil	USO	-	-10.8%
Fixed Incom	ne	Equities	Eip	xed Income		Equities		Fixed Income		Equities	= Fi	xed Income	
		•			al Accesto	•			Deel Accete	•			
4	48%	12% 36%	4%	48%		40%	4%	48	%	12%		36%	
	E 12.0 P - C 4.09 A - Fixed Incor Commoditi	E 12.0% 12.0% P10.8% C 4.0% 4.0% A3.6% Fixed Income Commodities/Real Assets 48%	E 12.0% EM FX IP - -10.8% DXY C 4.0% Crude Oil Agriculture A - -3.6% Agriculture Fixed Income Equities Currencies Commodities/Real Assets - Currencies 48% 48%	E 12.0% 12.0% EM FX CEW IP10.8% DXY UUP C 4.0% 4.0% Crude Oil USO A3.6% Agriculture DBA = Fixed Income = Equities = Fix = Commodities/Real Assets = Currencies = Cc 43% 48%	E 12.0% EM FX CEW 12.0% IP - -10.8% DXY UUP - C 4.0% Crude Oil USO 4.0% A - -3.6% Agriculture DBA - = Fixed Income • Equities • Fixed Income • Equities • Fixed Income • Commodities/Real Assets • Currencies = Commodities/Real 48% 48% 48%	E 12.0% EM FX CEW 12.0% 12.0% IP - -10.8% DXY UUP - -10.8% C 4.0% 4.0% Crude Oil USO 4.0% 4.0% C 4.0% Agriculture DBA - -3.6% Fixed Income • Equities • Fixed Income • Currencies • Commodities/Real Assets Commodities/Real Assets • Currencies • Commodities/Real Assets 48%	E 12.0% 12.0% EM FX CEW 12.0% 12.0% G10 FX IP - -10.8% DXY UUP - -10.8% EM FX C 4.0% 4.0% Crude 0il USO 4.0% 4.0% Crude 0il A - -3.6% Agriculture DBA - -3.6% Base Metals = Fixed Income • Equities • Equities • Fixed Income • Equities • Currencies • Currencies = Commodities/Real Assets • Currencies • Currencies • Currencies • Currencies 48% 48% 48% 48% 40%	E 12.0% I2.0% EM FX CEW 12.0% 12.0% G10 FX UDN IP - -10.8% DXY UUP - -10.8% EM FX CEW C 4.0% 4.0% Crude 0il USO 4.0% 4.0% Crude 0il USO A - -3.6% Agriculture DBA - -3.6% Base Metals DBB = Fixed Income • Equities • Fixed Income • Equities • Currencies • Currenc	E 12.0% 12.0% EM FX CEW 12.0% Gio FX UDN 8.0% IP - -10.8% DXY UUP - -10.8% EM FX CEW - C 4.0% 4.0% Crude Oil USO 4.0% Crude Oil USO 4.0% A - -3.6% Agriculture DBA - -3.6% Base Metals DBB - = Fixed Income • Equities • Fixed Income • Equities • Fixed Income • Currencies • Commodities/Real Assets • Currencies = Commodities/ 48% 48% 48% 48% 40% 48% 40% 48%	E 12.0% 12.0% Gi0 FX UDN 8.0% 8.0% IP - -10.8% DXY UIP - -10.8% EM FX CEW - -7.2% C 4.0% 4.0% Crude 0il USO 4.0%	E 12.0% 12.0% EM FX CEW 12.0% 12.0% GTO FX UDN 8.0% 8.0% DXY IP - -10.8% DXY UUP - -10.8% EM FX CEW - -7.2% EUR/USD C 4.0% - -3.6% Agriculture DBA - -3.6% Base Metals DBB - -3.6% Gold a - -3.6% Agriculture DBA - -3.6% Base Metals DBB - -3.6% Crude Oil • Fixed Income • Equities • Fixed Income • Equities • Fixed Income • Equities • Equities • Currencies • Curencies • C	E 12.0% 12.0% 12.0% 12.0% Gi0 FX UDN 8.0% 8.0% DXY UUP IP - -10.8% DXY UUP - -10.8% EM FX CEW - -7.2% EUR/USD FXE C 4.0% Crude 0il USO 4.0% Crude 0il USO 4.0% Crude 0il USO 4.0% Gold GLD A - -3.6% Agriculture DBA - -3.6% Base Metals DBB - -3.6% Crude 0il USO • Fixed Income • Equities • Fixed Income • Equities • Fixed Income • Equities • Equities • Equities • Currencies • Currenci	E 12.0% 12.0% EM FX CEW 12.0% GO FX UDN 8.0% 8.0% DXY UUP 12.0% IP - -10.8% DXY UUP - -10.8% EM FX CEW - -7.2% EUR/USD FXE -

DATA SOURCE: *For illustrative purposes only. Long-short portfolio assumes a target gross exposure of 200% and target net exposure of 10%.



The Macro Show

February 28, 2020

Organic Improvement + Easier Comps 9% 9% 4% 3% 2.79 2% PHS: YoY % 0% -1% -2% -1% -3% -5% -6% Rate Shock **Rates Falling Growth Slowing** -11% თ ຄ ຄ <u>തെ ത</u> 8 თ თ Jan O Nov ĝ

