HEDGEYE



HEDGEYE'S CURRENT MARKET OUTLOOK

ON TILT | PHASE III, REITERATED

May 8, 2023



MACRO THEMES

#Quad4 Profit Recession Reiterated

#Quad4 Credit Event Reiterated

Long Gold Reiterated

Legal



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Q2 2023 Macro Themes



1

#Quad4 Profit Recession Reiterated

New Quarter, Same TREND as the slowest moving Quad4 wreck in modernity continues to soldier southward. Lost pricing power, tighter credit, contracting liquidity, negative real income growth, deteriorating real discretionary consumption capacity and rolling credit events continue to define the local (& global) macro trajectory, and the trajectory of the domestic profit cycle by extension. We'll detail the fragility and trap door risk associated with the progressive hollowing out of underlying conditions and update the outlook and risk management playbook as Phase III of the Bear Market remains in conspicuous motion.

2

#Quad4 Credit Event Reiterated

The stressors of Quad 4 have been building for some time and the pressure in the system has reached a critical threshold. Bank runs triggered by long-duration assets funded with fickle, uninsured liabilities are simply the latest symptom. The next phase of the credit cycle will reflect further tightening in credit availability and deteriorating credit quality at both the household and commercial level. Still-too-high inflation coupled with persistent labor market imbalances and that will keep the pressures in the system simmering. So long as Quad 4 remains the trajectory and cost, availability and quality of credit continue to deteriorate, credit event risk will simply remain a when, not an if.

3

Long Gold Reiterated

Any port in a storm? How about the Quad 4 port trifecta of Gold, \$USD, Duration. While most commodity prices have been collapsing under Quad 4 demand destruction (oil, anyone?), gold has been doing what it should do in Quad 4 ... a) not lose value and b) push slowly, steadily higher. While the full economic fallout of policy mismanagement has yet to play out, the downstream reaction function is increasingly coming into focus. Not only is Gold a port in the storm, but investors know the policy reaction function down the road will be to print. Knowing this, Gold reacts accordingly.

What Are The Quads?

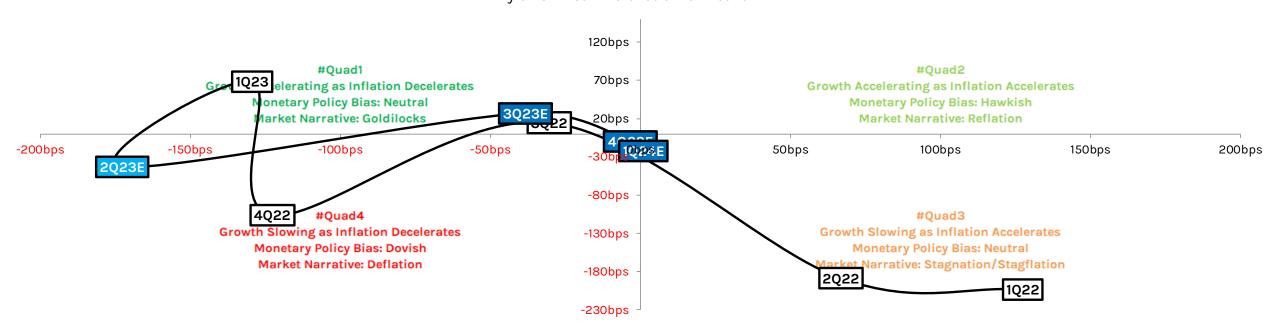


Our GIP Model is a quantitatively oriented, regime-based framework that helps investors proactively prepare for volatility phase transitions within and across asset classes by triangulating the three factors that matter most to Macro Risk Management – i.e. GROWTH, INFLATION, and POLICY.

United States	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	1Q22	2Q22	3Q22	4Q22	1Q23	← Actuals Estimates →	2Q23E	3Q23E	4Q23E	1Q24E
Real GDP QoQ SAAR	-29.90%	35.30%	3.90%	6.30%	7.00%	2.70%	7.00%	-1.60%	-0.60%	3.20%	2.60%	1.10%	Real GDP QoQ SAAR	-2.25%	4.35%	2.17%	0.17%
Real GDP YoY	-8.35%	-2.02%	-1.52%	1.19%	12.46%	4.96%	5.72%	3.68%	1.80%	1.94%	0.88%	1.56%	Real GDP YoY	1.14%	1.40%	1.30%	1.08%
2yr Comparative Base Effects	2.70%	2.73%	2.44%	1,49%	- 3.11%	0.14%	0.53%	1,01%	2.06%	1.47%	2.10%	2.44%	2yr Comparative Base Effects	7 .13%	3.45%	3.30%	2.62%
Headline CPI YoY	0.36%	1.22%	1.24%	1.90%	4.85%	5.34%	6.69%	7.96%	8.63%	8.33%	7.10%	5.81%	Headline CPI YoY	4.08%	3.70%	3.67%	3.68%
2yr Comparative Base Effects	2.26%	2.20%	2.12%	1.88%	109%	149%	1 64%	2.01%	2.61%	3.28%	3.96%	4.93%	2yr Comparative Base Effects	6.74%	6.83%	6.90%	6.89%

