High Contract of the Structure Report

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HEDGEYE

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Summary:

- Dealers remain in negative gamma, which leaves SPX in a higher volatility regime.
- Even though markets were calm yesterday, we suspect these underlying conditions were still prevalent. However, since SPX lacked any strong momentum, dealers were able to stay delta-neutral without materially impacting the market.
- This is why we always emphasize that negative gamma creates the conditions for higher volatility, but without the accompanying hedging from market makers, there is no mechanism to drive the realized volatility.
- That said, today, we are expecting to see an increase in short-dated implied volatility in the lead-up to tomorrow's CPI release. In a world increasingly dominated by zero-days-to-expiration (0DTE) options, short-dated contracts have become the preferred tools for hedging against single-day risk events.

• This means we typically see the largest jump in IV happen at the front end of our volatility curve, which dealers then broadly hedge with other 0dte contracts without interacting with the futures market.

Tier1 Alpha Market Research Tools

- Interestingly, the recent rise in implied volatility skew across longer-term tenors suggests that market participants are hedging their exposure to the CPI event not only with 0DTE options but also with longer-dated contracts, particularly 1-month and 3-month put options.
- Contrary to hedging 0dte, when an option dealer sells a longer-term Put contract, they will neutralize their delta exposure by shorting SPX futures, which can introduce some selling pressure into the market.
- We don't know if we'll see a similar dynamic play out today, but if there is more demand in longer-term protection, then there is a reasonable chance we could see some weakness ahead of CPI, as dealers rush to hedge their side of the trade.
- On the other hand, if hedging is contained to the 0-1dte space, then we'd expect it to be business as usual.

Volatility Regime:	Low	Neutral	High
Flow Risk:	Bullish	Neutral	Bearish
PV Band Risk/Reward:	Long	Neutral	Short



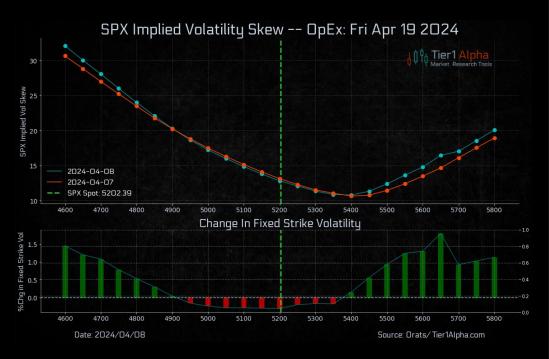
Short-dated Equity Vol Term Structure vs Economic Events

Date: 2024/04/08

Source: Orats/ Tier1Alpha.com 4

Economic Event Calendar With Short-Dated Options Positioning

Date	Event	Estimate	Previous	Impact	Call IV	Put IV	SPX IV	Expected Move	P/C Vol	P/C OI
2024-04-09	Nfib Business Optimism Index		89.4	low	14.23	7.97	11.1	+/- 0.58%	1.21	2.62
2024-04-09	Economic Optimism Index		43.5	medium	14.23	7.97	11.1	+/- 0.58%	1.21	2.62
2024-04-10	Mortgage Rate		6.91	low	19.28	14.4	16.84	+/- 1.24%	1.86	2.08
2024-04-10	Mortgage Applications		-0.6	low	19.28	14.4	16.84	+/- 1.24%	1.86	2.08
2024-04-10	MBA Mortgage Refinance Index		453.5	low	19.28	14.4	16.84	+/- 1.24%	1.86	2.08
2024-04-10	MBA Purchase Index		145.6	low	19.28	14.4	16.84	+/- 1.24%	1.86	2.08
2024-04-10	Core Inflation Rate MoM	0.3	0.4	high	19.28	14.4	16.84	+/- 1.24%	1.86	2.08
2024-04-10	Core Inflation Rate	3.7	3.8	high	19.28	14.4	16.84	+/- 1.24%	1.86	2.08
2024-04-10	Inflation Rate Mom	0.3	0.4	high	19.28	14.4	16.84	+/- 1.24%	1.86	2.08
2024-04-10	Inflation Rate	3.4	3.2	high	19.28	14.4	16.84	+/- 1.24%	1.86	2.08
2024-04-11	Continuing Jobless Claims		1791.0	low	18.86	13.62	16.24	+/- 1.47%	2.62	2.07
2024-04-11	Initial Jobless Claims	215.0	221.0	medium	18.86	13.62	16.24	+/- 1.47%	2.62	2.07



