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February 24, 2022

CME Group

A Deeper Dive into CME Equity Index Options

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CME Group Equity Options

February 2022



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An Option is an Option... Sort Of...

Much of the options pricing, theory and strategies that traders use in Equity Options are applicable to Futures Options

However, there are some mechanical differences that a trader should know before trading Futures Options

- Expirations
- Options Style
- Tick Size
- Trading Hours etc.

Product Offering

S&P 500

- E-mini S&P 500 Options
- Micro E-mini S&P 500 Options

Nasdaq-100

- E-mini Nasdaq-100 Options
- Micro E-mini Nasdaq-100 Options

Dow Jones Industrials Average

E-mini Dow Options

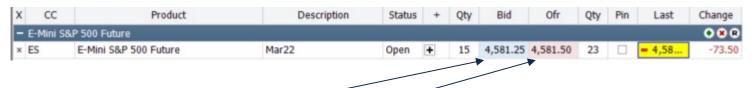
Russell 2000

• E-mini Russell 2000 Options

S&P 500

E-mini S&P 500 Futures and Options

- Equity Index Futures and Options have a "multiplier" that determines the contract value
 - E-mini S&P 500 Multiplier = 50
 - Current E-mini S&P 500 Price = 4,581.25
 - Current Notional Value E-mini S&P 500: 4,581.25*50= \$229,062.50



- Therefore, the difference between $4,58\overline{1.25}$ and $4,58\overline{1.50}$ in dollars: .25*50 = \$12.50
 - "Minimum Tick Value"
 - 1 Full Index Point: \$12.50*4 = \$50.00

Source: CME Direct 1/18/2022 9:00 AM

S&P 500

E-mini S&P 500 Futures and Options

• Similarly, E-mini S&P 500 Options have a \$50 multiplier

Open Int	Volume	Last	Vol	Δ	QS	+	C Qty	C Bid	Theo	C Ofr	C Qty	Strike	P Qty	P Bid	Theo	P Ofr	P Qty	+	QS	Δ	Vol	Last	Volume	Ope
E-Mini S&	S&P 500 Week3 Opt Jan22, 3.18 days, F: 4,574.00													4575.	00 ▼ ▲	10 strik	ces - +							
-Mini S&P 5	00 Future Mar2	2											32	4,573.75		4,574.00	12	+				- 4,57	1,177,5	2,22.
111			25.33%	0.57		+	14	53.25	53.32	53.75	67	4555.00	84	34.25	34.19	34.75	126	+	QS	-0.43	25.33%	↑ 34.50	228	683
426	1 -		500 Futui		2 5	+	72	50.00	50.21	50.50	28	4560.00	99	36.00	36.09	36.50	43	+	QS	-0.44	25.14%	↑ 36.00	309	1,81
96	3	E. ES, G	LOBEX: ES]	0.01	S	+	65	47.00	47.18	47.50	45	4565.00	105	38.00	38.06	38.50	46	+	QS	-0.46	24.94%	1 38.25	643	1,07
1,383	78 🕹	44.75	24.75%	0.52	QS	+	79	44 00	44.26	44 50	30	4570.00	112	40.00	40.13	40.75	135	+	QS	-0.48	24.75%	4 0.25	1,001	2,22
531	279 🕹	41.25	24.56%	0.50	QS	+	44	41.25	41.43	41.75	58	4575.00	83	42.25	42.30	42.75	106	+	QS	-0.50	24.56%	1 42.50	2,231	5,33
1,237	183 =	39.00	24.37%	0.48	QS	+	86	38.50	38.69	39.00	109	4580.00	75	44.50	44.57	45.00	82	+	QS	-0.52	24.37%	1 45.00	1,182	2,59
129	253 🕹	35.75	24.18%	0.46	QS	+	135	35.75	36.05	36.25	52	4585.00	39	46.75	46.93	47.50	61	+	QS	-0.54	24.18%	42.00	490	1,32
958	406 4	36.25	23.99%	0.44	QS	+	117	33.25	33.51	33.75	89	4590.00	67	49.00	49.39	49.75	19	+	QS	-0.56	23.99%	43.25	996	1,81
243	257 🕹	31.25	23.81%	0.42	QS	+	142	30.75	31.09	31.25	67	4595.00	55	51.50	51.96	52.25	14	+	QS	-0.58	23.81%	1 49.00	227	1,29
3,937	2,418 4	28.75	23.62%	0.40	QS	+	103	28.50	28.75	29.00	132	4600.00	61	54.25	54.62	55.00	30	+	QS	-0.60	23.62%	↑ 55.00	5,852	6,88

Current E-mini S&P 500 "Weekly" Option

41.25 Bid @ 41.75 Offer

• In dollar terms: 41.75*50=\$2,087.50

Source: CME Direct 1/18/2022 9:10 AM



E-mini S&P 500 Options

Expirations

- Weekly (Friday) (European)
- Monday (European)
- Wednesday (European)
- End of Month (European)
- Quarterly (American)