United States

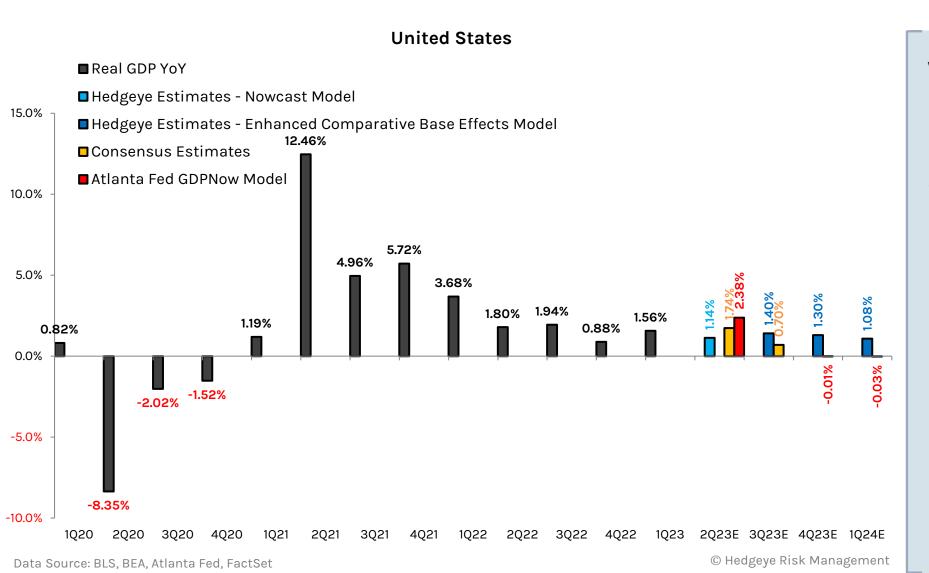
→x-axis: First Difference of YoY Headline CPI; y-axis: First Difference of YoY Real GDP



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

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US Real GDP YoY Projections



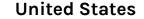
We use two distinct models to forecast the YoY growth rate of Real GDP and the combination of the two allows us to develop both a highly accurate real-time assessment of near-term economic momentum, as well as a high-probability scenario for where growth is likely to trend over the NTM.

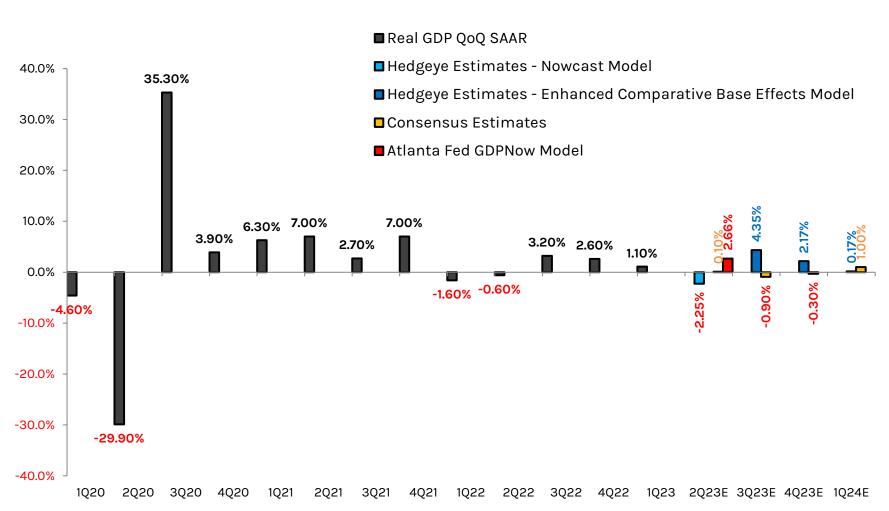
Intra-quarter, we employ a stochastic nowcasting framework that anchors on nonlinear interpolation to relay rate of change signals from the individual features of the dynamic factor model to the base rate. In out-quarters where high-frequency data has yet to be reported, we employ a Bayesian Inference process that adjusts each of the preceding forecasted base rates inversely and proportionally to changes in the base effects.

