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1 FX

The best thing to do during a #QuadShift is stay with the Asset Allocations that work in both Quads! We're staying with the Core Short US Dollar position into the Fed meeting. What the ECB did was significant – they didn't pander to calls for cowbell and, like Hedgeye, have INFLATION going back UP in Q4 and into next year. We're long Euros (FXE) and Pounds (FXB) expecting NO CUT from the BOE later this week. On a relative basis, this makes the US look panicked as #Quad4 (slowing) Data hits...



Our Fed Front-Runner (UST 2yr Yield SIGNAL) is diving into the depths of the SEP MONTHLY #Quad4, making lower-Cycle-lows at 3.55% this morning. This keeps getting us paid in Steepener (IVOL) and Gold terms obviously with Gold (AAAU + GLD) ramping to all-time highs. If it was a full-send #QuadShift into #Quad3, Copper wouldn't be down -0.4% in kind this morning and Oil wouldn't be failing @Hedgeye TRADE and TREND Signal Levels of resistance

3) VIX

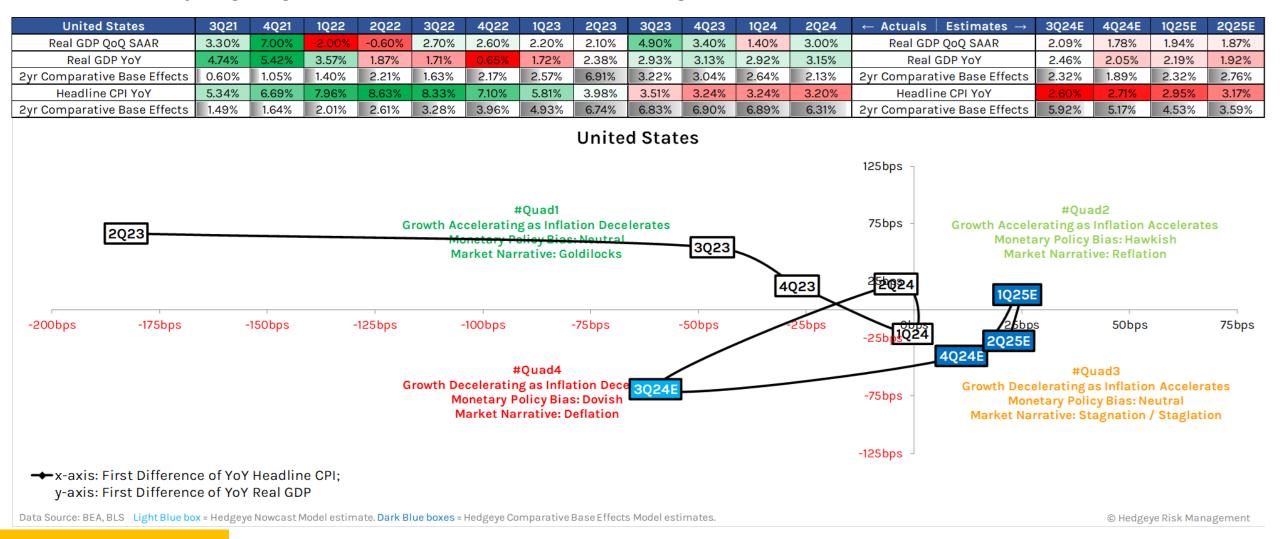
Very complacent (Bulls) and capitulatory (Bears) covering Friday) setup into both the Fed Meeting and Quarterly OPEX (Friday) with super-shortdated Calendar Vol back down at 13 this morning and only hooking back up towards 17 for FOMC day. Usually renewed short-term put buying gets that back into the 20s (day before event), so we'll see how the next 2 days go but front-month VIX did close above TREND support on Friday, despite 1mth SPX realized Vol trading below 3mth



OUR PROCESS

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.