New Home Sales

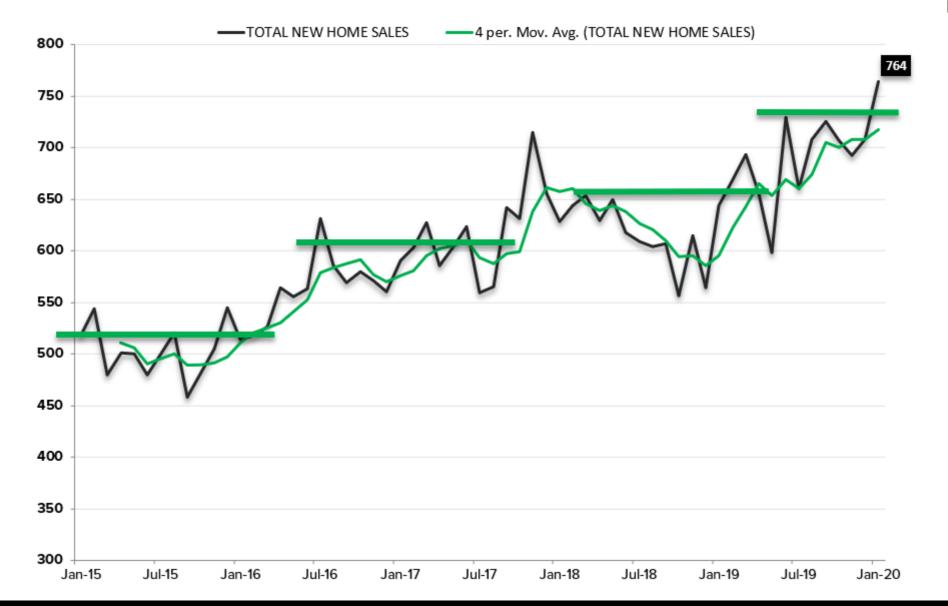
DATA SOURCE: BLOOMBERG, NATIONAL ASSOCIATION REALTORS

New Home Sales

HEDGEYE TV

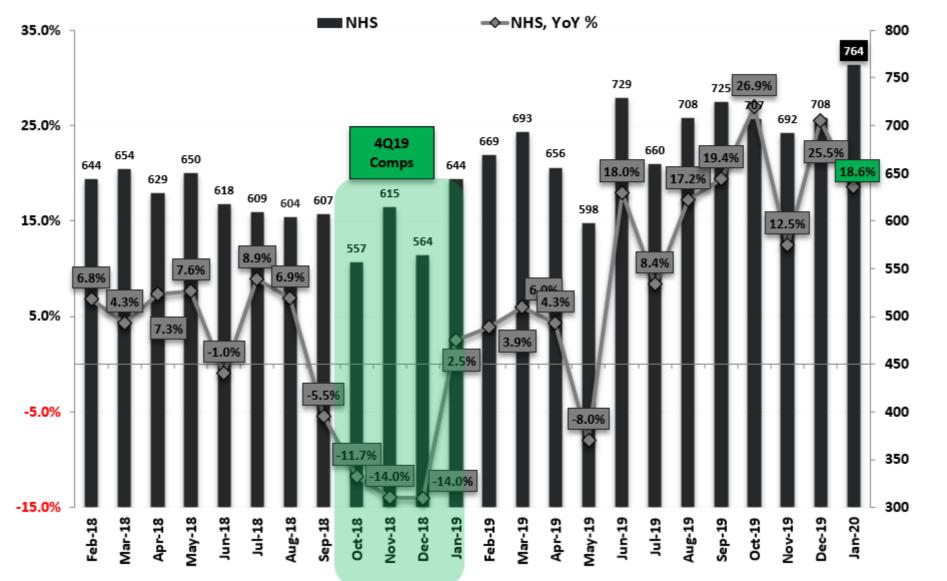
The Macro Show

February 28, 2020



DATA SOURCE: BLOOMBERG, CENSUS BUREAU

New Home Sales

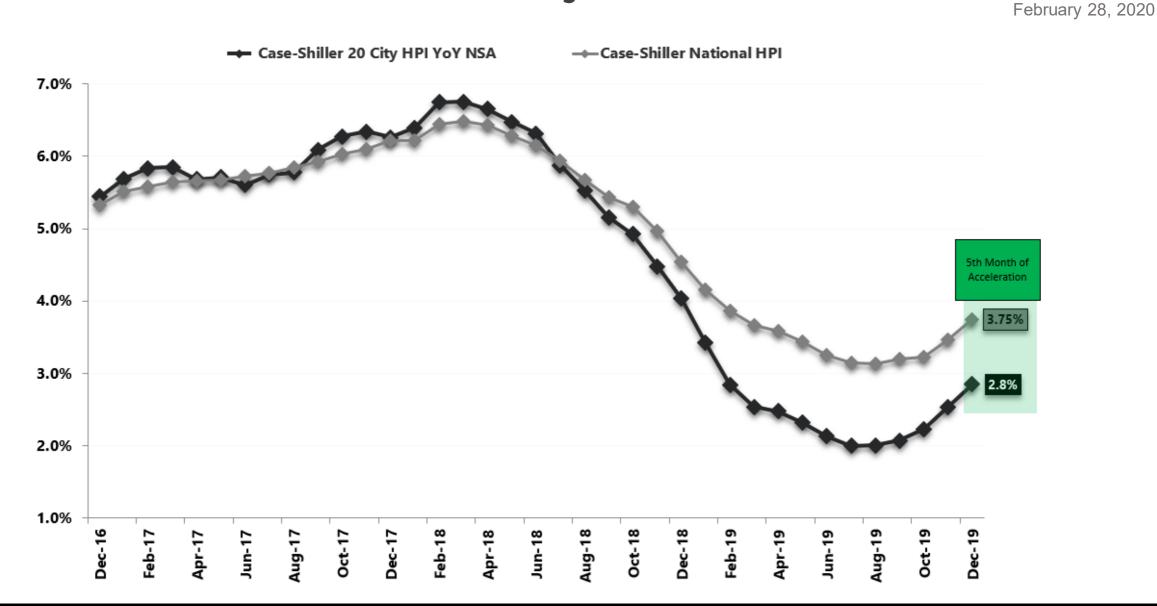


HEDGEYE TV

The Macro Show

February 28, 2020

Case-Shiller: National vs 20-City HPI



DATA SOURCE: BLOOMBERG, CENSUS BUREAU

HEDGEYE TV

The Macro Show



U.S. Equity Market Style Factor Performance

The Macro Show

February 28, 2020

	US EQUITY MARKET ST					`			·	To-Date Re	aturns	
MACRO	SECURITY	TICKER	PRICE (\$)	DD %	5D %	1Mth %	3Mth %	6Mth %	1Yr %	MTD %	QTD %	YTD %
	iShares Russell 1000 Value ETF	WD US Equity	\$122.59	-4.23%	-11.31%	-9.08%	-8.15%	2.17%	1.76%	-8.21%	-10.18%	-10.18%
	Vanguard Value ETF	VTV US Equity	\$107.01	-4.22%	-11.23%	-9.41%	-8.63%	2.17%	1.63%	-8.42%	-10.71%	-10.719
VALUE	Alpha Architect Quantitative Value ETF	QVAL US Equity	\$25.52	-3.54%	-13.17%	-12.60%	-15.62%	1.24%	-11.90%	-10.42%	-16.11%	-16.119
	Invesco S&P 500 Pure Value ETF	RPV US Equity	\$57.34	-4.69%	-15.22%	-12.90%	-15.61%	-3.09%	-9.42%	-11.99%	-17.22%	-17.229
	iShares Edge MSCI USA Value ETF	VLUE US Equity	\$78.66	-4.20%	-12.78%	-10.62%	-9.98%	4.55%	-0.97%	-8.90%	-12.34%	-12.349
	iShares Edge MSCI USA Momentum ETF	MTUM US Equity	\$121.90	-4.40%	-10.71%	-6.85%	-1.64%	2.99%	12.53%	-6.42%	-2.92%	-2.92%
	Invesco DWA Momentum ETF	PDP US Equity	\$61.95	-3.86%	-11.02%	-6.63%	-2.75%	0.51%	12.93%	-6.05%	-3.74%	-3.749
NOMENTUM	Alpha Architect Quantitative Momentum ETF	QMOM US Equity	\$32.02	-3.81%	-12.25%	-6.78%	-2.74%	-1.94%	8.82%	-6.79%	-1.14%	-1.149
	SPDR Russell 1000 Momentum ETF	ONEO US Equity	\$70.42	-3.61%	-11.82%	-9.14%	-8.61%	0.60%	0.47%	-7.86%	-9.74%	-9.749
	Fidelity Momentum Factor ETF	FDMO US Equity	\$34.75	-4.32%	-11.64%	-7.73%	-4.08%	-0.45%	5.31%	-7.90%	-5.26%	-5.26
	iShares Russell 1000 Growth ETF	WF US Equity	\$167.85	-4.57%	-12.17%	-6.80%	-2.22%	7.21%	14.71%	-6.70%	-4.59%	-4.59%
	Nasdaq 100 Index	QQQ US Equity	\$205.64	-5.01%	-12.41%	-5.71%	0.02%	11.97%	19.44%	-6.13%	-3.28%	-3.289
GROWTH	Invesco S&P 500 Pure Growth ETF	RPG US Equity	\$119.21	-3.89%	-11.76%	-7.27%	-4.18%	2.44%	5.92%	-6.74%	-5.97%	-5.979
	Vanguard Growth ETF	VUG US Equity	\$175.64	-4.80%	-12.33%	-6.34%	-1.10%	8.05%	16.48%	-6.51%	-3.58%	-3.58%