All told, our US GDP nowcast model has an average absolute forecast error of 55bps and an 85% success rate in terms of accurately projecting the rate of change of GROWTH.

US Real GDP QoQ SAAR Projections







One differentiating factor of our forecasting process is that we aim to solve for where the economy is trending on a **Full Investing Cycle** basis, rather than trying to identify super short-term economic momentum.

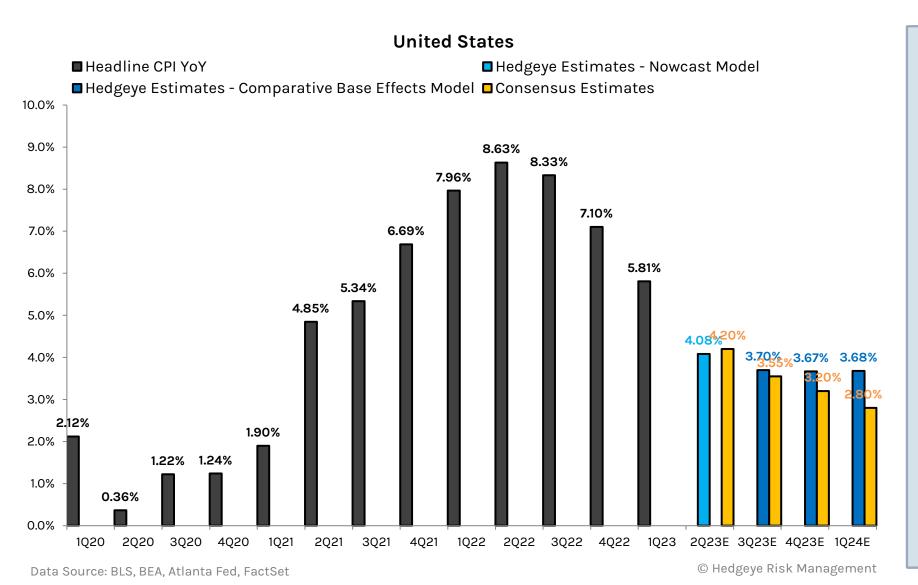
Our rigorous study of financial market history suggests the latter to be little more than noise in the context of making accurate intermediate-to-long-term investment decisions.

As such, we are comfortable departing from the [perceived] "best" practices of economist consensus by interpolating our QoQ SAAR forecasts from our forecasted YoY growth rates. Macroeconomic Theory \neq Macro Risk Management.

© Hedgeye Risk Management

Data Source: BLS, BEA, Atlanta Fed, FactSet

US Headline CPI YoY Projections



We use two distinct models to forecast the YoY growth rate of Headline CPI and the combination of the two allows us to develop both a highly accurate real-time assessment of near-term inflation momentum, as well as a high-probability scenario for where inflation is likely to trend over the NTM.

Intra-quarter, we employ a stochastic nowcasting framework that anchors on nonlinear interpolation to relay rate of change signals from the individual features of the dynamic factor model to the base rate. In out-quarters where high-frequency data has yet to be reported, we employ a Bayesian Inference process that adjusts each of the preceding forecasted base rates inversely and proportionally to changes in the base effects.

All told, our US CPI nowcast model has an average absolute forecast error of 36bps and an 85% success rate in terms of accurately projecting the rate of change of INFLATION.