Trading Hours

Sunday – Friday 5:00 PM – 4:00 PM (Central)

Expiration

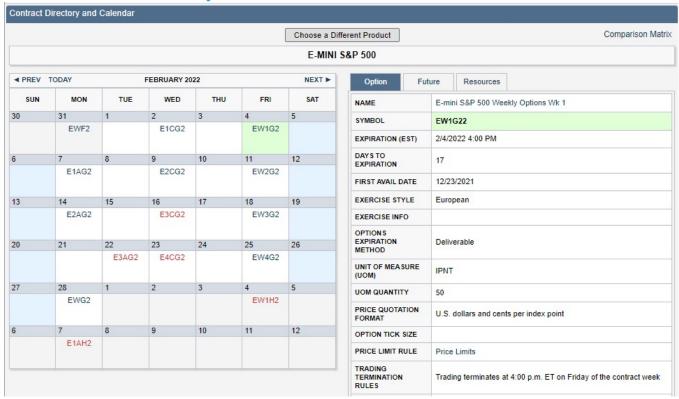
Quarterly

- 8:30 AM Central Time
- SOQ

All Other Expiries

• 3:00 PM Central Time

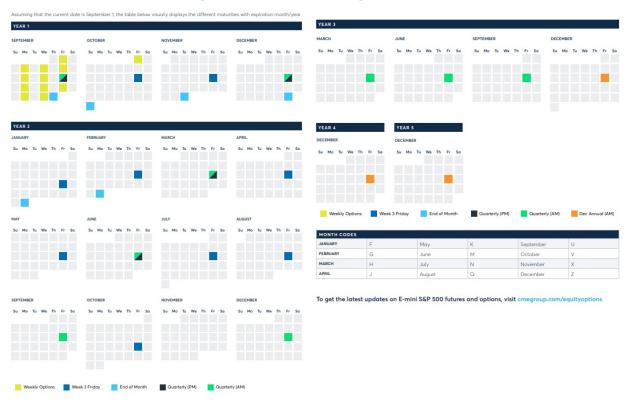
E-mini S&P 500 Options



Source: CME Contract Directory Tool (https://www.cmegroup.com/tools-information/quikstrike/contract-directory-and-calendar-tool.html)



E-mini S&P 500 Options-Full Expiration Calendar



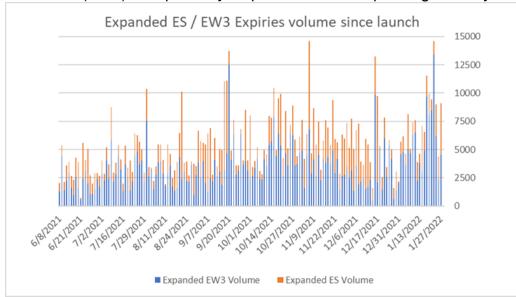
Source: CME Option Listing Calendar (https://www.cmegroup.com/trading/equity-index/files/es-options-product-codes-and-listing-calendar.pdf)



E-mini S&P 500 Options

New longer-dated hedging opportunities spanning 5 years.

- Quarterly (ES) American style options available for 9 consecutive quarters, 3 December expiries.
- Week 3 (EW3) European style options available spanning over 1 year.



Source: CME Group



Micro E-mini S&P 500 Options

Micro E-mini S&P 500 Options are 1/10 size of E-mini

Multiplier = 5



Current Micro E-mini S&P 500 "Weekly" Option

• 39.75 @ 40.25 Offer

• In dollar terms: 40.25*5=\$201.25

Source: CME Direct 1/18/2022 10:30 AM Central



Micro E-mini S&P 500 Options

Expirations

- Weekly (Friday) (European)
- End of Month (European)
- Quarterly (American)

Trading Hours

Sunday – Friday 5:00 PM – 4:00 PM (Central)

Expiration

Quarterly

- 8:30 AM Central Time
- SOQ

All Other Expiries

• 3:00 PM Central Time



Nasdaq-100

E-mini Nasdaq-100 Futures and Options

- E-mini Nasdaq-100 Multiplier = 20
- Current E-mini Nasdaq-100 Price = 15,343.50
- Current Notional Value E-mini Nasdaq-100: 15,343.50*20= \$306,870