Updated: 9/13/2024

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, Communication Services, Industrials, Materials, REITS

Worst Equity Sectors:

Utilities, Consumer Staples, Health Care

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, Industrials, Financials, Energy

Worst Equity Sectors:

Utilities, Communication Services, Consumer Staples, REITs, 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, Energy, REITs, Tech, Consumer Staples, Health Care

Worst Equity Sectors:

Communication Services, Financials, Consumer Discretionary, Industrials, Materials

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, Health Care Utilities

Worst Equity Sectors:

Energy, Tech, Financials, Industrials, Consumer Discretionary

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 ().

Position Sizing

HEDGEYE

Dynamic Asset Allocation	Max Per Position Size	Long-Short Equity Allocation	Long	Short
Foreign	12%	Maximum	6%	3%
Currency			4%	2%
Fixed Income	10%	.		10/
Equities	6%	Minimum	2%	1%
Commodities	4%			
Options	1-2%			

- Build incrementally to max position (max/min based on volatility)
- Establish minimum position size for each asset class
- Multiple positions within an asset class (ex. Bullish on four different Fixed Income assets, meaning at max could be 40% of capital)

- Same basic principles as "Dynamic Asset Allocation" with...
- Long positions should always be larger than shorts
- Dynamics of Macro vs. Earnings Season (outside of Earnings season the sector & factor exposures determined by the Macro environment matter more than your long-term fundamental call on a company)



CHART CALLOUTS



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Global Infrastructure ETF



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						LONGS				
Ticker	Date Added	Price	Added*	Las	t Price	Absolute Performance	ce	S&P 500	Relative Performance**	Days Active
XYL	1/16/2024	S	110.96	S	130.83	17.9	9%	18.34%	-0.4%	174
NEM	5/23/2024	S	41.23	S	53.71	30.3	3%	6.9%	23.4%	82
DGX	5/28/2024	S	138.91	\$	154.38	11.1	1%	6.1%	5.1%	79
PM	6/14/2024	s	102.20	S	125.62	22.9	9%	3.5%	19.4%	66
ULS	6/27/2024	s	41.04	S	48.84	19.0	0%	2.9%	16.1%	57
						SHORTS				
MPW	5/16/2022	\$	18.28	\$	6.37	65.2	2%	-40.4%	105.5%	610
EWCZ	1/9/2024	\$	15.34	\$	7.07	53.9	9%	-18.6%	72.5%	179
ULTA	6/14/2024	\$	390.82	\$	378.34	3.3	2%	-3.5%	6.7%	66

India

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Gold



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2-Year U.S Treasury Yield

\$UST2Y 2-Year US Treasury Yield (EOD) INDX @StockCharts.com Open 3.65 High 3.65 Low 3.57 Close 3.60 Chg -0.06 (-1.51%) -13-Sep-2024 - \$UST2Y (Daily) 3.60 5.03 5.1 4.99 5.0 4.90 N 4.9 4.8 4.74 4.7 4.74 4.73 4.6 4.57 4.5 4.4 4.3 4.2 4.06 4.1 4.0 3.9 3.94 3.89 3.8 3.7 50 18 25 Apr 8 May6 20 28 Jun 10 17 24 Jul 8 15 22 Aug 12 19 26 Sep 9 15 22 13



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Sector Performance

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			1-Day %	MTD %	QTD %	YTD %
SECTOR	Ticker	Price	Chg	Chg	Chg	Chg
Consumer Discretionary	XLY	\$192.48	0.68%	2.86%	5.53%	7.64%
Financial Select Sector	XLF	\$44.51	0.29%	-2.69%	8.27%	18.38%
Health Care Select Sector	XLV	\$156.16	0.21%	-0.66%	7.14%	14.50%
Technology Select Sector	XLK	\$220.44	0.50%	0.05%	-2.56%	14.53%
Consumer Staples Select Sector	XLP	\$83.93	0.71%	1.72%	9.60%	16.52%
Industrial Select Sector	XLI	\$130.57	1.01%	-0.68%	7.14%	14.55%
Materials Select Sector	XLB	\$92.69	0.90%	-1.69%	4.96%	8.36%
The Energy Select Sector	XLE	\$85.59	0.56%	-6.23%	-6.10%	2.09%
Utilities Select Sector	XLU	\$78.54	1.41%	2.95%	15.26%	24.02%
Real Estate Select Sector	XLRE	\$45.21	0.71%	3.81%	17.70%	12.86%
Communications Services Sector	XLC	\$86.87	0.96%	-0.52%	1.41%	19.56%
S&P 500	SPX	5,626.02	0.54%	-0.40%	3.03%	17.95%