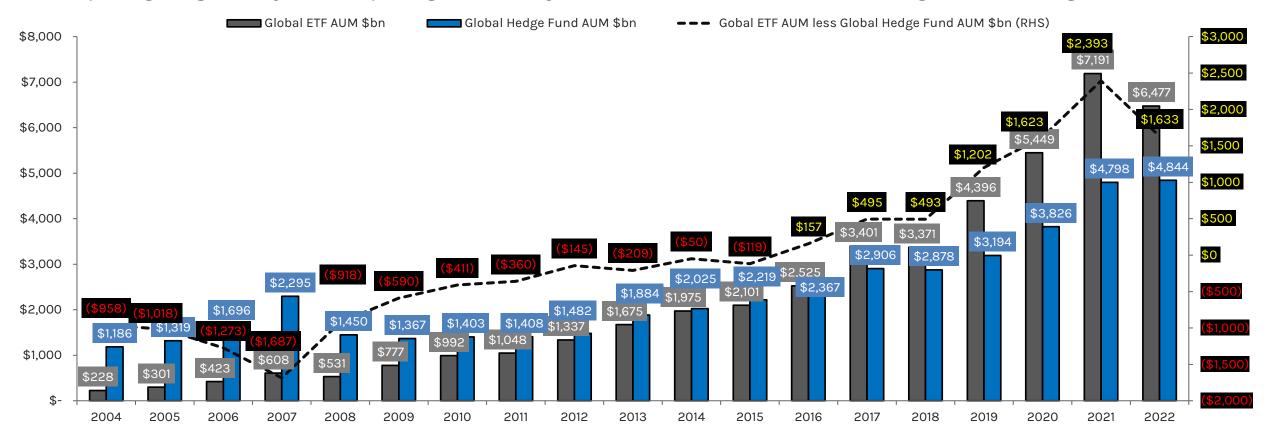
OUR MACRO PROCESS



The Investment Landscape Has Evolved Tremendously



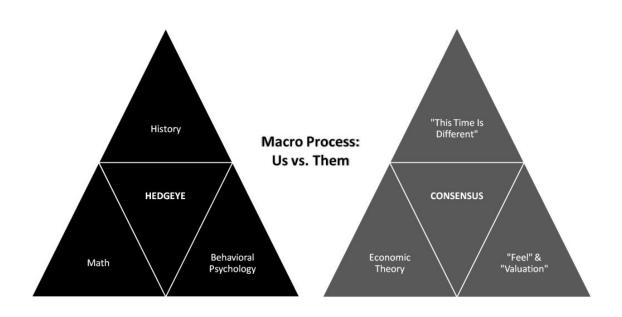
Stock-picking has given way to factor-picking and it's our job as investors to embrace this sea change, rather than fight it.

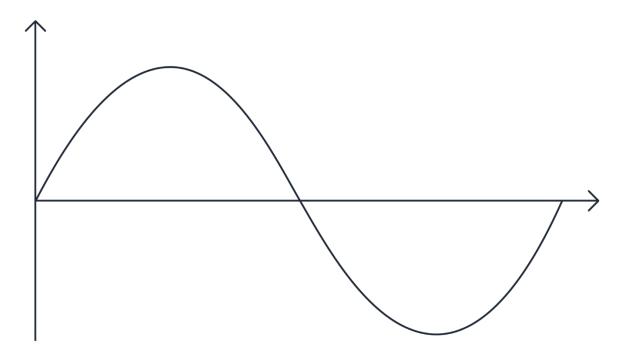


Skate To Where The Puck Is Going Within Asset Management

AUM in listed ETFs surpassed \$7.1 trillion globally as of Q4 2021, topping global hedge fund assets by over \$2.3 trillion. Moreover, since 2015 ETF AUM has increased 208% with net assets from Hedge funds to ETFs increasing 940% since 2016. The proliferation of factor-based index investing and the concentration of hedge fund AUM at market-neutral platforms has made financial markets more sensitive to Macro risks than ever before. For example, JPM estimates systematic trading accounts for over 90% of US equity trading volume. Are your research and risk management processes equipped to compete for alpha in this new regime?

... So We Evolved Alongside It





WE ARE DIFFERENTIATED FROM THE HERD

Macroeconomic Research and Macro Risk Management are two very different fields. We specialize in the latter, incorporating key lessons from behavioral finance such as Prospect Theory and Bayesian Inference into our analysis. We don't "feel" anything with regards to the markets or the economy; if we can't contextualize it with math, we don't have a view on it.

...BECAUSE WE FOCUS ON THE FACTS

Rate of change accelerations and decelerations are facts, not opinions, and our process is focused on contextualizing these facts, rather opining on the validity of absolute levels of growth, inflation, and/or policy. This focus helps us consistently spot inflections in the performance of key factor exposures, across asset classes, 3-6 months ahead of investor consensus.

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

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:

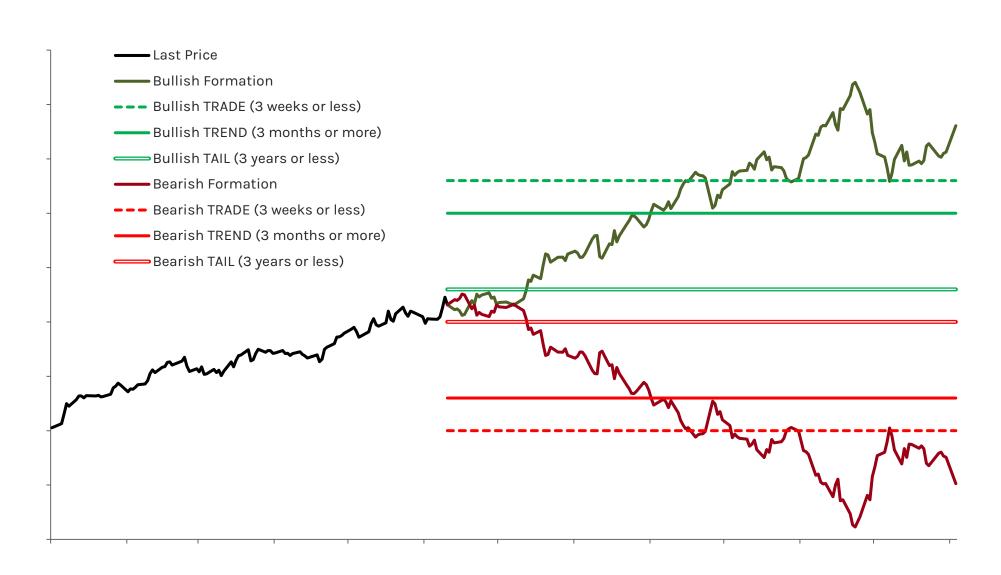
Long Bond, Treasury Belly, IG Credit, Munis, MBS