Open Int	Volume	Last	Vol	Δ	QS	+	C Qty	C Bid	Theo	C Ofr	C Qty	Strike	P Qty	P Bid	Theo	P Ofr	P Qty	+	QS	Δ	Vol		Last	Volume	Open Int
E-Mini Nas	sdaq-100 Wee	k3 Opt Jar	22, 3.17 da	ys, F: 15	5,343.5	0						ATM		15340.	00 ▼ ▲	10 stril	kes - +						100000000		
-Mini Nasda	q-100 Future	Mar22											1	15,343.25		15,343.75	2	+				-	15,343.50	557,528	231,505
33	31	202.00	32.32%	0.54	QS	+	15	204.00	206.06	208.00	15	15300	50	161.75	163.69	165.00	7	+	QS	-0.46	32.32%	+	160.00	420	547
	5	1212.00	32.22%	0.53	QS	+	28	198.25	200.23	202.25	25	15310	50	166.00	167.86	169.00	7	+	QS	-0.47	32.22%	t	174.00	12	48
20	4	182.00	32.12%	0.53	QS	+	35	192.50	194.49	196.50	35	15320	50	169.50	172.11	173.00	8	+	QS	-0.47	32.12%	+	190.00	4	30
12	6	196.00	32.02%	0.52	QS	+	48	187.00	188.82	190.75	45	15330	3	174.00	176.45	178.50	50	+	QS	-0.48	32.02%	+	155.00	5	46
			31.92%	0.51	QS	+	45	181.25	183.25	185.25	45	15340	50	178.00	180.87	182.00	8	+	QS	-0.49	31.92%		197.00	4	95
9	14	170.25	31.82%	0.50	QS	+	50	175.75	177.76	179.75	58	15350	58	182.50	185.39	186.50	8	+	QS	-0.50	31.82%	t	200.00	30	89
5			31.72%	0.49	Qs	+	3	171.00	172.36	174.25	50	15360	45	188.25	189.99	191.25	8	+	Qs	-0.51	31.72%	+	225.25	12	73
171	5	152.50	31.62%	0.48	QS	+	50	165.25	167.05	169.00	50	15370	40	193.00	194.67	196.50	8	+	QS	-0.52	31.62%			2	158
2	23	148.25	31.52%	0.47	QS	+	50	160.00	161.83	163.75	50	15380	35	197.75	199.45	200.75	8	+	QS	-0.53	31.52%			1	344
28			31.43%	0.46	QS	+	50	154.75	156.75	159.25	8	15390	3	201.50	204.37	206.50	33	+	QS	-0.54	31.43%				50

Current E-mini Nasdaq-100 "Weekly" Option

• 181.25 Bid @ 185.25

In dollar terms: 185.25*20=\$3,705

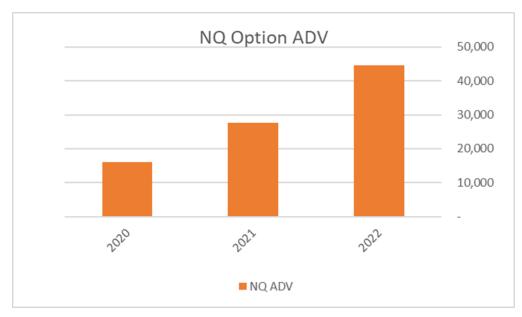
Source: CME Direct 1/18/2022 10:55 AM



Nasdaq-100

E-mini Nasdaq-100 have seen impressive volume growth since 2020.

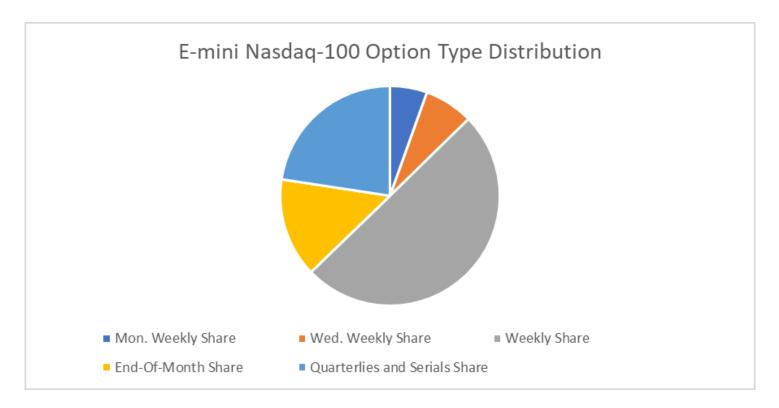
- Monday & Wednesday options, listed in April 2021, have contributed significantly to this growth.
- Week 3 (QN3) European style options available for the first time on Quarterly dates.



Source: CME Group



Nasdaq-100



Source: CME Group



E-mini Nasdaq-100 Options

Expirations

- Weekly (Friday) (European)
- Monday (European)
- Wednesday (European)
- End of Month (European)
- Quarterly (American)

Trading Hours

Sunday – Friday 5:00 PM – 4:00 PM (Central)

Expiration

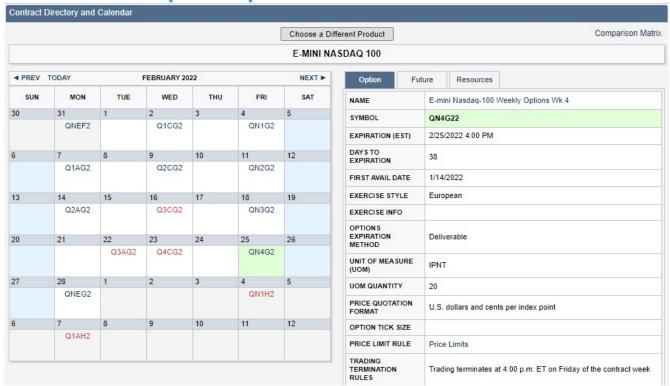
Quarterly

- 8:30 AM Central Time
- SOQ

All Other Expiries

• 3:00 PM Central Time

E-mini Nasdaq-100 Options



Source: CME Contract Directory Tool (https://www.cmegroup.com/tools-information/quikstrike/contract-directory-and-calendar-tool.html)