Sector Relative Performance

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1-Day % MTD	<u>QTD%</u> <u>YTD%</u>
<u>Ticker</u> <u>Price</u> <u>Chg</u> <u>Ch</u>	g <u>Chg</u> <u>Chg</u>
Consumer Discretionary XLY \$192.48 0.14% 3.26	i% 2.49% -10.31%
Financial Select Sector XLF \$44.51 -0.25% -2.29	9% 5.24% 0.43%
Health Care Select Sector XLV \$156.16 -0.34% -0.2	7% 4.11% -3.45%
Technology Select Sector XLK \$220.44 -0.04% 0.45	- 5.59% -3.42%
Consumer Staples Select Sector XLP \$83.93 0.17% 2.12	.% 6.57% -1.43%
Industrial Select Sector XLI \$130.57 0.47% -0.28	3% 4.11% -3.40%
Materials Select Sector XLB \$92.69 0.36% -1.2	9% 1.93% -9.59%
The Energy Select Sector XLE \$85.59 0.02% -5.84	4% -9.13% -15.86%
Utilities Select Sector XLU \$78.54 0.87% 3.35	5% 12.23% 6.07%
Real Estate Select Sector XLRE \$45.21 0.17% 4.21	.% 14.67% -5.09%
Communications Services Sector XLC \$86.87 0.42% -0.1	2% -1.62% 1.61%

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Market Share Volume & Total Value Traded

INDEX/SECURITY	VOLUME:	9/13 vs		
	Prior Day	1M Ave	<u>3M ave</u>	<u>1Y Ave</u>
Total Market Volume*	-4%	- 1%	-6%	-13%
Total Exchange Volume**	-5%	-5%	-11%	-11%

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

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

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



Style Factor Performance

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		1D	1W	1M	3M	6M	YTD
	FACTOR	% Chg					
Debt	High Debt/EV	1.3%	2.4%	2.3%	7.2%	14.2%	14.6%
ă	Low Debt/EV	0.7%	3.7%	1.5%	4.9%	4.0%	11.6%
SI	High Short Interest	1.6%	3.7%	-0.7%	0.3%	1.4%	4.6%
	Low Short Interest	0.5%	2.4%	2.9%	8.5%	10.5%	17.7%
BETA	High Beta 🥌		5.1%	-1.5%	3.2%	3.0%	9.2%
	Low Beta	0.8%	1.2%	5.4%	9.1%	11.6%	14.7%
VIELD	High Yield	1.0%	1.6%	2.3%	6.4%	10.0%	7.8%
	Low Yield	1.1%	4.0%	0.1%	4.3%	2.6%	9.8%
MKT CAP	MCAP Bottom 25%	1.5%	2.5%	-0.7%	3.0%	1.6%	1.4%
Σũ	MCAP Top 25%	0.7%	3.3%	3.2%	8.3%	10.8%	18.3%
Sales	Top 25% Sales Growth	0.070	4.3%	1.3%	5.2%	8.7%	17.5%
Sa	Bottom 25% Sales Growth	1.2%	1.9%	1.0%	4.2%	7.2%	7.5%
EPS	Top 25% EPS Growth	1.2%	3.9%	-0.2%	2.8%	6.3%	12.1%
	Bottom 25% EPS Growth	1.1%	1.9%	3.0%	6.8%	9.3%	9.7%