Worst Fixed Income Sectors:

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

The Quads Provide A Reliable Starting Point For Asset Allocation And Keith's Quantitative Signaling Overlay Confirms Market Direction And Helps Risk Manage Core Exposures





Core to the process of selecting our core exposures is determining whether the ticker screens well from the perspective of Keith's proprietary risk management process, which employs PRICE, VOLUME and VOLATILITY as discrete factors in the calculus of levels that backtest well as critical momentum thresholds.

Assets where last price is greater than all three (in ascending order) are said to be in a "Bullish Formation" and all dips should be bought, insomuch that assets in the converse "Bearish Formation" should be repeatedly shorted on strength.

A | B Testing Process: Quantify Investor Consensus



Monitoring Sector and Style factor Performance allows us to quantitatively track the evolution of our Macro Themes. Additionally, MEASURING and MAPPING key data sets within the CFTC COT report removes the qualitative guesswork from the process of tracking and ultimately FADING crowded positioning.

STYLE FACTOR PERFORMANCE*

		1D	1W	1M	3M	6M	YTD
	FACTOR	% Chg	% Chg	% Chg	% Chg	% Chg	% Chg
Debt	High Debt/EV	2.6%	-2.4%	-1.6%	-10.7%	-1.0%	-2.4%
De	Low Debt/EV	1.2%	-1.2%	-1.9%	1.0%	10.7%	8.6%
SI	High Short Interest	2.4%	-1.9%	-3.3%	-8.6%	1.4%	1.2%
	Low Short Interest	1.3%	-1.0%	0.5%	-1.3%	4.5%	2.3%
BETA	High Beta	2.4%	-2.3%	-4.8%	-6.7%	8.6%	7.4%
BE	Low Beta	1.1%	-0.6%	2.3%	-0.2%	1.2%	-0.4%
YIELD	High Yield	2.3%	-3.1%	-3.0%	-12.1%	-6.6%	-7.1%
YIE	Low Yield	1.5%	-0.7%	-1.7%	-0.5%	11.9%	10.6%
MKT	MCAP Bottom 25%	2.0%	-2.9%	-4.0%	-12.5%	-2.8%	-3.2%
Σΰ	MCAP Top 25%	1.6%	-1.2%	0.3%	0.3%	8.1%	5.6%
Sales	Top 25% Sales Growth	1.7%	-1.5%	-1.7%	-1.2%	10.6%	9.2%
Sa	Bottom 25% Sales Growth	2.3%	-2.3%	-2.5%	-9.9%	-3.2%	-4.8%
EPS	Top 25% EPS Growth	1.7%	-1.7%	-1.3%	-4.3%	7.5%	6.2%
ш	Bottom 25% EPS Growth	2.2%	-2.1%	-2.6%	-8.7%	-1.4%	-3.2%