Micro E-mini Nasdaq-100 Options

Micro E-mini Nasdaq-100 Options are 1/10 size of E-mini

• Multiplier = 2



Current E-mini Nasdaq-100 "Weekly" Option

• 182.50 Bid @ 187.00

• In dollar terms: 187.00*2=\$374.00

Source: CME Direct 1/18/2022 11:20 AM



Micro E-mini Nasdaq-100 Options

Expirations

- Weekly (Friday) (European)
- End of Month (European)
- Quarterly (American)

Trading Hours

Sunday – Friday 5:00 PM – 4:00 PM (Central)

Expiration

Quarterly

- 8:30 AM Central Time
- SOQ

All Other Expiries

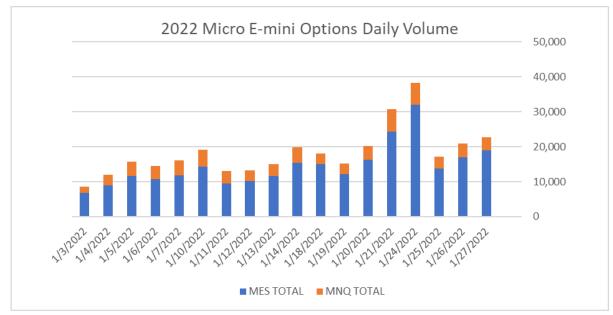
• 3:00 PM Central Time



Micro E-mini S&P 500 / Nasdaq-100 Options

Micro E-mini options have seen promising growth since August 2020 listing.

- 2021 ADV was roughly 10K contracts.
- Traders increasingly embracing MNQ options, nearly 4K ADV to start 2022.



Source: CME Group



Dow Jones Industrials

E-mini Dow Futures and Options

- E-mini Dow Multiplier = 5
- Current E-mini Dow Price = 35,325
- Current Notional Value E-mini Dow: 35,325*5= \$176,625

Open Int	Volume	Last	Vol	Δ	QS	+	C Qty	C Bid	Theo	C Ofr	C Qty	Strike	P Qty	P Bid	Theo	P Ofr	P Qty	+	QS	Δ	Vol	Last	Volume	Open Int
E-Mini Do	w (\$5) Option	Week3 Op	t Jan22, 3.0	3 days	F: 35,	325						ATM		353	50 ▼	10 str	ikes – +							
-Mini Dow ((\$5) Future Ma	r22		9777									4	35,325		35,327	5	+				1 35,325	291,113	92,910
			22.25%	0.60	QS	+	15	350	382	412	15	35150	16	177	205	230	16	+	QS	-0.40	22.25%			1
1			22.07%	0.57	QS QS	+	15	321	351	383	15	35200	16	193	224	248	16	+	QS	-0.43	22.07%			
			21.88%	0.55	QS	+	15	290	321	349	15	35250	16	214	244	270	15	+	QS	-0.45	21.88%			
	1	280	21.70%	0.52	QS	+	15	263	292	322	15	35300	15	233	265	290	15	+	QS	-0.48	21.70%	114	1	1
1			21.52%	0.49	QS	+	16	236	265	294	15	35350	15	255	288	313	15	+	QS	-0.51	21.52%			
			21.34%	0.46	QS	+	15	209	240	265	15	35400	15	280	313	340	15	+	QS	-0.54	21.34%			
			21.16%	0.43	QS	+	16	185	215	240	16	35450	15	304	338	366	15	+	QS	-0.57	21.16%			
7			20.98%	0.40	QS	+	16	163	193	216	15	35500	15	330	366	394	15	+	QS	-0.60	20.98%			1
			20.79%	0.37	QS QS	+	16	142	171	195	16	35550	14	358	394	423	14	+	QS	-0.63	20.79%			
			20.60%	0.34	QS	+	16	122	151	174	16	35600	14	387	424	454	14	+	QS	-0.66	20.60%			1

Current E-mini Dow "Weekly" Option

• 236 Bid @ 294 Offer

• In dollar terms: 294*5=**\$1,470**

Source: CME Direct 1/18/2022 2:10 PM



E-mini Dow Options

Expirations

- Weekly (Friday) (European)
- End of Month (European)
- Quarterly (American)

Trading Hours

Sunday – Friday 5:00 PM – 4:00 PM (Central)