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

Key \$USD Correlations



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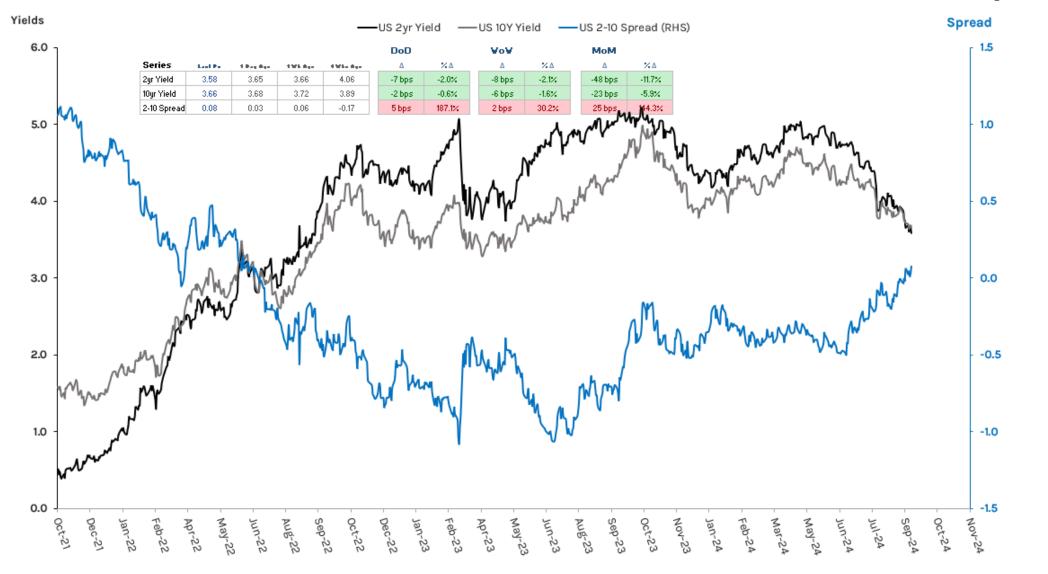
Key SUSD Correlation	15*	*Days = Trading Days			52-Wk Rolling 30D Correlation					
METRIC	15D	30D	90D	120D	180D	High	Low	% Time Pos	% Time Neg	
SPX	-0.36	-0.77	-0.41	-0.57	-0.03	0.83	-0.93	33%	67%	
BRENT Oil	-0.56	0.43	0.80	0.77	0.74	0.80	-0.55	78%	22%	
CRB Index	-0.58	-0.14	0.78	0.77	0.71	0.82	-0.70	74%	26%	
GOLD	-0.25	-0.82	-0.91	-0.78	-0.03	0.81	-0.91	14%	86%	
Bitcoin	-0.51	-0.17	0.48	0.42	0.36	0.68	-0.88	22%	78%	



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U.S. Treasury Yield Curve



24

CFTC **Non-Commercial** Net Long Positioning (Updated weekly)