	iShares North American Tech-Software ETF	IGV US Equity	\$233.54	-4.22%	-11.46%	-5.11%	0.51%	8.34%	12.24%	-6.08%	0.21%	0.219
	iShares Edge MSCI Min Vol USA ETF	USMV US Equity	\$62.99	-4.44%	-9.30%	-6.36%	-2.55%	0.98%	12.04%	-6.18%	-3.98%	-3.989
	Invesco S&P 500 Low Volatility ETF	SPLV US Equity	\$55.68	-4.64%	-9.52%	-6.69%	-2.70%	0.39%	10.85%	-6.97%	-4.19%	-4.19%
& YIELD	Invesco S&P 500 High-Div Low-Vol ETF	SPHD US Equity	\$38.73	-4.35%	-10.36%	-9.17%	-9.42%	-0.10%	-3.74%	-7.66%	-11.40%	-11.409
& HELD	Vanguard High Dividend Yield ETF	VYM US Equity	\$83.98	-4.25%	-10.55%	-9.17%	-8.02%	1.10%	0.88%	-8.08%	-10.38%	-10.389
	iShares Select Dividend ETF	DVY US Equity	\$93.77	-4.44%	-11.73%	-10.56%	-9.22%	-0.30%	-1.12%	-9.63%	-11.25%	-11.259
	iShares Edge MSCI USA Quality Factor ETF	QUAL US Equity	\$92.76	-4.25%	-11.44%	-8.57%	-5.84%	4.53%	8.59%	-7.53%	-8.16%	-8.169
	Invesco S&P 500 Quality Factor ETF	SPHQ US Equity	\$33.46	-4.10%	-11.18%	-9.22%	-5.68%	3.86%	8.57%	-7.59%	-8.50%	-8.50%
QUALITY	Fidelity U.S. Quality Factor ETF	FQAL US Equity	\$35.17	-4.27%	-10.92%	-7.69%	-4.60%	3.57%	6.86%	-6.81%	-6.71%	-6.719
	Barron's 400 ETF	BFOR US Equity	\$38.17	-3.81%	-11.72%	-9.51%	-9.07%	2.63%	-6.90%	-7.77%	-10.69%	-10.69%
	Vanguard U.S. Quality Factor ETF	VFQY US Equity	\$77.49	-3.40%	-11.64%	-9.01%	-8.11%	2.53%	-2.68%	-7.17%	-10.47%	-10.479

Sector Performance

HEDGEYE TV

			<u>1-Day %</u>	MTD %	QTD %	<u>YTD %</u>
SECTOR	<u>Ticker</u>	<u>Price</u>	Chg	Chg	Chg	Chg
Consumer Discretionary	XLY	\$116.58	-4.04%	-6.97%	-7.05%	-7.05%
Financial Select Sector	XLF	\$27.33	-4.27%	-8.78%	-11.21%	-11.21%
Health Care Select Sector	XLV	\$93.82	-3.40%	-5.37%	-7.89%	-7.89%
Technology Select Sector	XLK	\$87.70	-5.39%	-8.00%	-4.33%	-4.33%
Consumer Staples Select Sector	XLP	\$59.16	-4.07%	-6.36%	-6.07%	-6.07%
Industrial Select Sector	XLI	\$74.44	-3.71%	-8.22%	-8.63%	-8.63%
Materials Select Sector	XLB	\$53.30	-4.69%	-7.51%	-13.22%	-13.22%
The Energy Select Sector	XLE	\$45.31	-5.35%	-15.21%	-24.53%	-24.53%
Utilities Select Sector	XLU	\$64.33	-4.50%	-6.74%	-0.45%	-0.45%
Real Estate Select Sector	XLRE	\$37.72	-5.65%	-3.85%	-2.46%	-2.46%
Communications Services Sector	XLC	\$50.61	-3.95%	-6.12%	-5.63%	-5.63%
S&P 500	SPX	2,978.76	-4.42%	-7.65%	-7.80%	-7.80%