Expiration

Quarterly

- 8:30 AM Central Time
- SOQ

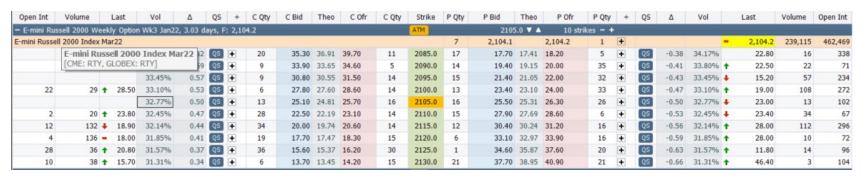
All Other Expiries

• 3:00 PM Central Time

Russell 2000

E-mini Russell 2000 Futures and Options

- E-mini Russell 2000 Multiplier = 50
- Current E-mini Russell 2000 Price = 2104.2
- Current Notional Value E-mini Russell 2000: 2,104.2*50 = \$105,210



Current E-mini Russell 2000 "Weekly" Option

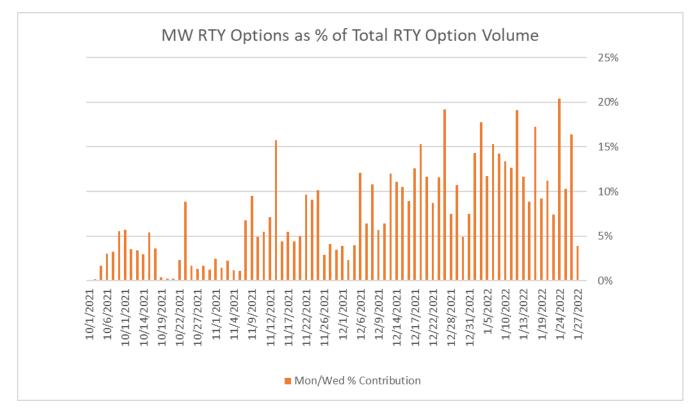
25.10 Bid @ Offer 25.70

In dollar terms: =25.70*50 = \$1,285

Source: CME Direct 1/18/2022 2:20 PM



Russell 2000



Source: CME Group



E-mini Russell 2000 Options

Expirations

- Weekly (Friday) (European)
- Monday (European)
- Wednesday (European)
- End of Month (European)
- Quarterly (American)

Trading Hours

Sunday – Friday 5:00 PM – 4:00 PM (Central)

Expiration

Quarterly

- 8:30 AM Central Time
- SOQ

All Other Expiries

• 3:00 PM Central Time

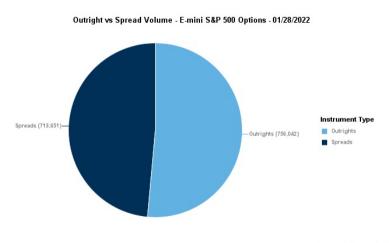
CME Equity Options Strategies

Top Strategies Executed in CME Equity Options

- Vertical
- Generic
- Ratio
- Delta-Hedged
- Butterfly
- Strangle
- Straddle
- Iron Condor
- 3-Way
- Box
- Iron Butterfly
- Diagonal
- Condor
- Risk Reversal
- Horizontal

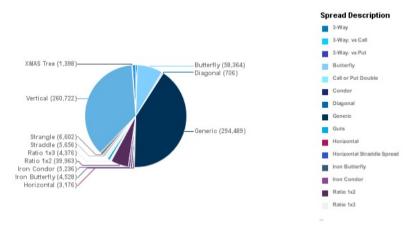
Source: CME Group

E-mini S&P 500 Options-Spread Activity



Total Volume: 1,469,693

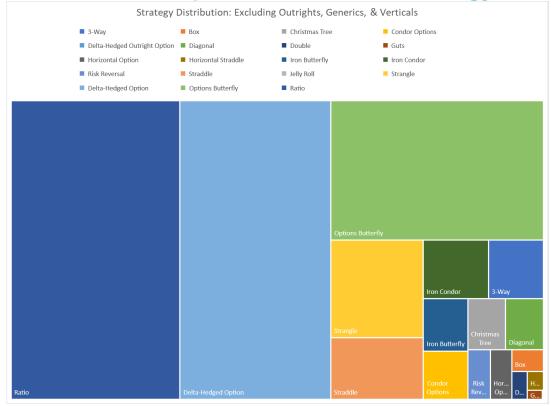
Volume by Spread Type - E-mini S&P 500 Options - 01/28/2022



Source: CME Spread Activity Report (https://www.cmegroup.com/trading/equity-index/daily-index-option-spread-activity-report.html)



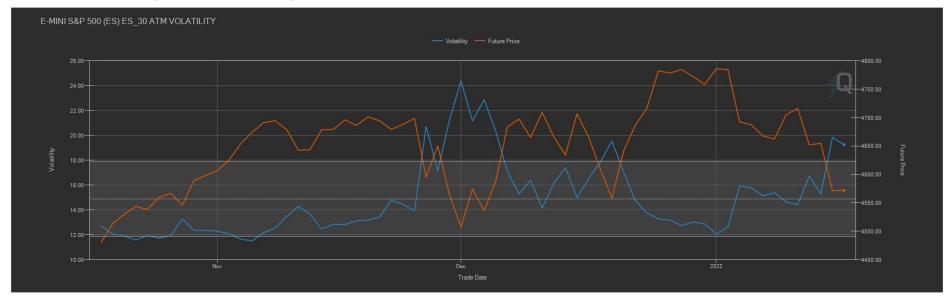
E-mini S&P 500 Options-Breadth of Strategy Activity