CFICNO	N-COMMERCIAL NI	SITIONING			Γ	3	Y	Z-Score		
	METRIC	Latest	W/W Chg	3M Ave	6M Ave	1Y Ave	Max	Min	1Y	3Y
	SPX (Index + E-mini)	(61,408)	2,768	(55,090)	(58,335)	(97,305)	248,601	(447,046)	0.48X	0.22X
EQUITE	VIX	(15,111)	10,778	(42,710)	(40,741)	(40,772)	(13,979)	(106,345)	1.93X	2.05X
	Russell 2000 (mini)	5,425	6,838	(34,677)	(33,119)	(33,715)	21,422	(120,386)	1.69X	2.01X
	Dow Jones (mini)	8,180	1,039	7,295	10,257	2,936	24,410	(37,076)	0.27X	1.06X
	Nasdaq (mini)	31,323	1,654	12,593	8,208	13,222	41,791	(24,622)	1.40X	1.48X
	Nikkei Index	(1,966)	473	(3,429)	(2,643)	(2,641)	2,324	(9,401)	0.48X	0.30X
	10Y UST	(948,794)	31,296	(658,275)	(567,184)	(625,610)	203,590	(980,090)	-2.12X	
RATES	2Y UST	(1,011,718)	(26,459)	(1,142,811)	(1,064,946)	(1,167,504)	86,786	(1,476,201)	0.95X	-0.73X
AT	5Y UST	(1,693,749)	19,929	(1,618,800)	(1,457,394)	(1,371,561)	(82,363)	(1,740,785)	-1.76X	-1.80X
2	UST Bonds	(56,599)	(25,884)	(34,477)	(24,646)	(76,028)	49,853	(229,064)	0.30X	0.37X
	30D Fed Funds	(56,421)	34,313	(127,724)	(67,366)	(114,686)	147,168	(295,670)	0.62X	0.16X
	\$USD	20,206	763	17,869	9,605	10,121	44,971	(1,915)	1.19X	-0.02X
	JPY	55,375	16,609	(68,791)	(107,693)	(102,991)	55,375	(189,560)	2.75X ┥	7X
E	EUR	93,465	(23,197)	47,022	36,333	67,030	198,934	(47,358)	0.59X	0.29X
l Z	GBP	95,283	(21,069)	89,286	51,650	32,366	147,196	(79,646)	1.41X	2.11X
CURRENCIES	AUD	(14,020)	(7,351)	(21,034)	(51,103)	(60,175)	10,369	(107,625)	1.57X	1.76X
	CAD	(70,937)	(1,656)	(136,948)	(106,762)	(71,297)	24,340	(197,113)	0.01X	-0.88X
1 2	MXN	27,064	(5,472)	51,592	87,706	80,147	139,721	(64,080)	-1.66X	-0.13X
	NZD	(3,315)	(3,077)	3,945	(456)	(3,354)	30,743	(21,272)	0.00X	-0.04X
	CHF	(22,235)	740	(34,019)	(35,775)	(24,098)	1,383	(50,931)	0.13X	-0.70X
	CRUDE OIL	174,881	(29,903)	256,068	260,505	257,398	506,352	170,119	-1.55X	-1.55X
	GOLD	226,709	119	206,470	190,015	139,945	236,818	(41,300)	1.41X	2.09X
	COPPER	14,095	(172)	30,381	40,246	14,072	68,048	(35,712)	0.00X	0.42X
	Natural Gas	(87,925)	12,798	(90,962)	(104,011)	(100,914)	(49,985)	(182,100)	0.51X	1.29X
	RBOB Gasoline	15,551	(4,227)	27,513	45,072	51,718	83,766	11,588	-1.84X	-2.54X
S	ULSD Heating Oil	(7,047)	(16,474)	11,628	11,344	19,982	43,514	(14,002)	-2.42X	-1.95X
COMMODITIES	Silver	40,105	(758)	46,189	49,011	35,105	56,260	(12,811)	0.32X	0.88X
	Platinum	8,927	9,506	14,672	16,266	12,479	31,152	(8,246)	-0.39X	-0.29X
l ö	Corn	(45,411)	49,974	(186,659)	(164,756)	(168,218)	491,135	(277,559)	1.84X	-0.62X
Ξ	Soybeans	(132,244)	16,624	(159,446)	(134,581)	(85,614)	214,132	(194,765)	-0.53X	-1.56X
	Wheat	(20,040)	14,617	(43,981)	(41,831)	(50,719)	33,169	(107,489)	1.52X	0.35X
U Č	Live Cattle	60,991	2,317	74,150	74,412	72,102	144,819	30,899	-0.50X	-0.76X
	Lean Hogs	43,324	(964)	17,503	46,534	35,134	110,102	(29,164)	0.24X	0.25X
	Sugar	46,483	(11,622)	29,878	28,855	76,216	259,115	(25,165)	-0.40X	-1.08X
	Cotton	(41,243)	(6,824)	(28,731)	3,272	22,757	127,919	(41,243)	-1.47X	-1.91X
	Coffee	62,495	(764)	65,297	65,259	48,460	76,932	(37,467)	0.56X	0.98X
	Cocoa	23,994	(438)	21,913	21,316	41,369	86,695	(32,129)	-0.77X	-0.14X
	Orange Juice	4,141	354	3,490	3,200	2,720	6,673	(904)	1.20X	0.41X

CFTC NON-COMMERCIAL NET LONG POSITIONING

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VOLATILITY



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Implied & Realized Volatility