Sector Relative Performance



The Macro Show February 28, 2020

			<u>1-Day %</u>	<u>MTD %</u>	QTD %	<u>YTD %</u>
	<u>Ticker</u>	Price Price	Chg	Chg	Chg	Chg
Consumer Discretionary	XLY	\$116.58	0.37%	0.68%	0.75%	0.75%
Financial Select Sector	XLF	\$27.33	0.14%	-1.13%	-3.41%	-3.41%
Health Care Select Sector	XLV	\$93.82	1.02%	2.28%	-0.09%	-0.09%
Technology Select Sector	XLK	\$87.70	-0.98%	-0.35%	3.47%	3.47%
Consumer Staples Select Sector	XLP	\$59.16	0.35%	1.29%	1.74%	1.74%
Industrial Select Sector	XLI	\$74.44	0.70%	-0.57%	-0.83%	-0.83%
Materials Select Sector	XLB	\$53.30	-0.27%	0.14%	-5.42%	-5.42%
The Energy Select Sector	XLE	\$45.31	-0.93%	-7.56%	-16.73%	-16.73%
Utilities Select Sector	XLU	\$64.33	-0.08%	0.91%	7.35%	7.35%
Real Estate Select Sector	XLRE	\$37.72	-1.24%	3.80%	5.34%	5.34%
Communications Services Sector	XLC	\$50.61	0.47%	1.53%	2.17%	2.17%



Market Share Volume & Total Value Traded

The Macro Show February 28, 2020

INDEX/SECURITY	VOLUME: (2/27) vs.									
	Prior Day	1M Ave	<u>3M ave</u>	1Y Ave						
Total Market Volume*	23%	49%	60%	57%						
Total Exchange Volume**	310	85%	107%	121%						

*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)

Source: Bloomberg, Hedgeye

HEDGEYE TV

Style Factor Performance

The Macro Show February 28, 2020

	FACTOR	1D % Chg	1W % Chg	1M % Chg	3M % Chg	6M % Chg	YTD % Chg
Ħ	High Debt/EV	-4.2%	-13.2%	-10.6%	-9.2%	1.2%	-11.7%
Debt	Low Debt/EV	-3.9%	-11.0%	-7.5%	-4.4%	5.1%	-6.3%
SI	High Short Interest	-3.4%	-12.6%	-10.8%	-9.4%	2.4%	-11.2%
	Low Short Interest	-4.3%	-11.4%	-8.8%	-6.7%	2.0%	-8.3%
BETA	High Beta	-3.9%	-14.0%	-10.3%	-10.3%	6.2%	-13.1%
8	Low Beta	-4.1%	-8.7%	-6.7%	-3.4%	-0.8%	-4.6%
VIELD	High Yield	-4.3%	-13.0%	-12.0%	-12.9%	-3.3%	-14.6%
XIE	Low Yield	-3.5%	-11.6%	-7.8%	-5.4%	6.1%	-6.7%
MKT CAP	MCAP Bottom 25%	-3.6%	-13.4%	-11.9%	-12.5%	-0.3%	-14.2%
2 2	MCAP Top 25%	-4.2%	-10.9%	-7.4%	-4.5%	5.1%	-6.6%
Sales	Top 25% Sales Growth	-4.2%	-13.0%	-8.0%	-4.4%	4.1%	-7.5%
Sa	Bottom 25% Sales Growth	-4.1%	-11.7%	-10.0%	-9.6%	0.2%	-11.3%
EPS	Top 25% EPS Growth	-4.3%	-14.2%	-10.1%	-7.6%	2.1%	-11.1%
ä	Bottom 25% EPS Growth	-4.1%	-10.7%	-8.4%	-8.0%	1.1%	-8.8%

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

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	1.43%	-8.2	-14.6	-11	-16	-105	3	-28	31
3M LIBOR	1.61%	-2.4	-7.0	-16	-30	-102	0	-39	17
2Y T-Note	1.07%	-9.9	-32.4	-38	-56	-150	3	-91	-44
5Y T-Note	1.08%	-8.1	-28.5	-36	-55	-149	4	-110	-82
10Y T-Note	1.27%	-6.5	-24.3	-34	-49	-149	3	-114	-99
30Y T-Note	1.77%	-5.5	-19.1	-29	-42	-137	3	-104	-102
2Y-10Y Spread, Bps	20.67	3.4	8.1	4.0	7	1	0	-24	-55
IG SPREAD (AAABBB)	1.35%	1.0	8.0	5	-3	-29	11	-11	-25
HIGH YIELD	5.67%	0.0	54.0	24	6	-107	69	-36	-77
5Y BREAKEVEN	1.48%	-6.0	-16.7	-9.2	-7.2	-44.3	22.8	-30.8	-18.5



Key \$USD Correlations

The Macro Show February 28, 2020

						52-Wk Rolling 30D Correlation						
METRIC	15D	30D	90D	120D	180D	High	Low	% Time Pos	% Time Neg			
SPX	0.47	0.19	0.23	-0.16	0.04	0.78	-0.78	53%	47%			
BRENT Oil	0.84	-0.41	-0.72	-0.62	-0.56	0.79	-0.88	41%	59%			
CRB Index	0.44	-0.72	-0.07	-0.62	-0.48	0.71	-0.82	30%	70%			
GOLD	0.26	0.61	0.39	0.24	0.45	0.74	-0.91	34%	66%			