Source: CME Group

- Trader A believes the price of the E-mini S&P 500 will continue its recent downtrend
- They evaluate several different strategies using CME Group Products
 - Short E-mini S&P 500 Future
 - Buy E-mini S&P 500 Puts
 - Sell E-mini S&P 500 Calls

Due to the elevated levels of implied volatility relative to the last several weeks, the trader decides to sell E-mini S&P 500 Calls



Source: QuikStrike



Open Int	Volume	Last	Vol	Δ	QS	+	C Qty	C Bid	Theo	C Ofr	C Qty	Strike	P Qty	P Bid	Theo	P Ofr	P Qty	+	QS	Δ	Vol	Last	Volume	Open In
E-Mini S&	P 500 Week4 Op	ot Jan22,	9.08 days,	F: 4,570	.50	-						ATM		4570.	00 ▼ △	24 str	ikes – +	6	-					
-Mini S&P 5	00 Future Mar22	2	1,900										24	4,570.50		4,570.75	21	+				4,570.50	1,349,6	2,249,6
3	17 👃	94.25	22.32%	0.64	QS	+	6	95.25	95.28	96.00	9	4515.00	98	39.75	39.90	40.25	21	+	QS	-0.36	22.32%	↑ 36.75	71	66
13	8 4	89.75	22.18%	0.63	QS	+	1	91.75	91.78	92.50	24	4520.00	111	41.25	41.41	41.75	22	+	QS	-0.37	22.18%	1 41.00	136	30
38	5 🛧	99.50	22.04%	0.62	QS	+	28	88.25	88.34	89.00	28	4525.00	102	42.75	42.97	43.25	13	+	QS	-0.38	22.04%	1 41.50	189	2,18
154	2 👃	98.00	21.90%	0.61	QS	+	1	85.00	84.95	85.50	11	4530.00	20	44.50	44.58	45.00	96	+	QS	-0.39	21.90%	† 44.25	30	16
65	1	100.25	21.76%	0.60	QS	+	51	81.50	81.62	82.25	43	4535.00	91	46.00	46.24	46.50	12	+	QS	-0.40	21.76%	46.00	102	38
38	30 🕇	89.00	21.62%	0.58	QS	+	17	78.25	78.34	78.75	19	4540.00	98	47.75	47.97	48.25	19	+	QS	-0.42	21.62%	43.25	167	17
12	142 👃	77.00	21.49%	0.57	QS	+	7	75.00	75.15	75.50	19	4545.00	64	49.50	49.78	50.00	13	+	QS	-0.43	21.49%	44.75	145	61
124	936 🛧	74.50	21.35%	0.56	Qs	+	43	71.75	72.13	72.25	14	4550.00	83	51.25	51.51	51.75	6	+	Qs	-0.44	21.35%	↑ 51.25	670	1,18
14	80 🛨	70.00	21.21%	0.55	QS	+	49	68.50	69.03	69.25	29	4555.00	17	53.25	53.41	53.75	65	+	QS	-0.45	21.21%	▶ 51.00	187	20
54	129 🕇	75.25	21.07%	0.53	QS	+	64	65.50	65.99	66.25	70	4560.00	110	55.00	55.37	55.50	6	+	QS	-0.47	21.07%	↑ 55.50	151	27
137	13 👃	70.00	20.93%	0.52	QS	+	44	62.50	63.02	63.00	23	4565.00	75	57.00	57.39	57.50	10	+	QS	-0.48	20.93%	\$ 54.25	223	15
131	295 👃	60.00	20.80%	0.51	QS	+	49	59.50	60.13	60.25	75	4570.00	82	59.00	59.51	59.50	5	+	QS	-0.49	20.80%	↑ 59.50	244	38
424	136 🕈	58.50	20.66%	0.49	QS	+	7	56.75	57.29	57.25	63	4575.00	17	61.25	61.66	61.75	33	+	QS	-0.51	20.66%	55.25	323	46
102	86 🕹	62.50	20.52%	0.48	QS	+	90	53.75	54.51	54.50	90	4580.00	38	63.25	63.89	64.00	38	+	QS	-0.52	20.52%	↓ 57.75	349	32
64	22 🕇	59.75	20.38%	0.47	QS	+	86	51.00	51.80	51.50	17	4585.00	38	65.50	66.18	66.25	18	+	QS	-0.53	20.38%	↑ 64.75	92	10
58	168 🕈	56.50	20.25%	0.45	QS	+	4	48.50	49.19	49.00	101	4590.00	58	67.75	68.56	68.25	17	+	QS	-0.55	20.25%	♦ 67.00	29	48
96	168 🕇	52.25	20.11%	0.44	QS	+	54	45.75	46.62	46.25	71	4595.00	14	70.25	70.99	70.75	1	+	QS	-0.56	20.11%	♦ 80.00	7	32
241	656 👃	46.00	19.98%	0.42	QS	+	12	43.25	44.05	43.75	85	4600.00	14	72.75	73.67	73.25	6	+	QS	-0.58	19.98%	↑ 73.00	217	2,44
225	94 👃	46.50	19.84%	0.41	QS	+	13	40.75	41.62	41.25	127	4605.00	14	75.25	76.25	75.75	17	+	QS	-0.59	19.84%	67.75	51	22
144	128 🕇	45.25	19.71%	0.40	QS	+	99	38.25	39.30	38.75	43	4610.00	10	77.75	78.92	78.25	1	+	QS	-0.60	19.71%	♦ 69.50	47	35
45	75 👃	37.25	19.57%	0.38	QS	+	13	36.00	37.03	36.50	97	4615.00	24	80.25	81.65	81.00	17	+	Qs	-0.62	19.57%	↑ 74.50	23	7
183	143 👃	38.75	19.44%	0.37	QS	+	14	33.75	34.85	34.25	112	4620.00	8	83.25	84.47	83.75	1	+	QS	-0.63	19.44%	↑ 82.75	6	33
61	144 👃	31.75	19.31%	0.35	QS	+	86	31.50	32.75	32.00	105	4625.00	3	86.00	87.38	86.75	4	+	Qs	-0.65	19.31%	77.75	81	29
206	183 👃	30.25	19.17%	0.34	QS	+	7	29.50	30.70	30.00	155	4630.00	4	88.75	90.32	89.50	4	+	QS	-0.66	19.17%	▶ 88.50	2	47