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

							31	7	Z-Score		
	METRIC	Latest	W/W Chg	3M Ave	6M Ave	1Y Ave	Max	Min	1Y	3Y	
	SPX (Index + E-mini)	(354,744)	(6,468)	(235,967)	(200,367)	(165,291)	248,601	(354,744)	-1.91X	-2.31	
ES	VIX	(79,979)	1,871	(59,974)	(63,731)	(67,585)	(26,748)	(163,238)	-0.72X	-0.16	
E	Russell 2000 (mini)	(57,544)	(7,317)	(54,371)	(59,244)	(77,489)	46,446	(120,386)	0.86X	-0.53	
EQUITIES	Dow Jones (mini)	(21,023)	4,665	(18,458)	(14,024)	(15,454)	9,207	(28,732)	-0.82X	-1.20	
	Nasdaq (mini)	14,752	7,229	(8,439)	(4,386)	5,689	47,085	(133,005)	0.57X	0.43	
	Nikkei Index	(3,005)	(433)	(2,369)	(2,631)	(2,264)	4,738	(9,401)	-0.40X	-0.17	
	10Y UST	(746,376)	(49,239)	(589,286)	(469,508)	(355,787)	238,882	(746,376)	-2.28X	-2.65	
S	2Y UST	(632,487)	(84,552)	(583,442)	(552,566)	(380,874)	86,786	(708,168)	-1.27X	-2.17	
Ξ	5Y UST	(983,240)	(58,364)	(727,496)	(675,401)	(512,965)	148,962	(983,240)	-2.26X	-3.02	
RATES	UST Bonds	(91,788)	7,539	(138,115)	(140,584)	(98,544)	49,853	(241,003)	$\theta.11X$	0.17	
_	30D Fed Funds	(40,137)	50,471	(117,544)	(86,563)	(13,282)	488,558	(320,917)	-0.29X	-0.28	
	Eurodollar	(11,233)	(9,438)	(545,070)	(630,802)	(808,224)	1,039,687	(1,411,302)	2.58X	0.49	
	\$USD	11,330	612	12,397	16,553	26,511	44,971	(15,000)	-1.35X	-0.26	
IES	JPY	(76,116)	(5,499)	(59,228)	(51,569)	(61,316)	52,239	(117,217)	-0.64X	-0.76	
	EUR	182,451	3,083	174,328	162,367	83,470	212,535	(47,358)	1.14X	1.37	
Š	GBP	204	(5,045)	(15,084)	(20,270)	(37,874)	40,671	(79,646)	1.73X	0.58	
CURRENCIES	AUD	(46,187)	(5,420)	(34,660)	(36,848)	(41,520)	15,665	(94,816)	-0.51X	-0.39	
	CAD	(52,451)	(6,381)	(45,917)	(35,893)	(18,627)	50,344	(61,016)	-1.46X	-1.98	
	MXN	57,749	3,593	20,619	10,143	(910)	68,505	(64,080)	1.37X	2.00	
•	NZD	(1,866)	1,342	288	465	(4,225)	17,126	(19,771)	0.29X	-0.28	
	CHF	(2,894)	498	(5,908)	(7,754)	(8,601)	17,848	(20,171)	1.26X	-0.09	
	CRUDE OIL	258,688	(19,538)	249,211	260,504	288,629	594,465	183,345	-0.68X	-1.48	
	GOLD	147,816	14,642	97,930	78,938	49,356	184,127	(41,300)	1.97X	1.09	
	COPPER	(22,765)	(3,932)	(8,037)	(699)	(10,466)	80,564	(30,614)	-0.91X	-1.42	
	Natural Gas	(143,239)	(5,920)	(154,133)	(159,798)	(146,488)	71,340	(182,100)	0.15X	-0. 72	
	RBOB Gasoline	47,812	(1,118)	53,445	54,207	47,444	87,991	27,945	0.04X	-0.36	
	ULSD Heating Oil	3,729	(3,708)	11,036	16,392	14,644	40,330	(14,002)	-1.29X	-0.89	
COMMODITIES	Silver	34,087	2,198	14,337	20,013	11,953	58,462	(12,811)	1.68X	0.26	
Ξ	Platinum	27,779	(2,438)	13,350	18,670	9,855	36,198	(8,246)	1.55X	1.24	
Ö	Corn	(92,461)	(96,400)	90,636	156,169	222,484	557,581	(257,102)	-2.71X	-1.94	
\mathbf{M}	Soybeans	69,687	(30,813)	147,285	135,138	119,936	270,935	25,136	-1.26X	-1.07	
Z	Wheat	(102,365)	(9,814)	(69,267)	(53,703)	(25,983)	59,368	(102,365)	-2.27X	-3.22	
$^{\circ}$	Live Cattle	135,339	2,423	118,292	100,708	81,035	135,339	32,625	1.88X	2.40	
_	Lean Hogs	(12,428)	11,724	(13,608)	8,228	23,486	101,947	(28,885)	-1.28X	-2.00	
	Sugar	225,303	(19,861)	229,323	215,461	152,239	316,046	(9,197)	0.86X	0.41	
	Cotton	(7,509)	(980)	(3,217)	5,278	26,313	127,919	(13,367)	-1.28X	-1.88	
	Coffee	32,407	(2,859)	16,416	(516)	16,375	72,005	(37,467)	0.67X	-0.05	
	Cocoa	53,536	(4,427)	42,142	25,530	6,411	57,963	(32,129)	1.84X	1.72	
	Orange Juice	4,352	(38)	4,781	5,056	4,724	6,673	(2,109)	-0.43X	0.75	

A B Testing Process: Measure & Map The Volatility of Volatility



Deliberately studying the VOLATILITY OF VOLATILITY leads to high-probability decision-making opportunities. TIMING matters.