*Days = Trading Days

CFTC Non-Commercial Net Long Positioning

	<u> DN-COMMERCIAL NE</u>						3Y			core
	METRIC	Latest	W/W Chg	3M Ave	6M Ave	1Y Ave	Max	Min	1Y	3Y
	SPX (Index + E-mini)	12,925	(5,720)	10,893	16,613	25,429	249,638	(128,189)	-0.30X	-1.01X
ES	VIX	(130,229)	640	(159,652)	(153,988)	(136,466)	92,913	(218,362)	0.15X	-0.56X
E	Russell 2000 (mini)	42,812	914	43,715	6,850	(27,228)	72,749	(117,606)	1.39X	1.153
EQUITIES	Dow Jones (mini)	27,440	(1,907)	28,207	33,826	30,742	95,976	(282)	-0.31X	-0.54X
E	Nasdaq (mini)	21,102	10,327	19,262	25,081	18,021	113,412	(24,815)	0.21X	-0.13X
	Nikkei Index	(5,857)	(137)	(6,918)	(7,548)	(9,104)	14,214	(16,298)	0.97X	-0.46X
	10Y UST	(227,825)	58,479	(204,285)	(211,346)	(249,288)	372,991	(758,490)	0.22X	-0.193
8	2Y UST	(206,186)	5,427	(280,426)	(238,790)	(208,204)	67,767	(421,551)	0.02X	-0.25X
E	5Y UST	(204,898)	(26,591)	(272,282)	(211,953)	(155,691)	6,400	(866,140)	-0.48X	0.493
RATES	UST Bonds	(8,158)	(5,765)	(56,600)	(58,408)	(46,489)	122,839	(142,810)	1.79X	0.073
H.	30D Fed Funds	300,256	(3,978)	326,474	243,778	60,605	397,055	(286,025)	1.16X	1.92X
	Eurodollar	1,261,475	63,123	1,095,890	1,207,251	774,347	1,503,625	(3,110,209)	0.81X	1.623
	\$USD	24,228	4,749	17,168	25,476	26,844	51,014	(10,666)	-0.35X	0.24X
20	JPY	(31,774)	(1,7)	(35,911)	(17,907)	(29,545)	32,039	(140,151)	-0.07X	0.613
Ĥ	EUR	(101,862)	(10,374)	(71,263)	(68,027)	(72,342)	147,318	(111,509)	-1.38X	-1.373
S.	GBP	30,445	8,824	6,577	(29,231)	(35,924)	49,216	(113,271)	1.68X	1.523
Ē	AUD	(38,873)	(4,913)	(36,769)	(42,303)	(48,832)	77,969	(74,181)	0.89X	-0.52X
22	CAD	7,304	(1,389)	19,685	20,519	(1,212)	78,001	(99,736)	0.27X	0.303
CURRENCIES	MXN	153,420	(3,014)	153,590	133,465	129,821	170,379	(45,496)	0.97X	1.483
U	NZD	(12,182)	(8,168)	(9,519)	(22,998)	(16,969)	35,981	(42,544)	0.33X	-0.223
	CHF	1,491	(2,242)	(6,181)	(8,210)	(16,434)	4,899	(47,216)	1.43X	1.543
	CRUDE OIL	410,285	(3,345)	496,494	459,673	460,339	784,290	332,714	-0.84X	-0.903
	GOLD	284,206	54,837	240,910	243,544	183,748	292,066	(103,009)	1.05X	1.593
	COPPER.	(41,362)	3,059	(15,805)	(27,909)	(21,426)	67,602	(60,135)	-0.85X	-1.643
	Natural Gas	(226,077)	19,204	(224,509)	(189,534)	(147,889)	57,455	(262,534)	-1.11X	-1.933
	RBOB Gasoline	118,334	3,410	108,948	85,970	84,957	129,000	29,519	1.69X	1.863
	ULSD Heating Oil	(19,986)	3,117	(6,546)	(4,410)	(8,007)	67,696	(27,674)	-1.30X	-1.45X
	Silver	80,646	12,838	62,751	59,258	40,146	107,003	(30,158)	1.47X	1.453
Ĕ	Platinum	63,093	163	59,717	47,371	33,317	69,306	(11,540)	1.58X	2.283
Ε	Aluminum	163,475	(2,043)	159,128	161,735	157,727	168,292	122,356	0.55X	1.31X
ē	Nickel	42,230	(365)	42,658	44,005	37,006	47,708	13,508	0.60X	1.213
ğ	Corn	(16,186)	4,369	(31,577)	(50,771)	(20,613)	372,754	(270,560)	0.03X	-0.27X
COMMODITIES	Soybeans	(56,409)	6,226	(26,582)	(1,000)	(28,953)	210,365	(148,817)	-0.49X	-0.77X
8	Wheat	60,302	18,030	35,041	19,793	2,173	63,219	(143,292)	1.60X	1.713
•	Live Cattle	59,551	(6,738)	96,202	72,353	90,866	183,134	19,421	-0.67X	-0.96X
	Lean Hogs	28,382	1,507	27,032	39,120	54,213	97,769	(11,151)	-1.00X	-0.473
	Sugar	202,197	15,162	82,180	(42,953)	(54,476)	202,197	(205,161)	2.38X ┥	2.022
-	Cotton	37,489	360	25,046	6,018	(507)	132,318	(37,827)	1.45X	-0.293
	Coffee	(5,114)	(1,488)	27,757	(2,757)	(22,902)	46,860	(106,651)	0.49X	0.853
	Cocoa	80,931	(338)	61,955	40,290	27,372	81,269	(43,846)	1.70X	2.21X
	Orange Juice	(6,289)	423	(6,461)	(6,325)	(6,704)	5,540	(9,416)	0.47X	-0.78X

