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Top 3 Things 1 RATES 2 ENERGY







VOL

3



Massive move in both US and European rates being pushed higher here by an #accelerating German CPI print of +8.7% FEB vs. +8.1% JAN, threatening a 10yr Bund Yield breakout above the DEC highs; UST 10yr Yield's LOW end of the Risk Range is now ABOVE TREND Signal Support of 3.60% and the MOVE is moving higher post our SELL Signals on IEF, TLT, XLU, SIL, SILJ, etc. in the last few weeks.



And you thought panicking in the Macro Show QA about Gold being flat on the day was bad – try being long Energy! Nat Gas down another -4% this AM taking its #Quad4 Crash to -80% (not a typo) from its #Quad3 Inflation Cycle Peak, WTI down another -1.7% (crashing -42% from its #Quad3 peak), and we remain short of Energy in XOP, QAT, UAE, EWZ, etc. terms.

3 VOL

Treasury Bond Vol (MOVE Index ramps back up to 120), FX Vol (ramping on the Yen breaking down post BOJ buying 400B JPY worth to cap that 10yr at 0.50%), Commodities Vol, and ... drumroll... US Equity Vol explodes to the upside right from where the **ball was under water** (sub 19 VIX); biggest question is whether *#NazVol* gets back into the 30s this week (it went out at 28.57 VXN).



OUR PROCESS

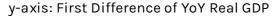
What Are The Quads?

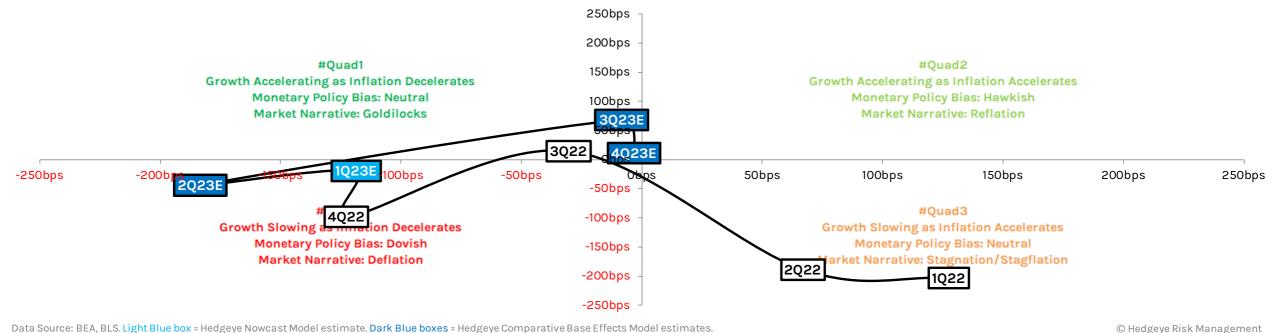
HEDGFYF

Our GIP Model is a quantitatively oriented, regime-based framework that helps investors proactively prepare for volatility phase transitions within and across asset classes by triangulating the three factors that matter most to Macro Risk Management – i.e. GROWTH, INFLATION, and POLICY.

United States	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	1Q22	2Q22	3Q22	4Q22	\leftarrow Actuals Estimates \rightarrow	1Q23E	2Q23E	3Q23E	4Q23E
Real GDP QoQ SAAR	-4.60%	-29.90%	35.30%	3.90%	6.30%	7.00%	2.70%	7.00%	-1.60%	-0.60%	3.20%	2.90%	Real GDP QoQ SAAR	-2.37%	-2.30%	6.07%	3.34%
Real GDP YoY	0.82%	-8.35%	-2.02%	-1.52%	1.19%	12.46%	4.96%	5.72%	3.68%	1.80%	1.94%	0.96%	Real GDP YoY	0.77%	0.33%	1.01%	1.12%
2yr Comparative Base Effects	2.61%	2.70%	2.73%	2,44%	149%	- <mark>3.11%</mark>	0.14%	0.53%	1.01%	2.06%	1.47%	2.10%	2yr Comparative Base Effects	2.44%	7.13%	3.45%	3.34%
Headline CPI YoY	2.12%	0.36%	1.22%	1.24%	1.90%	4.85%	5.34%	6.69%	7.96%	8.63%	8.33%	7.10%	Headline CPI YoY	5.92%	4.08%	4.00%	3.97%
2yr Comparative Base Effects	193%	2.26%	2.20%	2.12%	188%	109%	149%	1.64%	2.01%	2.61%	3.28%	3.96%	2yr Comparative Base Effects	4.93%	6.74%	6.83%	6.90%

United States





Data Source: BEA, BLS. Light Blue box = Hedgeye Nowcast Model estimate. Dark Blue boxes = Hedgeye Comparative Base Effects Model estimates.

Updated: 2/15/2023

Data Source: BLS, BEA

Highest/Lowest Expected Values By Quad Regime

Quad 1: Goldilocks

Best Asset Classes:

Equities, Credit, Commodities, FX

Worst Asset Classes:

Fixed Income, USD

Best Equity Sectors:

Tech, Consumer Discretionary, Materials, Industrials, Telecom

Worst Equity Sectors:

Utilities, REITS, Consumer Staples, Financials, Energy

Best Equity Style Factors:

High Beta, Momentum, Leverage, Secular Growth, Mid Caps

Worst Equity Style Factors:

Low Beta, Defensives, Value, Dividend Yield, Small Caps

Best Fixed Income Sectors:

BDCs, Convertibles, HY Credit, EM \$ Debt, Leveraged Loans

Worst Fixed Income Sectors:

TIPS, Short Duration Treasurys, MBS, Treasury Belly, Long Bond

Quad 2: Reflation

Best Asset Classes:

Commodities, Equities, Credit, FX

Worst Asset Classes:

Fixed Income, USD

Best Equity Sectors:

Tech, Consumer Discretionary, Industrials, Energy, Financials

Worst Equity Sectors:

Telecom, Utilities, REITS, Consumer Staples, Health Care

Best Equity Style Factors:

Secular Growth, High Beta, Small Caps, Cyclical Growth, Momentum

Worst Equity Style Factors:

Low Beta, Dividend Yield, Value, Defensives, Size

Best Fixed Income Sectors:

Convertibles, BDCs, Preferreds, Leveraged Loans, HY Credit

Worst Fixed Income Sectors:

Long Bond, Treasury Belly, Munis, MBS, IG Credit

Quad 3: Stagflation

Best Asset Classes:

Gold, Commodities, Fixed Income

Worst Asset Classes:

Credit

Best Equity Sectors:

Utilities, Tech, Energy, Industrials, Consumer Discretionary

Worst Equity Sectors:

Financials, REITS, Materials, Telecom, Consumer Staples

Best Equity Style Factors:

Secular Growth, Momentum, Mid Caps, Low Beta, Quality

Worst Equity Style Factors:

Small Caps, Dividend Yield, Value, Defensives, Size

Best Fixed Income Sectors:

Munis, EM \$ Debt, Long Bond, TIPS, Treasury Belly

Worst Fixed Income Sectors:

BDCs, Preferreds, Convertibles, Leveraged Loans, HY Credit

Quad 4: Deflation

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Best Asset Classes:

Fixed Income, Gold, USD

Worst Asset Classes:

Commodities, Equities, Credit, FX

Best Equity Sectors:

Consumer Staples, Utilities, REITS, Health Care, Telecom

Worst Equity Sectors:

Energy, Tech, Industrials, Financials, Materials

Best Equity Style Factors:

Low Beta, Dividend Yield, Quality, Defensives, Value

Worst Equity Style Factors:

High Beta, Momentum, Leverage, Secular Growth, Cyclical Growth

Best Fixed Income Sectors:

Long Bond, Treasury Belly, IG Credit, Munis, MBS

Worst Fixed Income Sectors:

Preferreds, EM Local Currency, BDCs, Leveraged Loans, TIPS

Source: Hedgeye GIP Model Market History Backtests. Quarterly expected values since 1Q98. Total Return indices. ETF exposures in ().



CHART CALLOUTS

South Korea Composite Index (KOSPI)



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Natural Gas

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Industrial Price Day % Weekly Monthly YoY Date ₹ 26.3 Palladium 1499.31 -1.72% 2.34% -12.09% -39.63% 05:29 USD/t.oz

Palladium

Cryptocurrencies



Crypto	Price	Day 🔒	%
Chainlink	7.6403	▼ 0.3667	-4.58%
Polkadot	7.25	▼ 0.29	-3.84%
Cosmos	13.86	▼ 0.53	-3.67%
Bitcoin Cash	140.04	▼ 5.22	-3.59%
Algorand	0.27	▼ 0.01	-3.41%
Stellar	0.09195	▼ 0.00267	-2.82%
Uniswap	6.87	▼ 0.16	-2.22%

European 10-Year Sovereign Yields



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COUNTRY	YIELD	1 DAY	1 MONTH
Germany »	2.56%	+4	+39
United Kingdom »	3.67%	+7	+29
France	3.05%	+4	+43
Italy	4.52%	+6	+54



MACRO GRIND

Sector Performance

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			<u>1-Day %</u>	<u>MTD %</u>	QTD %	<u>YTD %</u>
SECTOR	Ticker	Price	Chg	Chg	Chg	Chg
Consumer Discretionary	XLY	\$145.54	-3.34%	-2.13%	12.68%	12.68%
Financial Select Sector	XLF	\$35.64	-2.06%	-2.52%	4.21%	4.21%
Health Care Select Sector	XLV	\$130.28	-1.30%	-2.31%	-4.10%	-4.10%
Technology Select Sector	XLK	\$136.50	-2.37%	0.40%	9.6 9%	9.69%
Consumer Staples Select Sector	XLP	\$73.40	-0.38%	-0.46%	-1.54%	-1.54%
Industrial Select Sector	XLI	\$100.67	-2.29%	-1.16%	2.50%	2.50%
Materials Select Sector	XLB	\$79.96	-1.65%	-5.54%	2.94%	2.94%
The Energy Select Sector	XLE	\$84.07	-0.50%	-6.52%	-3.89%	-3.89%
Utilities Select Sector	XLU	\$67.20	-1.87%	-2.74%	-4.68%	-4.68%
Real Estate Select Sector	XLRE	\$38.83	-1.97%	-4.34%	5.14%	5.14%
Communications Services Sector	XLC	\$54.13	-2.20%	-1.72%	12.79%	12.79%
S&P 500	SPX	3,997.34	-2.00%	-1.94%	4.11%	4.11%