TIME WINDOW SETTING:			IVOL PREMIUM	DISCOUNT					REALIZED VOL		IMPLIED VOLAT	
VOLATILITY_30D		PERFORMANCE								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	18.24%	-5%	-3%	4%	-17%	-1.6	-1.1	-5%	75%	9%	51%
Power Shares QQQ Trust ETF	QQQ	16.07%	-13%	-12%	-4%	-27%	-1.6	-1.2	-9%	77%	8%	60%
I-Shares Russell 2000 ETF	IWM	8.03%	-8%	-11%	-3%	-28%	-0.8	-1.1	-11%	86%	15%	67%
Materials Sector SPDR ETF	XLB	8.36%	-10%	-19%	-1%	-21%	-1.0	-1.1	-8%	48%	6%	27%
Communication Services SPDR ETF	XLC	19.56%	-8%	-22%	33%	-12%	-0.7	-0.5	-8%	41%	-4%	20%
Energy Sector SPDR ETF	XLE	2.09%	8%	9%	0%	-5%	-0.8	-0.5	5%	41%	19%	38%
Financials Sector SPDR ETF	XLF	18.38%	11%	15%	23%	11%	-1.4	-0.8	-6%	55%	-6%	46%
Industrials Sector SPDR ETF	XLI	14.55%	-24%	1%	16%	-36%	-1.8	-1.7	-22%	54%	-7%	12%
Technology Sector SPDR ETF	XLK	14.53%	-26%	-26%	-20%	-36%	-1.5	-1.3	-14%	88%	-1%	70%
Consumer Staples Sector SPDR ETF	XLP	16.52%	-8%	14%	173%	97%	-0.9	-0.9	-7%	37%	-57%	10%
Real Estate Sector SPDR ETF	XLRE	12.86%	8%	11%	23%	-19%	0.3	0.2	-13%	45%	15%	45%
Utilities Sector SPDR ETF	XLU	24.02%	8%	15%	41%	-11%	-0.2	-0.3	-24%	19%	-8%	21%
Health Care Sector SPDR ETF	XLV	14.50%	-20%	-25%	10%	-19%	-1.5	-1.5	-15%	51%	-16%	10%
Consumer Discretionary Sector SPDR ETF	XLY	7.64%	-18%	-30%	-11%	-49%	-1.1	-1.1	-18%	77%	31%	62%
Retail SPDR ETF	XRT	4.42%	42%	52%	-9%	14%	0.3	0.5	-10%	73%	12%	83%
INTERNATIONAL EQUITIES												
I-Shares MSCI Emerging Markets ETF	EEM	6.52%	-29%	-26%	-9%	-36%	-1.3	-1.2	-7%	54%	3%	3%
Euro Stoxx 50 Index	SX5E Index	7.13%	3%	5%	3%	-33%	-0.4	-0.2	-30%	32%	8%	31%
I-Shares China Large-Cap ETF	FXI	7.62%	17%	16%	16%	6%	0.5	0.7	-8%	27%	2%	31%
I-Shares MSCI Japan ETF	EWJ	8.93%	-4%	-18%	-23%	-41%	-0.4	-0.5	-23%	88%	25%	90%
CURRENCIES												
PowerShares US Dollar Index ETF	UUP	4.02%	-32%	7%	5%	26%	-0.7	-1.0	16%	54%	-37%	1%
Currency Shares Euro Trust ETF	FXE	0.24%	-	15%	17%	78%	#VALUE!	#VALUE!	20%	36%	#VALUE!	#VALUE!
Currency Shares British Pound ETF	FXB	2.77%	-11%	-15%	-13%	31%	-0.5	-0.5	-4%	19%	-35%	3%
Currency Shares Japanese Yen ETF	FXY	-0.32%	-12%	-19%	-17%	-30%	-0.6	-0.7	-18%	87%	4%	77%
COMMODITIES												
SPDR Gold Shares ETF	GLD	24.85%	13%	11%	9%	2%	0.5	0.1	-18%	59%	-9%	63%
United States Oil Fund ETF	USO	4.79%	1%	4%	4%	4%	-1.1	-0.8	24%	59%	19%	33%
United States Natural Gas Fund ETF	UNG	-28.55%	31%	14%	31%	26%	1.2	1.2	-1%	52%	3%	57%
Teucrium Corn ETF	CORN	-15.81%	5%	-8%	9%	2%	-1.1	-1.0	-12%	30%	-10%	9%
TEUCRIUM SOYBEAN FUND	SOYB	-18.11%	19%	-7%	21%	-10%	-0.3	-0.1	-9%	74%	20%	65%
VANECK STEEL ETF	SLX	-11.88%	49%	14%	46%	47%	-0.2	0.6	0%	32%	1%	63%
FIXED INCOME												
I-Shares 20+ Year Treasury Bond ETF	TLT	1.55%	-4%	-5%	1%	-12%	-0.3	-0.6	-3%	62%	5%	45%
I-Shares 7-10 Year Treasury Bond ETF	IEF	2.58%	12%	8%	8%	2%	0.3	0.3	-2%	70%	7%	60%
I-Shares IBOXX IG Corporate Bond ETF	LQD	2.30%	176%	75%	83%	102%	4.3	5.9	-11%	57%	21%	97%
I-Shares J.P. Morgan USD EM Bond ETF	EMB	4.48%	-	34%	70%	-	#VALUE!	#VALUE!	4%	58%	#VALUE!	#VALUE!
I-Shares IBOXX HY Corporate Bond ETF	HYG	2.89%	22%	34%	0%	-23%	0.2	0.4	-2%	35%	57%	38%
MEGA-CAP												
Apple	AAPL	15.57%	19%	18%	31%	-5%	0.1	0.1	-17%	38%	4%	41%
Amazon	AMZN	22.74%	-26%	-26%	-17%	-24%	-1.4	-1.2	8%	82%	5%	51%
Alphabet	GOOGL	12.72%	-1%	4%	14%	-8%	-0.3	-0.3	-1%	64%	7%	61%
Facebook	META	48.21%	21%	10%	14%	-27%	0.1	0.4	-35%	45%	7%	52%
Microsoft	MSFT	14.51%	18%	22%	38%	0%	-0.4	0.2	-10%	41%	6%	46%
Tesla	TSLA	-7.32%	-1%	-7%	-8%	-27%	0.0	-0.2	-19%	69%	11%	62%
Data Source: CBOE, CME									-			