CFTC NON-COMMERCIAL NET LONG POSITIONING

The Macro Show

HEDGEYE TV

February 28, 2020

Volatility

HEDGEYE TV

The Macro Show

February 28, 2020

TIME WINDOW SETTING:		TOTAL RETURN	IVOL PREMIUM	/DISCOUNT					REALIZED VOL	ATILITY TR	ENDS	IMPLIED VOLA	TILITY TREP	NDS
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											
Utilities Sector SPDR ETF	XLU US EQUITY	- 0.45 %	24 %	119 %	13 %	35%	0.0	0.3	18.6	110 %	87 %	23.0	93 %	98%
Power Shares QQQ Trust ETF	QQQ US EQUITY	- 3.28 %	41%	27 %	15%	64%	0.8	1.0	26.6	124%	89%	37.5	93 %	99%
Vanguard Real Estate REIT ETF	VNQ US EQUITY	-3.56 %	10%	19 %	2%	22 %	0.3	0.4	22.1	110%	86%	24.4	90%	90%
Technology Sector SPDR ETF	XLK US EQUITY	-4.33 %	36%	23%	4%	80%	0.5	0.6	30.4	129 %	95%	41.2	72 %	100%
Communication Services SPDR ETF	XLC US EQUITY	- 5.63 %	51 %	37 %	16 %	60 %	1.0		22.1	90 %	75%	33.3	78 %	98%
Consumer Staples Sector SPDR ETF	XLP US EQUITY	- 6.07 %	55 %	117 %	31%	314%	-0.1	0.4	16.8	149%	88%	26.0	-7 %	99%
Consumer Discretionary Sector SPDR ETF	XLY US EQUITY	- 7.05 %	61 %	48 %	0%	89 %	1.2	1.3	21.8	117%	85%	35.0	84 %	99%
SPDR S&P 500 ETF Trust	SPY US EQUITY	- 7.57 %	65 %	31%	0%	82 %	1.6	1.7	22.5	154%	90%	37.1	130%	100%
Health Care Sector SPDR ETF	XLV US EQUITY	- 7.89 %	42 %	30%	5%	63 %	1.0	1.0	20.8	113 %	88%	29.5	85 %	99%
Industrials Sector SPDR ETF	XLI US EQUITY	-8.63 %	49 %	34%	3%	61 %	0.9	1.1	23.4	105%	88%	34.8	89 %	98%
I-Shares Russell 2000 ETF	IWM US EQUITY	-10.03%	73 %	35%	5%	108%	2.2	2.4	22.2	161%	83%	38.3	118 %	97 %
Financials Sector SPDR ETF	XLF US EQUITY	- 11.21 %	42 %	35%	6 %	72 %	1.3	1.3	23.4	126%	82 %	33.2	86%	95%
Materials Sector SPDR ETF	XLB US EQUITY	-13.22%	61 %	20 %	-6 %	213 %	1.0	1.5	26.0	117%	89 %	41.8	11%	99%
Energy Sector SPDR ETF	XLE US EQUITY	-24.53%	36%	13 %	-5 %	30 %	1.6	1.4	31.6	86 %	90%	43.0	95 %	99%
INTERNATIONAL EQUITIES														
I-Shares China Large-Cap ETF	FXI US EQUITY	- 7.38 %	9%	- 7 %	- 27 %	2%	0.3	0.4	28.1	13 %	82 %	30.6	21%	91 %
Euro Stoxx 50 Index	SX5E INDEX	-7.44%	28 %	2 %	-22 %	19%	1.1	0.5	22.5	76 %	79 %	28.9	89 %	92 %
I-Shares MSCI Emerging Markets ETF	EEM US EQUITY	- 9.36 %	33%	8%	-20%	13%	0.7	1.2	24.7	32%	83%	32.8	56 %	94%
I-Shares MSCI Japan ETF	EWJ US EQUITY	-10.50%	48 %	31 %	0%	33 %	2.0	1.5	18.6	99 %	71 %	27.6	122 %	96%
CURRENCIES														
PowerShares US Dollar Index ETF	UUP US EQUITY	2.50%	77%	69 %	56 %	- 37 %	1.7	1.2	4.5	- 37 %	9 %	7.9	75%	53 %
Currency Shares Japanese Yen ETF	FXY US EQUITY	-1.21 %	7%	-2 %	0%	37 %	-0.1	-0.2	7.0	75%	32%	7.4	36%	26%
Currency Shares Euro Trust ETF	FXE US EQUITY	-2.14 %	36%	40%	43%	2%	1.7	1.9	5.2	28 %	11%	7.1	69 %	27 %
Currency Shares British Pound ETF	FXB US EQUITY	-2.68 %	-17 %	-19 %	-23 %	-29 %	-0.9	-1.1	8.5	- 9 %	57%	7.1	6 %	23%
COMMODITIES														
SPDR Gold Shares ETF	GLD US EQUITY	7.77%	46 %	33%	32 %	44%	2.2	2.4	11.1	41 %	31%	16.2	43 %	64%
PowerShares DB Agriculture Fund ETF	DBA US EQUITY	- 7.31 %	10%	29 %	1%	- 2 %	-0.6	-0.8	11.5	-14%	46%	12.6	-4%	20%
United States Natural Gas Fund ETF	UNG US EQUITY	- 20.11%	10%	4%	3%	33%	-0.4	-0.1	36.7	29 %	60%	40.3	6 %	59 %
United States Oil Fund ETF	USO US EQUITY	-23.65 %	54%	45 %	24 %	58 %	2.0	2.5	30.7	35%	64%	47.2	31%	93%
FIXED INCOME														
I-Shares 20+ Year Treasury Bond ETF	TLT US EQUITY	12.29 %	37 %	28 %	8%	4%	3.0	2.4	12.6	6 %	52 %	17.3	40 %	92 %
I-Shares 7-10 Year Treasury Bond ETF	IEF US EQUITY	5.35%	56 %	39 %	18 %	19 %	1.1	0.7	5.4	15%	47 %	8.5	51%	90%
I-Shares IBOXX IG Corporate Bond ETF	LOD US EQUITY	2.41 %	58 %	55%	34%	30%	3.3	2.3	3.8	- 6 %	12%	6.0	14%	63%
I-Shares J.P. Morgan USD EM Bond ETF	EMB US EQUITY	0.11%	47 %	40%	50%	70 %	2.0	1.2	5.6	46 %	50%	8.2	27 %	69 %
I-Shares IBOXX HY Corporate Bond ETF	HYG US EQUITY	- 2.15 %	54 %	45 %	-15%	62 %	1.5	1.2	7.4	97 %	73%	11.3	88%	90%
Data Source: CBOE, CME, Bloomberg														