Sector Relative Performance



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			<u>1-Day %</u>	<u>MTD %</u>	QTD %	<u>YTD %</u>
	<u>Ticker</u>	Price	Chg	Chg	<u>Chg</u>	Chg
Consumer Discretionary	XLY	\$145.54	-1.34%	-0.18%	8.57%	8.57%
Financial Select Sector	XLF	\$35.64	-0.06%	-0.57%	0.10%	0.10%
Health Care Select Sector	XLV	\$130.28	0.71%	-0.37%	-8.21%	-8.21%
Technology Select Sector	XLK	\$136.50	-0.37%	2.34%	5.58%	5.58%
Consumer Staples Select Sector	XLP	\$73.40	1.62%	1.48%	-5.65%	-5.65%
Industrial Select Sector	XLI	\$100.67	-0.29%	0.79%	-1.61%	-1.61%
Materials Select Sector	XLB	\$79.96	0.36%	-3.60%	-1.18%	-1.18%
The Energy Select Sector	XLE	\$84.07	1.51%	-4.57%	-8.00%	-8.00%
Utilities Select Sector	XLU	\$67.20	0.13%	-0.79%	-8.79%	-8.79%
Real Estate Select Sector	XLRE	\$38.83	0.03%	-2.39%	1.03%	1.03%
Communications Services Sector	XLC	\$54.13	-0.20%	0.22%	8.68%	8.68%



Market Share Volume & Total Value Traded

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INDEX/SECURITY	VOLUME:	2/21 vs.		
	Prior Day	1M Ave	<u>3M ave</u>	1Y Ave
Total Market Volume*	9%	-5%	-8%	- 20%
Total Exchange Volume**	3%	-4%	0%	-6%

*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	3 M	6M	YID
	FACTOR	% Chg					
Debt	High Debt/EV	-2.3%	-3.0%	-0.6%	0.9%	-0.9%	5.2%
ă	Low Debt/EV	-2.2%	-3.2%	1.2%	2.1%	1.8%	5.8%
SI	High Short Interest	-2.8%	-4.0%	1.2%	2.7%	1.3%	8.9%
~	Low Short Interest	-1.7%	-2.3%	-0.3%	-0.9%	-0.6%	1.2%
BETA	High Beta	-3.1%	-4.6%	2.2%	5.8%	2.5%	12.6%
8	Low Beta	-0.8%	-1.2%	-0.2%	-2.3%	-1.5%	-1.4%
VIELD	High Yield	-2.1%	-3.7%	-2.0%	-2.5%	-6.6%	1.4%
7	Low Yield	-2.4%	-3.3%	2.4%	6.0%	5.1%	10.7%
MKT	MCAP Bottom 25%	-2.7%	-4.0%	-0.6%	1.5%	-1.8%	6.0%
ΣŨ	MCAP Top 25%	-1.8%	-3.1%	-0.1%	0.4%	1.2%	3.4%
Sales	Top 25% Sales Growth	-2.1%	-3.4%	1.7%	5.2%	4.5%	9.2%
Sa	Bottom 25% Sales Growth	-2.1%	-3.6%	-1.0%	-1.6%	-0.5%	2.5%
EPS	Top 25% EPS Growth	-2.4%	-3.6%	0.4%	4.2%	2.8%	8.2%
	Bottom 25% EPS Growth	-2.1%	-3.7%	-0.7%	-1.1%	0.8%	3.7%

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

Key \$USD Correlations



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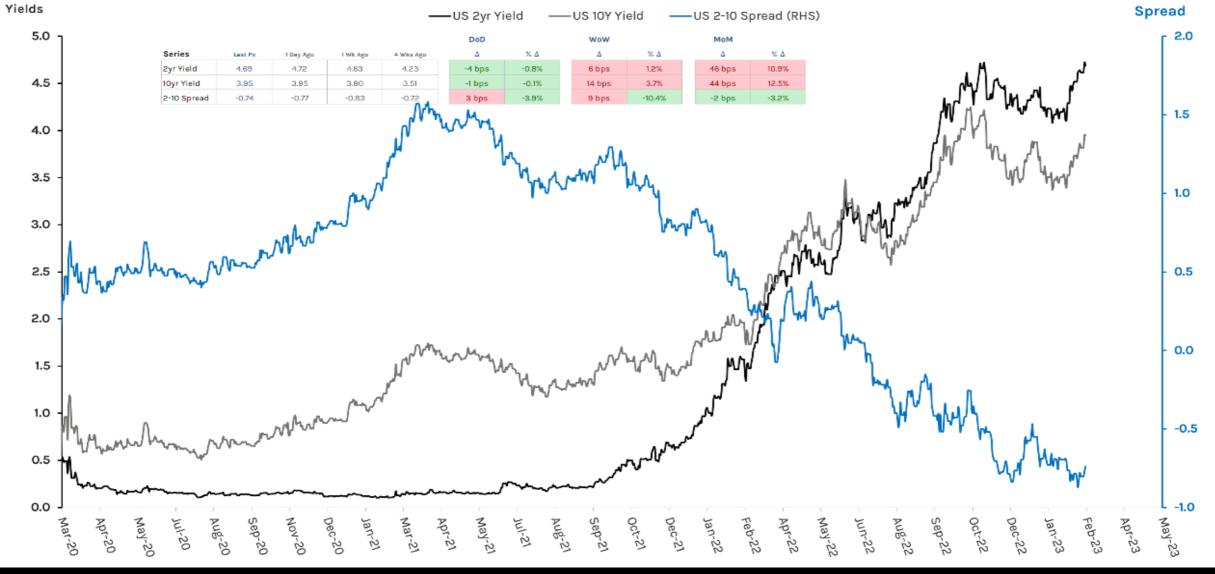
		52-Wk Rolling 30D Correlation							
METRIC	15D	30D	90D	120D	180D	High	Low	% Time Pos	% Time Neg
SPX	0.27	0.67	-0.57	-0.67	-0.39	0.70	-0.92	31%	69%
BRENT Oil	0.09	-0.45	0.69	0.68	0.17	0.76	-0.85	30%	70%
CRB Index	-0.43	-0.79	0.01	0.68	-0.03	0.84	-0.87	30%	70%
GOLD	-0.89	-0.96	-0.96	-0.95	-0.94	0.57	-0.96	7%	93%