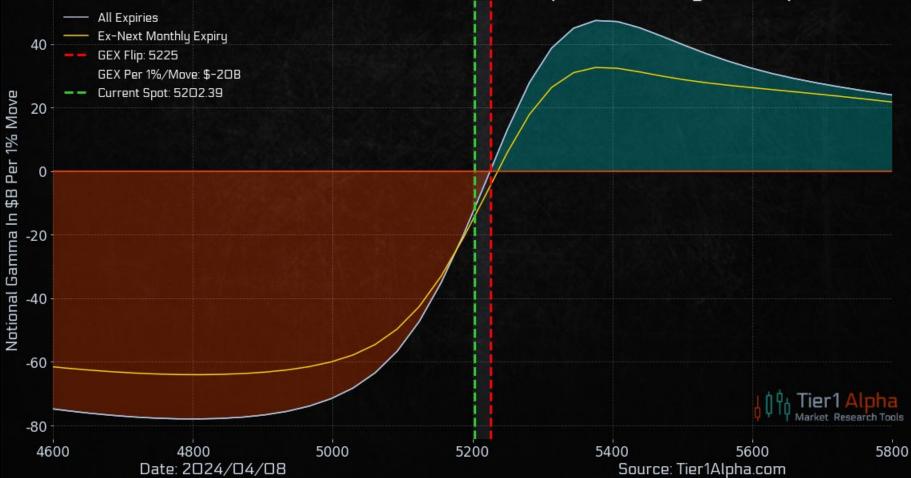
SPX Implied Volatility with Fixed Strike Vol							
Expiration		19 2024	Fri May	17 2024	Fri Jun 21 2024		
Strike	Implied Vol	FSV Change	Implied Vol	FSV Change	Implied Vol	FSV Change	
4700.0	28.06	1.08	20.07	-0.36	19.64	-0.36	
4750.0	26.0	0.78	19.2	-0.36	18.94	-0.37	
4800.0	24.01	0.53	18.34		18.28	-0.36	
4850.0	22.08	0.3	17.52	-0.38	17.61	-0.36	
4900.0	20.28	0.04	16.72	-0.39	16.96	-0.36	
4950.0	18.65	-0.16	15.93	-0.41	16.32	-0.37	
5000.0	17.24		15.19	-0.4	15.7	-0.36	
5050.0	16.0		14.46		15.1	-0.38	
5100.0	14.86	-0.29	13.78		14.53	-0.38	
5150.0	13.8		13.14	-0.48	13.98	-0.39	
5200.0	12.83		12.55	-0.48	13.46		
5250.0	12.09		12.05	-0.49	13.0		
5300.0	11.37		11.61	-0.49	12.56		
5350.0	10.87	-0.18	11.26	-0.46	12.17		
5400.0	10.81	0.15	10.98	-0.42	11.84	-0.38	
5450.0	11.34	0.56	10.8		11.53	-0.39	
5500.0	12.39	0.93	10.72	-0.34	11.3		
5550.0	13.64	1.24	10.76	-0.23	11.11	-0.37	
5600.0	14.8		11.0	-0.11	11.0	-0.36	
5650.0	16.46	1.8	11.28	0.02	10.92	-0.35	
5700.0	17.04	0.92	11.7	0.13	10.92	-0.32	