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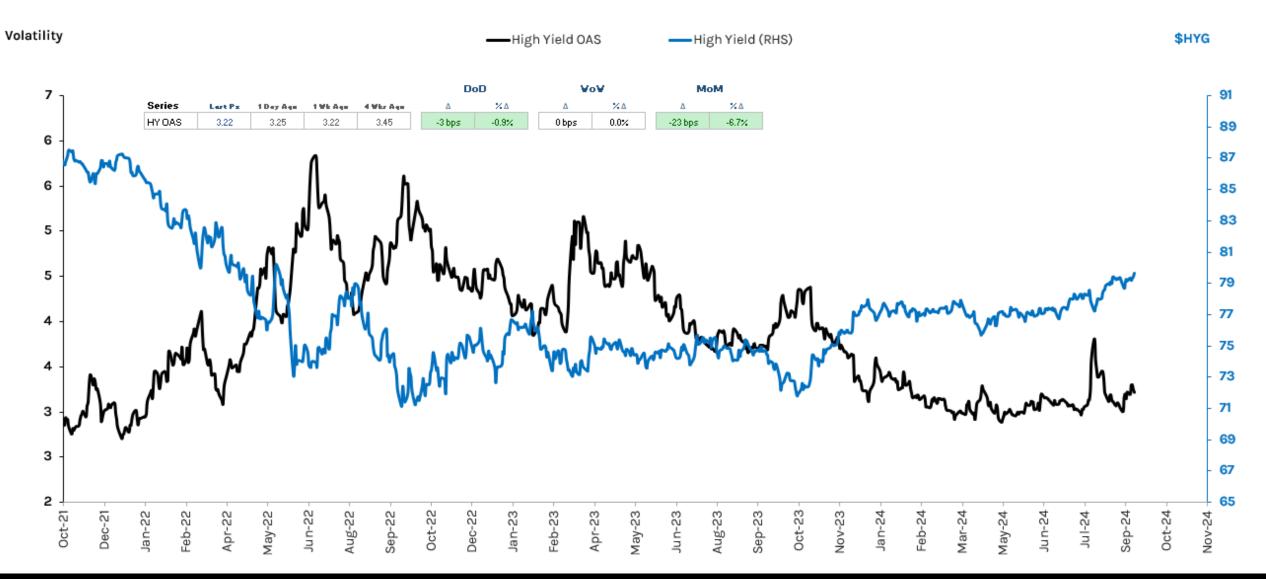
Bond Volatility (MOVE Index)