Macro Data Callouts



- 1. Recall that our outlooks for the growth rates of S&P 500 <u>Sales</u> and <u>EPS</u> materially diverged from consensus in calling for L-Shaped "non-recoveries" in 2020E well in advance of the Corona Virus outbreak. Yesterday's Durable Goods New Orders (-67bps to -3.88% YoY in JAN) and Core Capital Goods New Orders (-36bps to 0.91% YoY in JAN) prints were both confirming of that view. The 6MMA for both these indicators remains in negative territory upon the advent of these data. The sequential weakness in Capex is particularly disturbing in light of the surge in "geopoliticonomic" uncertainty that I presaged in my note a few weeks back (attached), as well as in the context of Deloitte's Q4 CFO Survey I highlighted two months ago in which <u>97% of US CFOs believe a slowdown has already begun or will commence in 2020</u>. 82% of respondents anticipated taking more defensive actions like reducing discretionary spending and headcount as a way to stave off the looming headwinds. It's fast become consensus among investors that COVID-19 is both a catalyst to pull forward such actions and an amplifier of the severity of any cuts.
- 2. On that front, we also received Jobless Claims data yesterday, which showed a uneventful divergence between Initial Claims (+8k to 219k) and Continuing Claims (-9k to 1,724k). Both indicators remain healthy from a rate of change perspective as well: Monthly Average Initial Jobless Claims decelerated -71bps to -5.57% YoY in FEB and Monthly Average Continuing Jobless Claims also decelerated in FEB by -124bps to 0.88% YoY. Recall that Initial and Continuing Claims are currently the 16th and 3rd highest-weighted features in our nowcast model for US Real GDP growth, so these signals are buttressing the near-term GROWTH outlook for now which also implies the delta on any recorded slowdown from here could be sizeable. Per the advent of these data and the aforementioned Durable Goods and Capex data, our model still has domestic economic growth slowing here in 1020E at 2.21% YoY/2.59% QoQ SAAR. That compares to 2.24% YoY/2.71% QoQ SAAR for the Atlanta Fed's GDPNow model. A full visual summary US and global GIP dynamics is provided below.
- 3. Japan is the #1 destination for Chinese tourists and China is South Korea's largest source of external demand at 25% of total exports. Given these figures, it makes sense to dutifully monitor their high-frequency releases as well to gauge for regional impact of COVID-19. Japanese Retail Sales accelerated +220bps to -0.4% YoY in JAN, while Industrial Production accelerated +60bps to -2.5% YoY. Is this as good as it gets for an economy already mired in deep recession? Keith market signals on the Nikkei and JGB yields would seems to suggest that is the case. South Korean Industrial Production on the other hand crashed -870bps to -2.4% YoY in JAN. The FEB releases of these data are highly likely to be far worse across the board.



The Macro Show February 28, 2020

Macro Daily Data Dump

Date Time	Country/Region	С	Event	Period	Surv(M)	Actual	Prior	Revised	Ticker
43888.35417	United States	US	GDP Annualized QoQ	4Q S	2.10%	2.10%	2.10%		GDP CQOQ Index
43888.35417	United States	US	Durable Goods Orders	Jan P		-3.88%	-3.21%		DGNOCHNG Index
43888.35417	United States	US	Cap Goods Orders Nondef Ex Air	Jan P		0.91%	1.27%		CGNOXAI% Index
43888.35417	United States	US	Initial Jobless Claims	22-Feb	212k	219k	210k	211k	INJCJC Index
43888.35417	United States	US	Continuing Claims	15-Feb	1711k	1724k	1726k	1733k	INJCSP Index
43888.41667	United States	US	Pending Home Sales NSA YoY	Jan	2.10%	6.70%	6.80%		USPHTYOY Index
43888.45833	United States	US	Kansas City Fed Manf. Activity	Feb	-1	5	-1		KCLSSACI Index
43888.75	South Korea	SK	Industrial Production YoY	Jan	0.10%	-2.40%	4.20%		KOIPIY Index
43888.78472	Japan	JN	Retail Sales YoY	Jan	-1.30%	-0.40%	-2.60%		JNNETYOY Index
43888.78472	Japan	JN	Industrial Production YoY	Jan P	-3.10%	-2.50%	-3.10%		JNIPYOY Index
43888.79236	United Kingdom	UK	GfK Consumer Confidence	Feb	-8	-7	-9		UKCCI Index
43888.79236	United Kingdom	UK	Lloyds Business Barometer	Feb		23	23		LTSBBSBX Index
43889.08333	Turkey	TU	GDP YoY	4Q	5.00%	6.00%	0.90%	1.00%	TUGPIGDY Index
43889.11458	France	FR	CPI EU Harmonized YoY	Feb P	1.60%	1.60%	1.70%		FRCPEECY Index
43889.11458	France	FR	CPI YoY	Feb P	1.50%	1.40%	1.50%		FRCPIYOY Index
43889.11458	France	FR	PPI YoY	Jan		0.20%	0.30%	0.60%	FRPIYOY Index
43889.11458	France	FR	Consumer Spending YoY	Jan	0.30%	-0.90%	2.00%	2.10%	FRSNTTLY Index
43889.11458	France	FR	GDP QoQ	4Q F	-0.10%	-0.10%	-0.10%		FRGEGDPQ Index
43889.11458	France	FR	GDP YoY	4Q F	0.80%	0.90%	0.80%		FRGEGDPY Index
43889.125	Germany	GE	CPI Saxony YoY	Feb		2.00%	1.80%		GRCP2SAY Index
43889.20833	Italy	IT	CPI EU Harmonized YoY	Feb P	0.40%	0.30%	0.40%		ITCPEY Index
43889.20833	Italy	IT	CPI NIC incl. tobacco YoY	Feb P	0.60%	0.40%	0.60%	0.50%	ITCPNICY Index