Date: 2024/04/08

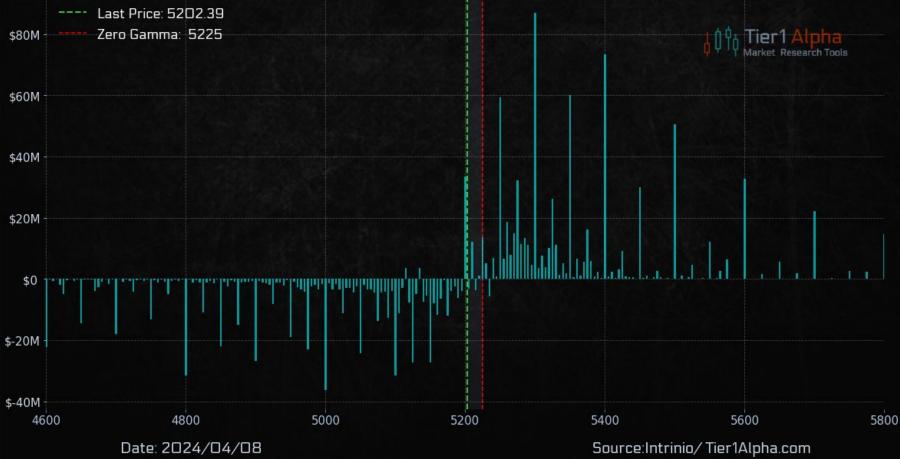
Source: Intrinio/ Tier1Alpha.com

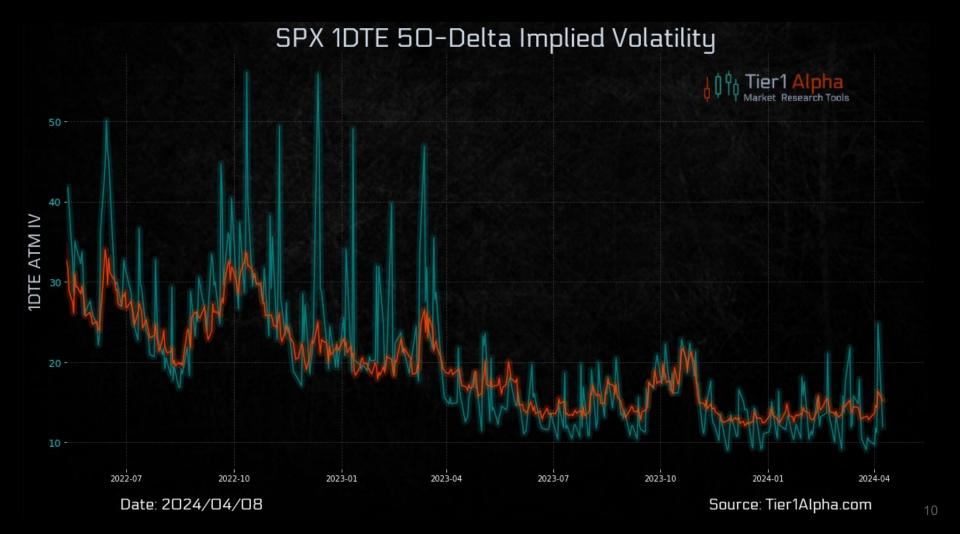
S&P 500 (SPX) Estimated Dealer Gamma Exposure - Weighted Expirations



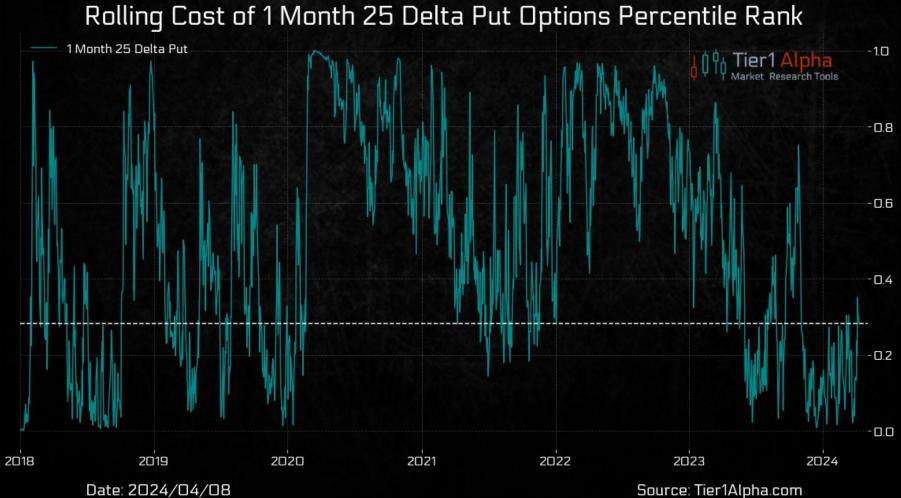
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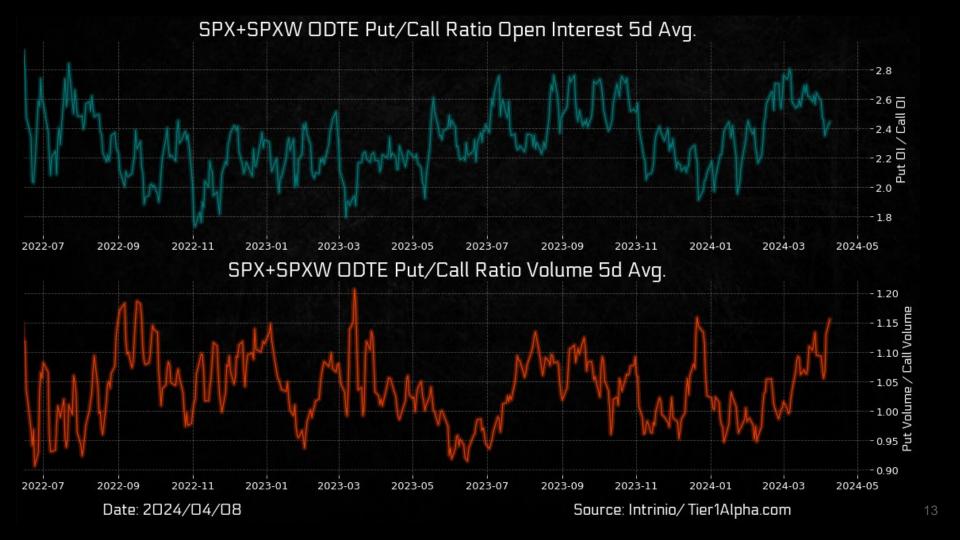
SPX Total Gamma Exposure By Strike -- Weighted Expirations