Volatility — Move Index 220 VoV DoD MoM Series ΧΔ Δ $\times \Delta$ $\times \Delta$ Last Px 1 Day Aqu 4 Witz Age Δ Δ 1 Wk Age 200 2.6% MOVE 100.60 107.24 102.81 257 bps -665 bps -6.2% -222 bps -2.2% 98.03 180 160 140 J M Mh 120 1 man May 100 μv 80 60 40 20 oct-21 Dec-21 Jan-22 Feb-22 Apr-22 May-22 Jun-22 AUB-22 Sep-22 oct-22 Dec-22 Jan-23 Feb-23 Apr-23 May-23 Jun-23 Aug-23 Sep-23 Nov-23 Feb-24 Mar-24 May-24 Jun-24 Jul-24 Sep-24 oct-24 Nov-24 0ct-23 Jan-24



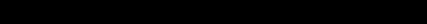
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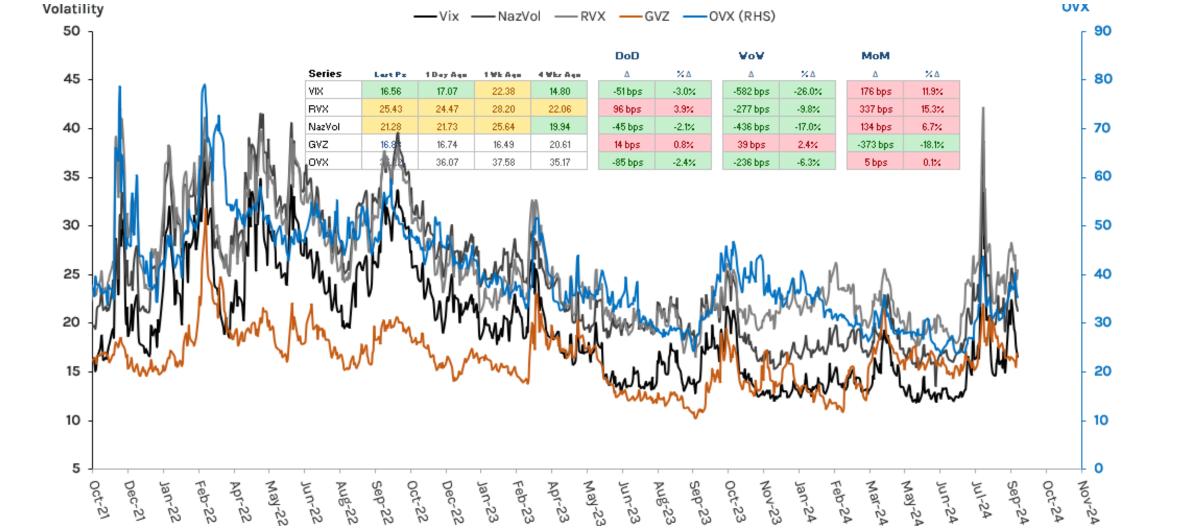
High Yield Market Volatility



DATA SOURCE: ICE BofA

Macro Volatility





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September 16, 2024



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Global Currency Volatility





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10-Year BBB Corporate Spread