Hedgeye Macroeconomic Data Sequencer

The Macro Show

February 28, 2020

HEDGEYE MACROECONOMIC DATA SEQUENCER	QUARTERLY AVERAGE DELTA		TRENDING DELTA		SEQUENTIAL DELTA		PERCENTILE BASIS (TIOY)	RoC	HISTORICAL CONTEXT	
GDP US Chained 2012 Dollars QoQ SAAR	Sep-19	Dec-19	12MMA	6MMA (4Q19)	Prior	Latest (4Q19)	Latest Reading	4Q19	Best Since	Worst Since
	2.10	2.10	2.33	2.10	2.10	2.10	41%	0.00	3/31/2019	6/30/2019
Durable Goods New Orders YoY YoY % Change	Dec-19	Mar-20	12MMA	6MMA (JAN)	Prior	Latest (JAN)	Latest Reading	JAN	Best Since	Worst Since
	-3.10	-3.88	-2.17	-3.65	-3.21	-3.88	13%	-0.67	12/31/2019	11/30/2019
Core Capital Goods New Orders YoY YoY % Change	Dec-19	Mar-20	12MMA	6MMA (JAN)	Prior	Latest (JAN)	Latest Reading	JAN	Best Since	Worst Since
	0.16	0.91	0.69	-0.06	1.27	0.91	39%	-0.36	12/31/2019	11/30/2019
US Pending Home Sales Index YoY NSA	Dec-19	Mar-20	12MMA	6MMA (JAN)	Prior	Latest (JAN)	Latest Reading	JAN	Best Since	Worst Since
	5.60	6.70	1.95	5.13	6.80	6.70	71%	-0.10	12/31/2019	11/30/2019
Kansas City Federal Reserve SA Composite Index	Dec-19	Mar-20	12MMA	6MMA (FEB)	Prior	Latest (FEB)	Latest Reading	FEB	Best Since	Worst Since
	-3.00	2.00	0.25	-1.00	-1.00	5.00	49%	6.00	3/31/2019	1/31/2020
South Korea IP-Mining/Manufacturing/Electricity&Gas NSA YoY	Dec-19	Mar-20	12MMA	6MMA (JAN)	Prior	Latest (JAN)	Latest Reading	JAN	Best Since	Worst Since
	2.43	-2.40	-0.43	0.38	6.30	-2.40	15%	-8.70	12/31/2019	8/31/2019
Japan Retail Trade YoY NSA	Dec-19	Mar-20	12MMA	6MMA (JAN)	Prior	Latest (JAN)	Latest Reading	JAN	Best Since	Worst Since
	-3.90	-0.40	0.06	-0.18	-2.60	-0.40	23%	2.20	9/30/2019	12/31/2019
Japan Indices of Industrial Production: Production YoY NSA	Dec-19	Mar-20	12MMA	6MMA (JAN)	Prior	Latest (JAN)	Latest Reading	JAN	Best Since	Worst Since
	-6.33	-2.50	-3.05	-4.15	-3.10	-2.50	21%	0.60	9/30/2019	12/31/2019
GFK UK Consumer Confidence Indicator	Dec-19	Mar-20	12MMA	6MMA (FEB)	Prior	Latest (FEB)	Latest Reading	FEB	Best Since	Worst Since
	-13.00	-8.00	-11.75	-11.17	-9.00	-7.00	65%	2.00	5/31/2017	1/31/2020
Lloyds Bank Business Barometer Summary Indicator % Balance	Dec-19	Mar-20	12MMA	6MMA (FEB)	Prior	Latest (FEB)	Latest Reading	FEB	Best Since	Worst Since
	8.33	23.00	11.17	12.17	23.00	23.00	29%	0.00	11/30/2018	12/31/2019
Germany Import Prices YoY	Dec-19	Mar-20	12MMA	6MMA (JAN)	Prior	Latest (JAN)	Latest Reading	JAN	Best Since	Worst Since
	-2.10	-0.90	-1.00	-2.07	-0.70	-0.90	43%	-0.20	12/31/2019	11/30/2019
Turkey GDP Chain Linked YoY	Sep-19	Dec-19	12MMA	6MMA (4Q19)	Prior	Latest (4Q19)	Latest Reading	4Q19	Best Since	Worst Since
	0.96	5.96	0.75	3.46	0.96	5.96	51%	5.00	3/31/2018	9/30/2019
Turkey GDP Chain Linked Index SWDA QoQ	Sep-19	Dec-19	12MMA	6MMA (4Q19)	Prior	Latest (4Q19)	Latest Reading	4Q19	Best Since	Worst Since
	0.76	1.94	1.45	1.35	0.76	1.94	67%	1.18	3/31/2019	9/30/2019
France CPI 2015=100 YoY	Dec-19	Mar-20	12MMA	6MMA (FEB)	Prior	Latest (FEB)	Latest Reading	FEB	Best Since	Worst Since
	1.10	1.45	1.14	1.18	1.50	1.40	62%	-0.10	1/31/2020	11/30/2019
France PPI 2010=100 YoY	Dec-19	Mar-20	12MMA	6MMA (JAN)	Prior	Latest (JAN)	Latest Reading	JAN	Best Since	Worst Since
	-0.40	0.20	0.33	-0.40	0.60	0.20	39%	-0.40	12/31/2019	11/30/2019
France European Harmonised CPI YoY	Dec-19	Mar-20	12MMA	6MMA (FEB)	Prior	Latest (FEB)	Latest Reading	FEB	Best Since	Worst Since
	1.23	1.65	1.33	1.35	1.70	1.60	61%	-0.10	1/31/2020	11/30/2019
France Households Consumption Goods Expenditure Total YoY	Dec-19	Mar-20	12MMA	6MMA (JAN)	Prior	Latest (JAN)	Latest Reading	JAN	Best Since	Worst Since
	0.93	-0.90	-0.23	0.35	2.10	-0.90	15%	-3.00	12/31/2019	3/31/2019
France GDP Chain Linked Prices YoY	Sep-19	Dec-19	12MMA	6MMA (4Q19)	Prior	Latest (4Q19)	Latest Reading	4Q19	Best Since	Worst Since
	1.50	0.90	1.30	1.20	1.50	0.90	26%	-0.60	9/30/2019	9/30/2016
Italy CPI NIC All Items YoY NSA	Dec-19	Mar-20	12MMA	6MMA (FEB)	Prior	Latest (FEB)	Latest Reading	FEB	Best Since	Worst Since
	0.30	0.45	0.54	0.35	0.50	0.40	28%	-0.10	1/31/2020	11/30/2019
Italy HICP YoY NSA	Dec-19	Mar-20	12MMA	6MMA (FEB)	Prior	Latest (FEB)	Latest Reading	FEB	Best Since	Worst Since
	0.30	0.35	0.54	0.30	0.40	0.30	23%	-0.10	1/31/2020	11/30/2019