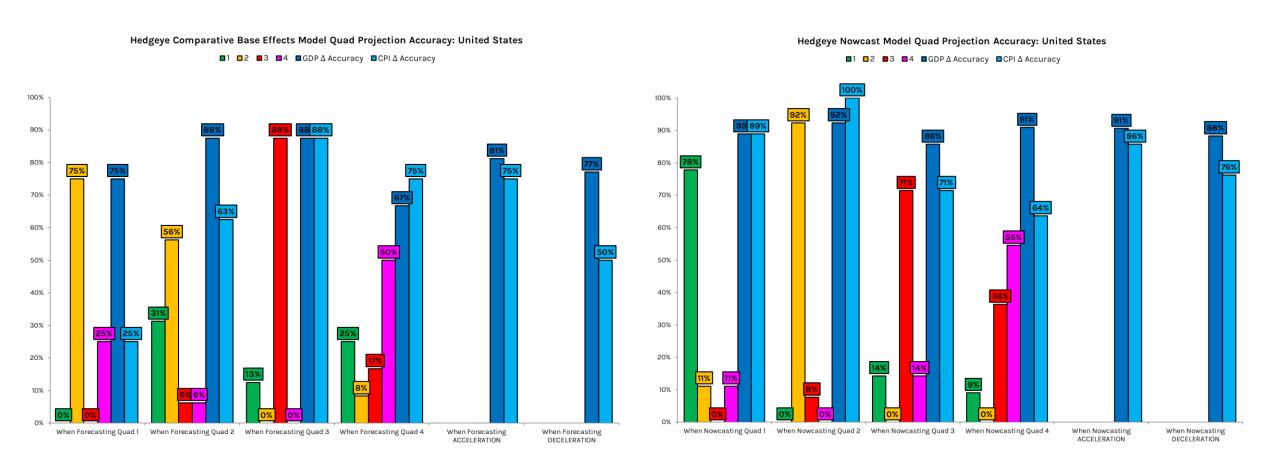
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TIME WINDOW SETTING:		IVOL PREMIUM		REALIZED VOLATILITY TRENDS IMPLIED VOLATILITY TRENDS								
VOLATILITY_30D		PERFORMANCE	IVOL PREM %							PERCENTILE		PERCENTILE
PUT_IMP_VOL_30D	TICKER	YTD %	IVOL / RVOL	Yesterday	1W Ago	1M Ago	TTM Z-Score	3Yr Z-Score	MM %	10YR	MM %	10YR
US EQUITIES			CURRENT									
SPDR S&P 500 ETF Trust	SPY	7.90%	45%	72%	30%	21%	2.0	0.2	-19%	56%	-3%	63%
Power Shares QQQ Trust ETF	QQQ	21.26%	34%	53%	34%	35%	1.7	0.2	-9%	55%	-9%	63%
I-Shares Russell 2000 ETF	IWM	0.05%	35%	56%	8%	6%	1.7	0.6	-23%	54%	-2%	68%
Materials Sector SPDR ETF	XLB	2.55%	83%	40%	32%	-12%	2.8	1.9	-31%	46%	44%	88%
Communication Services SPDR ETF	XLC	21.55%	-18%	-5%	-22%	20%	-0.7	-1.0	15%	58%	-21%	35%
Energy Sector SPDR ETF	XLE	-8.28%	7 %	21%	9%	-6%	-0.1	-0.1	-13%	64%	-1%	64%
Financials Sector SPDR ETF	XLF	-5.47%	44%	78%	11%	-8%	1.4	1.0	-39%	52%	-5%	75 %
Industrials Sector SPDR ETF	XLI	1.32%	-16%	62%	-37 %	25%	-1.4	-1.3	-13%	61%	-41%	36%
Technology Sector SPDR ETF	XLK	21.54%	-3%	37%	1%	19%	0.0	-0.4	-4%	59%	-22%	55%
Consumer Staples Sector SPDR ETF	XLP	3.53%	25%	97%	-8%	20%	0.0	-0.3	-28%	14%	-26%	16%
Real Estate Sector SPDR ETF	XLRE	1.38%	21%	25%	-11%	-12%	1.3	0.8	-28%	65%	0%	78%
Utilities Sector SPDR ETF	XLU	-2.09%	39%	62%	-10%	-2%	1.1	0.6	-36%	47%	-9%	81%
Health Care Sector SPDR ETF	XLV	-1.66%	4%	38%	1%	-4%	-0.2	-0.6	-16%	33%	-10%	25%
Consumer Discretionary Sector SPDR ETF	XLY	13.96%	-20%	23%	-10%	15%	-1.2	-1.1	-8%	70%	-36%	55%
INTERNATIONAL EQUITIES												
I-Shares MSCI Emerging Markets ETF	EEM	3.93%	11%	33%	13%	9%	0.0	-0.1	-17%	15%	-15%	12%
Euro Stoxx 50 Index	SX5E Index	14.41%	21%	43%	13%	-31%	0.6	0.6	-46%	23%	-5%	34%
I-Shares China Large-Cap ETF	FXI	1.31%	3%	2%	0%	7%	-0.1	0.0	-4%	67%	-8%	69%
I-Shares MSCI Japan ETF	EWJ	9.35%	13%	33%	11%	2%	0.5	0.3	-24%	26%	-15%	28%
CURRENCIES												
PowerShares US Dollar Index ETF	UUP	-0.54%	69%	53%	59%	25%	0.8	0.7	-26%	46%	0%	71%