Source: CME Direct 1/19/2022 1:00 PM



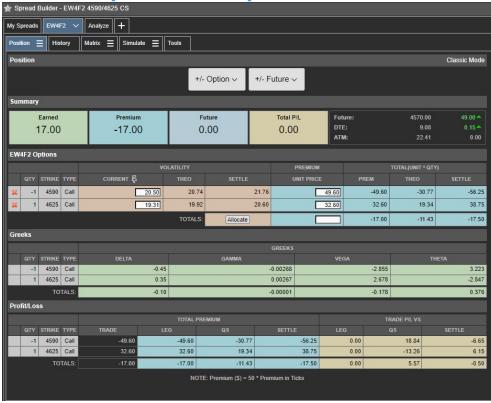
Due to the elevated levels of implied volatility relative to the last several weeks, the trader decides to sell E-mini S&P 500 Calls

In order to define the risk that the trader is exposed to, they decide to sell a Call Spread rather than a "naked" Call

Futures Price = 4,570

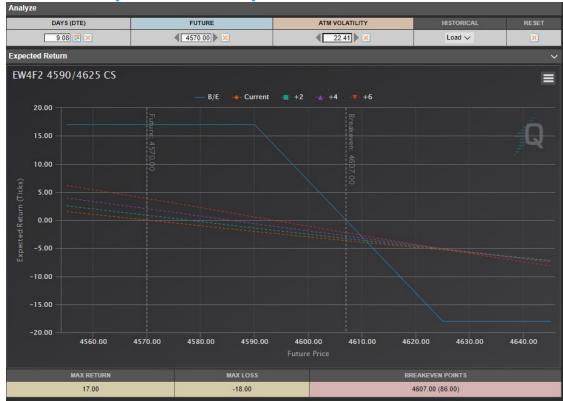
- Sell 1 4,590 Call @ 48.75 | Delta 45 | Expire 9 Days
- Buy 1 4,625 Call @ 31.75 | Delta 35 | Expire 9 Days

Trader A Collects 17 (48.75 minus 31.75) Points = \$850 (17*50)



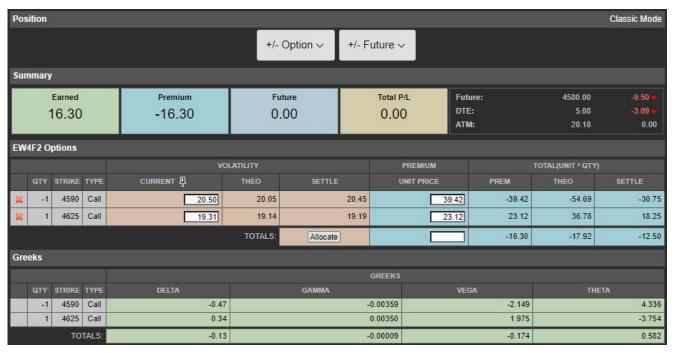
Source: QuikStrike





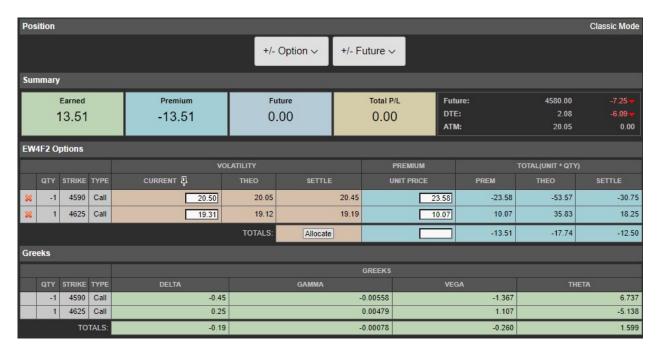


Days to Expiration – 9 days to 5 days Futures Price – Rallied from 4,570 to 4,580