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U.S. Yield Curve



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Market's Expected Number of Rate Hikes by May 2023

Implied Rate Hikes Implied Rate Hikes 10.0 Since The Last Rate Hike, the Market Expects +0.90 More Hikes. 9.0 8.0 7.0 6.0 5.0 4.0 3.0 Rate Hike of 2.17 Rate Hike of **75 BPS** Rate Hike of 2.0 **75 BPS 50 BPS** Rate Hike of Rate Hike of 1.0 **75 BPS** 25 BPS 0.0 6/24/2022 712412022 8/13/2022 8|23|2022 9/12/2022 9/22/2022 10/12/2022 10/22/2021 11/1/2022 11/11/2022 11/21/2022 12/11/2022 12/31/2022 1/20/2023 1/30/2023 2/19/2023 3/21/2023 3/31/2023 4|30|2023 71412022 8|3|2022 9/2/2022 10/2/2022 12/21/2022 1/10/2023 3/1/2023 3/11/2023 4/10/2023 4/20/2023 7/1/4/2022 12/1/2022 21912023

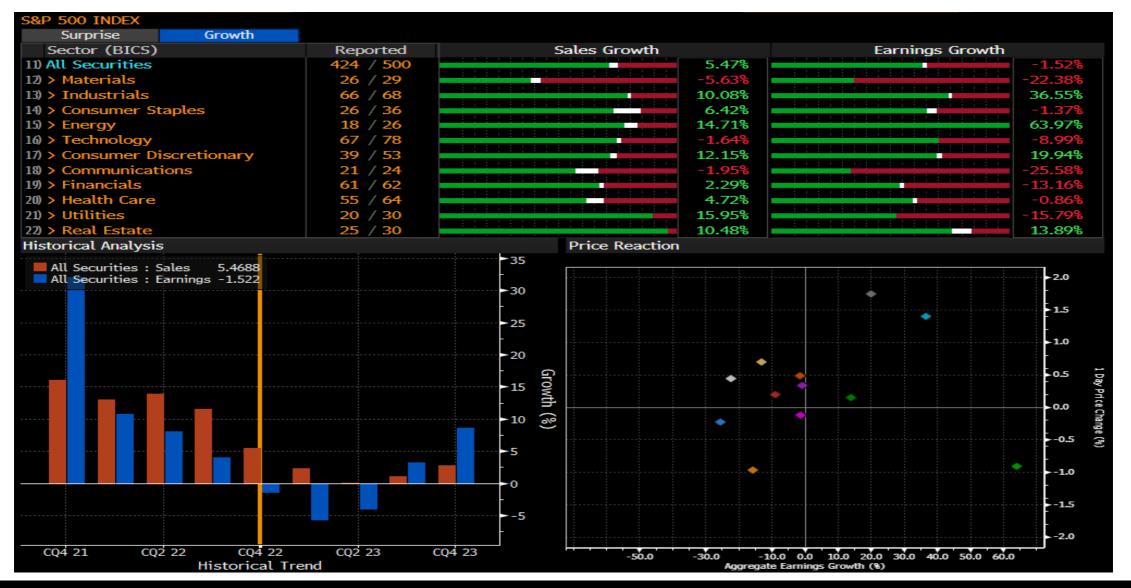
DATA SOURCE: BLOOMBERG

S&P 500 Sales & Earnings Growth



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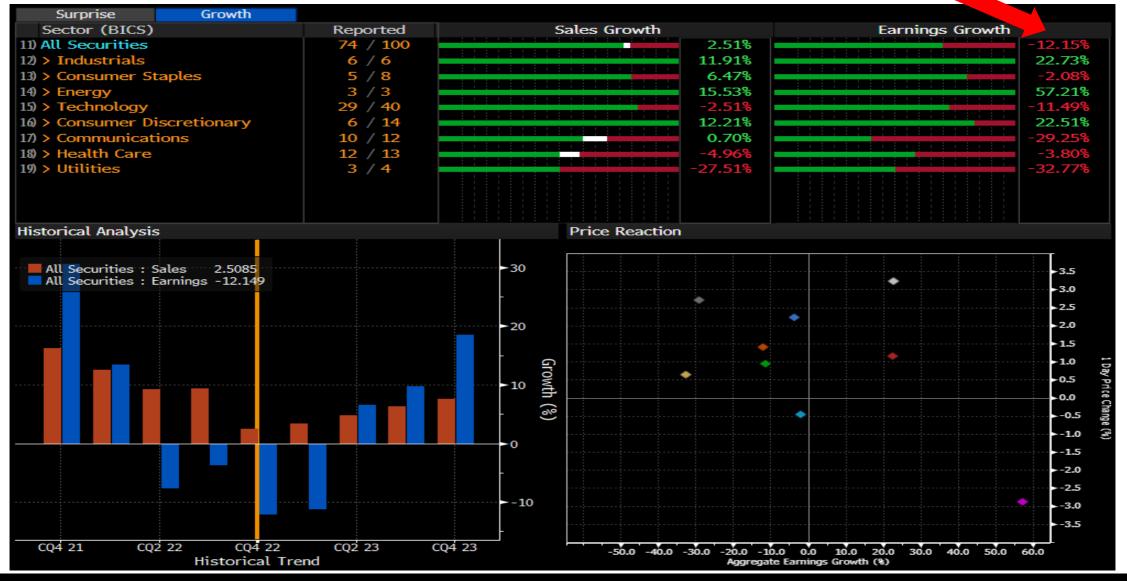