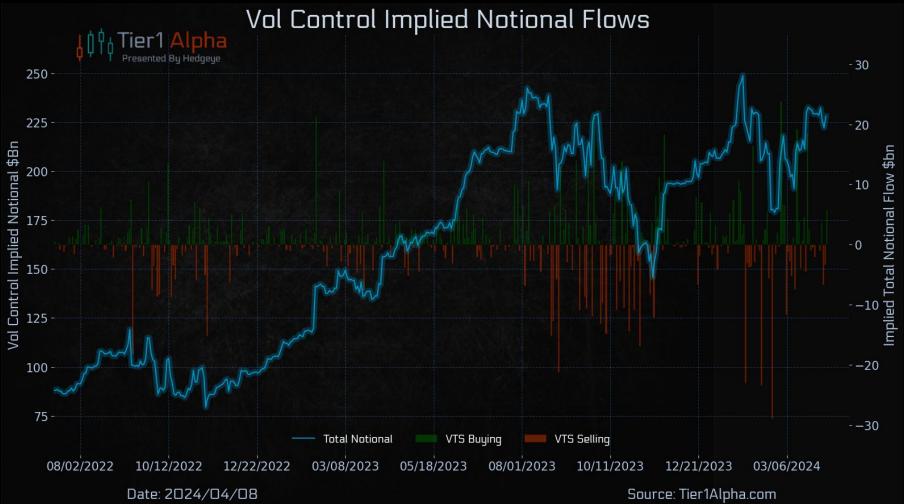




Nasdaq 100 (NDX) Probable Volatility & Put/Call Gamma By Strike, Weighted Expirations