Currency Shares Euro Trust ETF	FXE	2.95%	38%	48%	74%	-1%	1.8	1.5	-24%	52%	6%	86%
Currency Shares British Pound ETF	FXB	4.53%	6%	7 %	6%	-13%	0.5	0.1	-28%	41%	-12%	48%
Currency Shares Japanese Yen ETF	FXY	-2.80%	-5%	2%	-6%	10%	-0.3	-0.6	-1%	79%	-15%	72%
COMMODITIES												
SPDR Gold Shares ETF	GLD	10.50%	14%	29%	-11%	-7%	0.2	-0.1	-21%	62%	-3%	64%
United States Oil Fund ETF	USO	-10.10%	-6%	15%	5%	0%	-1.8	-0.9	7%	75%	1%	33%
United States Natural Gas Fund ETF	UNG	-56.24%	8%	9%	6%	13%	-0.2	-0.1	-23%	74%	-26%	64%
Teucrium Corn ETF	CORN	-11.70%	25%	26%	27%	20%	-0.4	-0.3	16%	39%	20%	39%
iPath Coffee Subindex ETN	JO	15.23%	0%	-9%	-3%	21%	-0.7	-0.9	3%	44%	-15%	28%
iPath Cocoa Subindex ETN	NIB	18.70%	49%	85%	-17%	10%	-0.3	0.5	-11%	29%	20%	79%
FIXED INCOME		1011 011	7011				0.0					
I-Shares 20+ Year Treasury Bond ETF	TLT	5.35%	-6%	1%	4%	-9%	-0.8	-1.0	-4%	89%	-1%	84%
I-Shares 7-10 Year Treasury Bond ETF	IEF	4.08%	3%	11%	1%	-20%	0.0	-0.7	-20%	91%	3%	90%
I-Shares IBOXX IG Corporate Bond ETF	LQD	2.95%	10%	22%	32%	31%	-0.5	-0.8	10%	87%	-7 %	71%
I-Shares J.P. Morgan USD EM Bond ETF	EMB	0.95%	-		41%	50%	#VALUE!	#VALUE!	-16%	71%	#VALUE!	#VALUE!
I-Shares IBOXX HY Corporate Bond ETF	HYG	1.53%	45%	25%	3%	1%	2.9	0.8	-20%	72%	15%	85%
MEGA-CAP	1110	1.0070	4070	2070		170		0.0	2070	, _ , 0	1070	0073
Apple	AAPL	25.59%	15%	76%	52%	45%	0.3	0.0	9%	45%	-14%	41%
Amazon	AMZN	25.78%	-3%	6%	-3%	54%	-0.1	-0.4	26%	66%	-21%	65%
Alphabet	GOOGL	19.65%	14%	23%	5%	2 7 %	0.8	0.1	-11%	62%	-20%	70%
Facebook	META	93.44%	-15%	-11%	-20%	33%	-0.3	-0.6	17%	78%	-26%	61%
Microsoft	MSFT	20.96%	-9%	-3%	-16%	25%	-0.4	-0.9	21%	69%	-12%	62%
Tesla	TSLA	38.06%	- 5 % - 4 %	8%	-11%	16%	-0.4	-0.5	-4%	54%	-21%	38%
Data Source: CBOE, CME	ISLA	00.00%	-1 /0	370	-1170	1370	U. -1	0.0	-+ /0	U-+70	E 170	30%

Measuring And Mapping The Quads With Precision Ex Ante Matters To Driving Ex Post Returns



US Comparative Base Effects Model Backtest

US Nowcast Model Backtest



Data Source: Hedgeye Estimates © Hedgeye Risk Management LLC.



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