QQQ Sales & Earnings Growth

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CFTC Non-Commercial Net Long Positioning (Updated weekly)

CFTC data continues to be delayed



VOLATILITY



Implied & Realized Volatility

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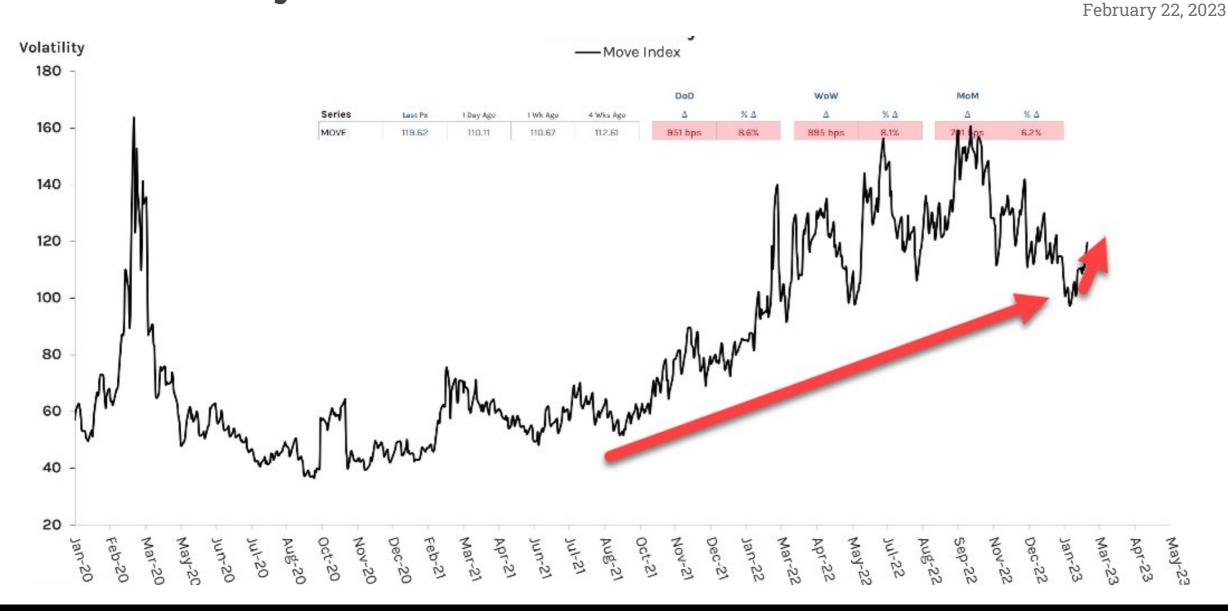
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TIME WINDOW SETTING:		TOTAL RETURN	IVOL PREMIUM/D	ISCOUNT				F	REALIZED VOLATILI	TY TRENDS		IMPLIED VOLATILI	TY TRENDS	
VOLATILITY_30D		PERFORMANCE	IVOL PREM %						RVOL		PERCENTILE	IVOL		PERCENTILE
PUT_IMP_VOL_30D	TICKER	YTD %	IVOL / RVOL	Yesterday	1W Ago	1M Ago	TTM Z-Score	3Yr Z-Score	CURRENT	MM %	10YR	CURRENT	MM %	10YR
US EQUITIES			CURRENT											
Communication Services SPDR ETF	XLC US EQUITY	12.79%	-14%	-18%	-20%	-7%	-0.3	-0.7	30.7	26%	82%	26.4	16%	69%
Consumer Discretionary Sector SPDR ETF	XLY US EQUITY	12.68%	7%	0%	-2%	-2%	0.7	-0.1	27.7	16%	87%	29.6	26%	90%
Power Shares QQQ Trust ETF	QQQ US EQUITY	10.42%	6%	0%	-5%	-4%	1.0	-0.1	25.7	6%	78%	27.1	16%	86%
Technology Sector SPDR ETF	XLK US EQUITY	9.69%	15%	17%	3%	-6%	1.5	0.4	24.1	-10%	72%	27.8	11%	85%
I-Shares Russell 2000 ETF	IWM US EQUITY	7.50%	18%	17%	8%	5%	1.2	0.5	21.2	0%	70%	25.0	12%	79%
Real Estate Sector SPDR ETF	XLRE US EQUITY	5.14%	23%	18%	-4%	-13%	1.7	0.8	20.2	-22%	73%	24.9	10%	83%
SPDR S&P 500 ETF Trust	SPY US EQUITY	4.36%	21%	14%	2%	-7%	1.8	0.5	17.0	-11%	69%	20.6	16%	84%
Financials Sector SPDR ETF	XLF US EQUITY	4.21%	38%	28%	15%	10%	1.1	0.8	14.9	-14%	39%	20.7	8%	71%
Materials Sector SPDR ETF	XLB US EQUITY	2.94%	37%	6%	14%	8%	1.1	0.5	17.3	-23%	58%	23.7	-3%	74%
Industrials Sector SPDR ETF	XLI US EQUITY	2.50%	42%	39%	23%	8%	1.4	0.8	16.6	-16%	61%	23.5	11%	82%
Consumer Staples Sector SPDR ETF	XLP US EQUITY	-1.54%	14%	-5%	-15%	0%	-0.4	-0.4	13.4	-16%	67%	15.2	-5%	71%
Energy Sector SPDR ETF	XLE US EQUITY	-3.89%	7%	4%	5%	4%	0.1	0.2	27.8	4%	67%	29.8	7%	71%
Health Care Sector SPDR ETF	XLV US EQUITY	-4.10%	57%	15%	10%	19%	3.0	1.4	11.9	-16%	34%	18.7	10%	78%
Utilities Sector SPDR ETF	XLU US EQUITY	-4.68%	10%	3%	20%	1%	-0.2	-0.1	16.8	-9%	69%	18.5	-1%	76%
INTERNATIONAL EQUITIES														
Euro Stoxx 50 Index	SX5E INDEX	11.63%	46%	36%	25%	-18%	1.8	1.6	12.0	-40%	23%	17.5	7%	55%
I-Shares MSCI Japan ETF	EWJ US EQUITY	3.45%	27%	22%	3%	1%	1.6	0.9	13.6	-22%	37%	17.3	-2%	59%