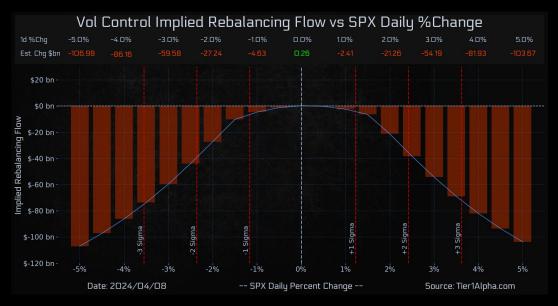




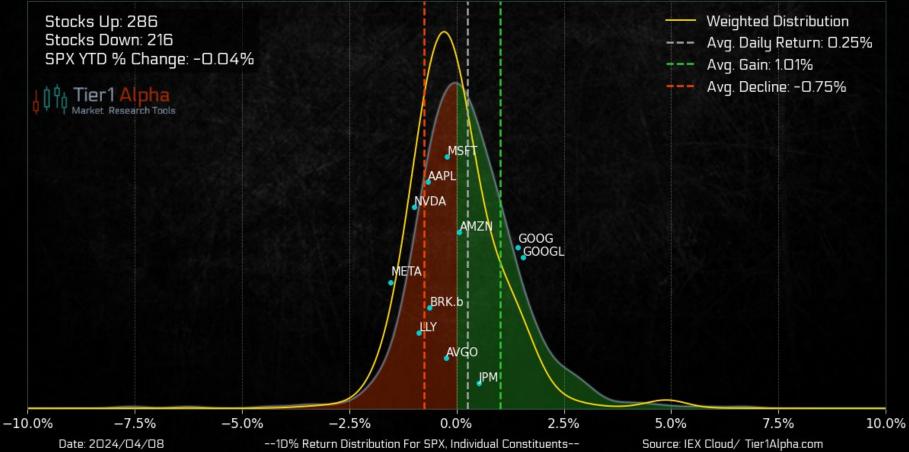


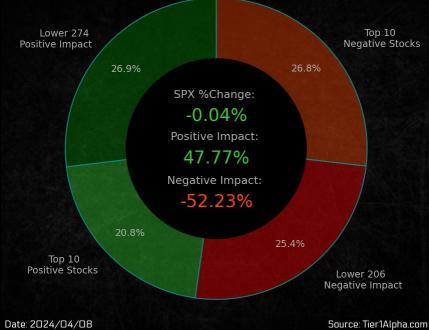


SPX Realized Vol Data In Sample for 2024-04-09							
Dropoff	1m Dates	1m Drop %	3m Dates	3m Drop %			
T+1	2024-03-11	-0.1%	2024-01-09	-0.2%			
T+2	2024-03-12	1.1%	2024-01-10	0.6%			
T+3	2024-03-13	-0.2%	2024-01-11	-0.1%			
T+4	2024-03-14	-0.3%	2024-01-12	0.1%			
T+5	2024-03-15	-0.6%	2024-01-16	-0.4%			
T+6	2024-03-18	0.6%	2024-01-17	-0.6%			
T+7	2024-03-19	0.6%	2024-01-18	0.9%			
T+8	2024-03-20	0.9%	2024-01-19	1.2%			
T+9	2024-03-21	0.3%	2024-01-22	0.2%			
T+10	2024-03-22	-0.1%	2024-01-23	0.3%			



S&P 500 MBAD Indicator for 2024/04/08

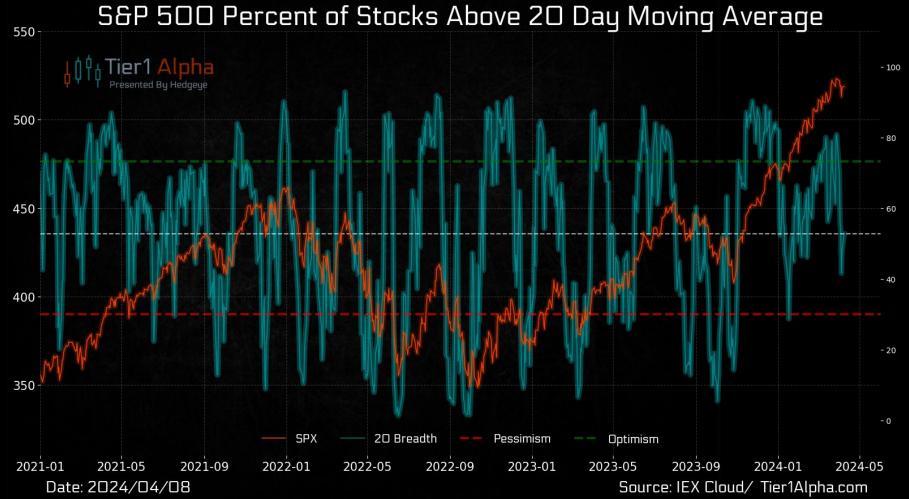




SPX Constituents Relative Impact By Market Cap

Largest Positive Impact			Largest Negative Impact				
Top Contributor	Daily %Return	Positive Impact	% Weight	Top Detractor	Daily %Return.1	Negative Impact	% Weight.1
TSLA	4.9%	7.3%	1.1%	NVDA	-1.0%	-6.8%	5.07%
GOOGL	1.5%	4.3%	2.08%	META	-1.5%	-5.1%	2.46%
GOOG	1.4%	3.4%	1.75%	AAPL	-0.7%	-5.1%	5.61%
HD	1.2%	1.3%	0.83%	MSFT	-0.2%	-2.1%	7.17%
JPM	0.5%	0.9%	1.31%	LLY	-0.9%	-1.6%	1.38%
BAC	1.1%	0.8%	0.59%	BRK.B	-0.6%	-1.5%	1.74%
INTU	1.5%	0.8%	0.41%	UBER	-2.8%	-1.3%	0.36%
QCOM	1.2%	0.7%	0.43%	MRK	-1.1%	-1.1%	0.75%
LOW	1.4%	0.6%	0.33%	INTC	-1.9%	-1.1%	0.43%
TXN	1.2%	0.6%	0.36%	NFLX	-1.2%	-1.0%	0.6%

SPX Constituents Relative Impact By Market Cap



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