I-Shares MSCI Emerging Markets ETF	EEM US EQUITY	3.38%	40%	20%	3%	-4%	0.6	0.8	14.7	-20%	24%	20.5	17%	63%
I-Shares China Large-Cap ETF	FXI US EQUITY	3.14%	19%	15%	-4%	-20%	1.0	1.1	27.0	-26%	69%	32.2	10%	89%
CURRENCIES														
PowerShares US Dollar Index ETF	UUP US EQUITY	1.33%	46%	35%	16%	18%	0.6	0.5	7.2	-20%	68%	10.6	-1%	90%
Currency Shares British Pound ETF	FXB US EQUITY	0.55%	21%	11%	1%	-5%	0.9	0.9	8.6	-19%	57%	10.4	2%	76%
Currency Shares Euro Trust ETF	FXE US EQUITY	-0.52%	16%	11%	-5%	-3%	1.0	0.9	7.3	-16%	50%	8.4	1%	68%
Currency Shares Japanese Yen ETF	FXY US EQUITY	-2.84%	-4%	-7%	-15%	-26%	-0.4	-0.5	13.4	-29%	90%	12.9	-7%	88%
COMMODITIES														
iPath Coffee Subindex ETN	JO US EQUITY	14.31%	-5%	-11%	-4%	-11%	-1.1	-0.9	39.0	-4%	82%	37.2	3%	59%
iPath Cocoa Subindex ETN	NIB US EQUITY	7.68%	103%	153%	263%	17%	0.9	1.9	18.6	-30%	13%	37.7	22%	86%
SPDR Gold Shares ETF	GLD US EQUITY	0.58%	2%	-3%	-12%	0%	-0.2	-0.2	14.3	-4%	57%	14.5	-2%	53%
Teucrium Corn ETF	CORN US EQUITY	-0.52%	28%	29%	20%	21%	-0.3	-0.2	12.3	-11%	12%	15.7	-6%	8%
United States Oil Fund ETF	USO US EQUITY	-4.88%	23%	18%	8%	14%	0.4	0.3	29.2	-9%	49%	36.0	-1%	63%
United States Natural Gas Fund ETF	UNG US EQUITY	-48.87%	18%	5%	-3%	-4%	0.1	0.1	80.2	-11%	93%	94.7	9%	96%
FIXED INCOME														
I-Shares 20+ Year Treasury Bond ETF	TLT US EQUITY	1.09%	7%	-1%	-6%	-12%	0.6	0.1	18.4	-17%	87%	19.8	1%	92%
I-Shares IBOXX IG Corporate Bond ETF	LQD US EQUITY	0.39%	14%	11%	-1%	-8%	1.2	0.1	10.4	-12%	88%	11.9	9%	93%
I-Shares IBOXX HY Corporate Bond ETF	HYG US EQUITY	0.18%	29%	23%	-1%	-12%	1.3	0.3	9.0	-19%	77%	11.7	19%	87%
I-Shares 7-10 Year Treasury Bond ETF	IEF US EQUITY	-0.23%	7%	0%	-7%	-6%	0.5	-0.4	9.3	-10%	89%	10.0	2%	90%
I-Shares J.P. Morgan USD EM Bond ETF	EMB US EQUITY	-0.26%	18%	8%	5%	30%	0.9	0.1	12.5	-1%	84%	14.8	-9%	90%
MEGA-CAP														
Apple	AAPL US EQUITY	14.45%	22%	20%	15%	3%	1.4	0.8	24.5	-22%	49%	29.8	-8%	70%
Microsoft	MSFT US EQUITY	5.62%	-8%	-16%	-22%	-1%	0.1	-0.4	33.4	5%	79%	30.6	-2%	84%
Alphabet	GOOGL US EQUITY	4.03%	-28%	-33%	-31%	17%	-0.9	-1.0	49.4	54%	97%	35.4	-6%	89%
Amazon	AMZN US EQUITY	12.60%	-18%	-23%	-23%	22%	-0.4	-0.7	49.0	24%	89%	40.0	-17%	80%
Facebook	META US EQUITY	42.99%	-41%	-47%	-43%	58%	-0.9	-1.3	71.8	95%	94%	42.0	-28%	79%
Tesla	TSLA US EQUITY	60.23%	4%	2%	8%	-21%	0.3	0.0	71.8	-16%	83%	75.0	10%	90%



The Macro Show

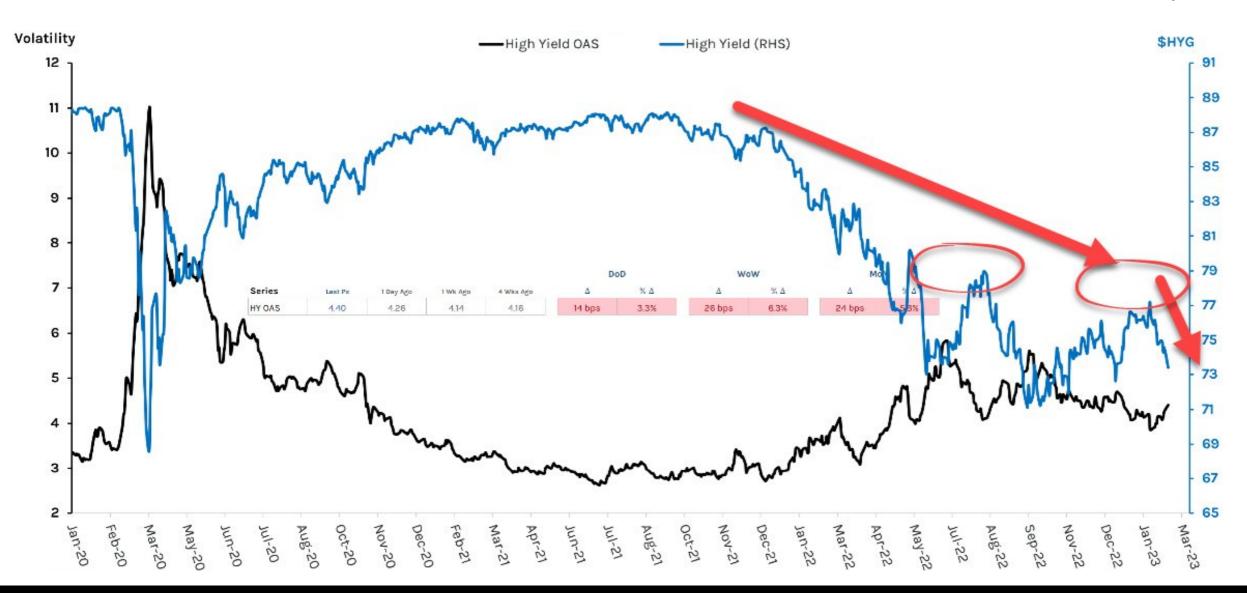
Bond Volatility (MOVE Index)





High Yield Market Volatility

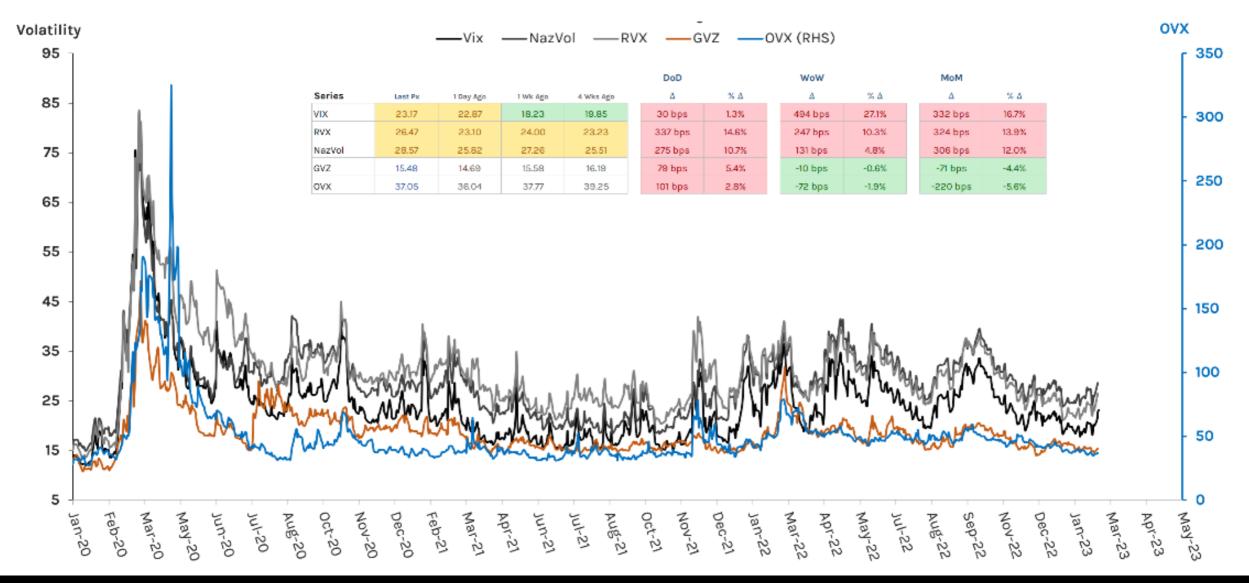
The Macro Show February 22, 2023



HEDGEYE TV

The Macro Show

February 22, 2023



DATA SOURCE: CBOE

Macro Volatility



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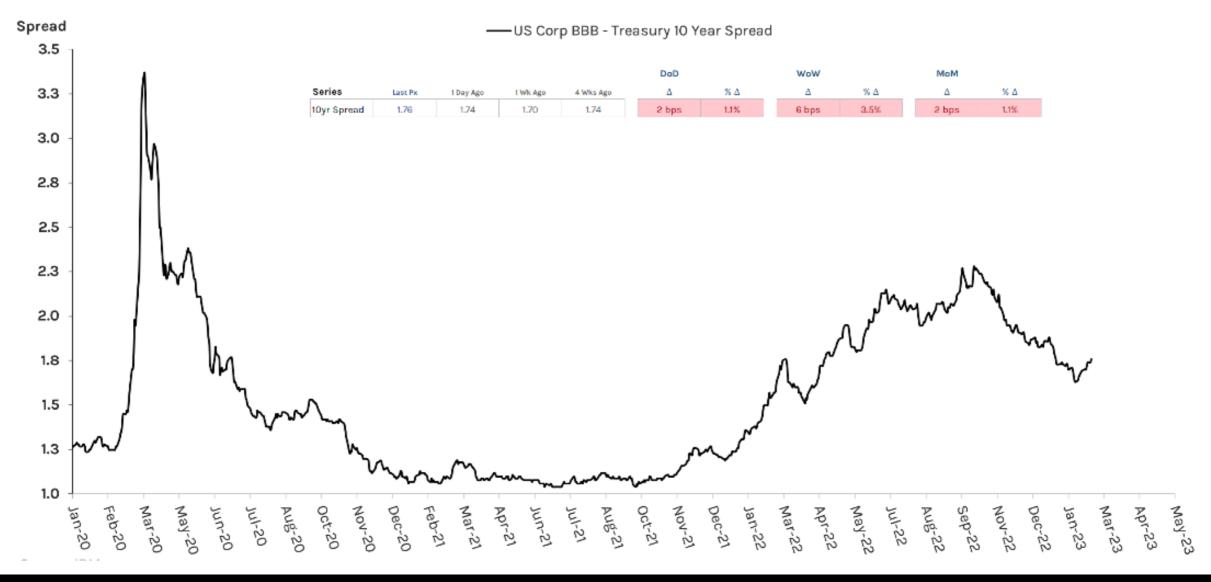
Global Currency Volatility





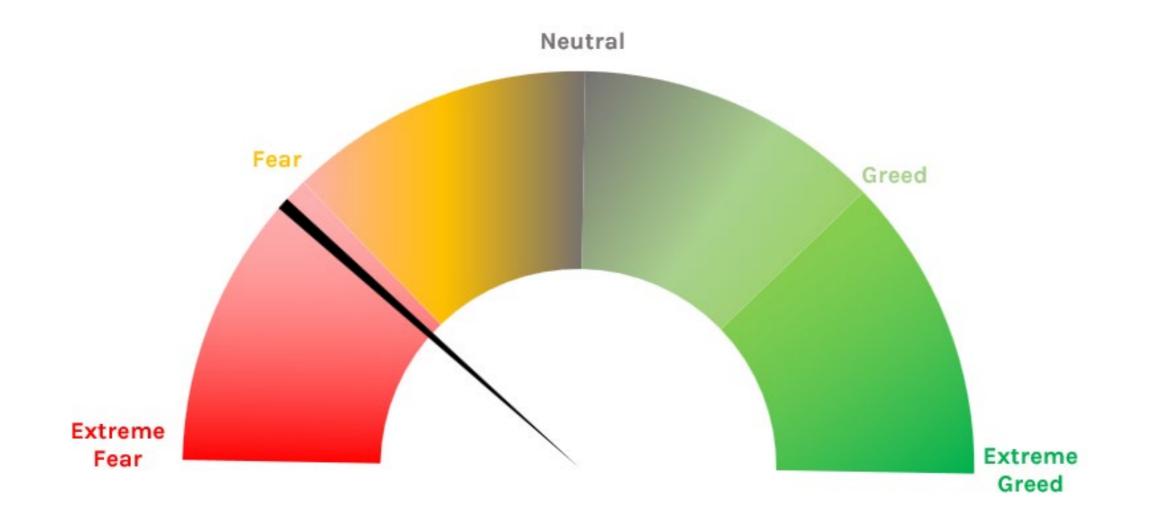
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10YR BBB Corporate Spread



The Hedgeye Nation Anxiety Meter[™]







HEDGEYE EVENTS

COMING SOON ON HEDGEYE TV

FEBRUARY 22TH | 11:00AM ET

MACRO THEMES COACHING SESSION

Hedgeye CEO Keith McCullough gives a broad recap of Macro Themes to Hedgeye Risk Manager Subscribers

FEBRUARY 23TH | 11:00AM ET

REAL CONVERSATIONS

Hedgeye CEO Keith McCullough welcomes CIO David Dorr, Dorr Asset Management, for a Real Conversation

FEBRUARY 23TH | 2:00PM ET

INDUSTRIALS PRO

The Industrial team host a themes update, available as bonus content to Pro subscribers

FEBRUARY 24TH | 11:30AM ET

#HEDGEYENATION

Robert McGroarty digs into the Hedgeye process in his weekly Beginner's Guide webcast

FEBRUARY 24TH | 10:00AM ET

CONSUMABLES PRO

The Consumables team hosts their monthly Q&A call

FEBRUARY 27TH | 10:00AM ET

TECHNOLOGY PRO

The Technology team hosts a Fireside Chat with a guest speaker

IN CASE YOU MISSED IT HEDGEYETV

FEBRUARY 21TH

RETAIL PRO

The Retail team updates the latest signals on their best ideas

FEBRUARY 16TH

HEALTH POLICY UNPLUGGED

Health Policy analyst Emily Evans hosts another Venture View with Marcus Whitney

FEBRUARY 13TH

CONSUMABLES PRO

Howard Penney hosts a Cannabis Fireside Chat with a guest speaker

FEBRUARY 17TH

#HEDGEYENATION

Robert McGroarty digs into the Hedgeye process in his weekly Beginner's Guide webcast

FEBRUARY 16TH

SECTOR HEAD SPOTLIGHT

Robert McGroarty interviews a Hedgeye sector head about their history and process

FEBRUARY 13TH

RETAIL PRO

The Retail team hosts their weekly idea update for subscribers