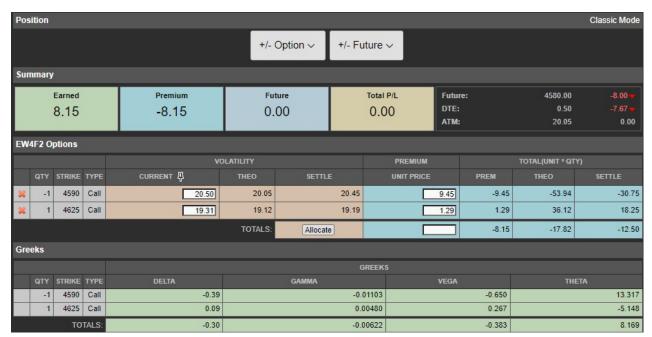


Days to Expiration – 5 days to 2 days Futures Price – Steady at 4,580





Days to Expiration – 2 days to .5 days Futures Price – Steady at 4,580





So, what happens next?

Remember, at initiation, our trader collected \$850.00

Futures Price = 4,570

- Sell 1 4,590 Call @ 48.75 | Delta 45 | Expire 9 Days
- Buy 1 4,625 Call @ 31.75 | Delta 35 | Expire 9 Days

Trader A Collects 17 (48.75 minus 31.75) Points = \$850 (17*50)

At expiration, E-mini S&P 500 futures price = 4,580

- Because both the Short (4,590) and Long (4,625) Calls are out of the money, they are worthless at expiration
- Therefore, the position simply "goes away" and the trader profits the \$850.00

HOWEVER,

Let's assume the futures price at expiration = 4,595

- Because the Short Call positions would be in the money, our trader would be assigned a Short futures position
- Trader could either post the margin to hold a short futures position (currently ~\$11,500)
- OR, liquidate the position. If the futures price remained at 4,595, the traders overall P&L on the trade would be
 - \$850.00 minus (5*\$50) = \$600.00

Vertical Spread Example – Micro E-Mini Nasdaq-100 Options

- Trader B believes the price of the Micro E-mini Nasdaq-100 is oversold and believes the index will bounce higher over the next several weeks
- Trader B likes the flexibility that the Micro-sized options provide to scale out of their position

Using QuikStrike, we created the following **hypothetical** position:

Long 5 Week 2 February 14,000 Call

- Micro E-mini Nasdaq-100 Futures Price: 13,900.75
- Days Until Expiration: 18
- ATM Volatility: 20%
- Premium (points): 195 per option (975 Total)
 - Premium (dollars): \$1,950

Vertical Spread Example – Micro E-Mini Nasdaq-100 Options

- Assume one week later, the futures price had indeed spiked higher by ~5%
- Implied Volatility has dropped by 2%

Long 5 Week 2 February 14,000 Call

- Micro E-mini Nasdaq-100 Futures Price: 14,595
- Days Until Expiration: 11
- ATM Volatility: 18%
- New Hypothetical Premium Value (points): 615 per option (3,075 Total)
 - Premium (dollars): \$6,150

Because of the flexibility that Micro-sized contracts provide, our Trader can take some of their risk off:

- Sell 3 @ 615 = 1,845 points (\$3,690)
- "Locks in" a minimum profit of at least \$1,740
- Remains Long 2 Calls

Vertical Spread Example – Micro E-Mini Nasdaq-100 Options

- Assume 10 days later, the futures price had fallen by 7%
- Implied Volatility has rising by 5%

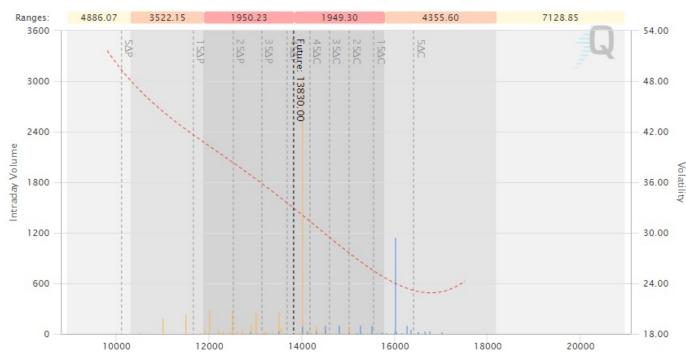
Long 5 Week 2 February 14,000 Call

- Micro E-mini Nasdaq-100 Futures Price: 13,574
- Days Until Expiration: 1
- ATM Volatility: 23%
- New Hypothetical Premium Value (points): 2.75 per option (5.5Total)
 - Premium (dollars): \$11.00

Even though the options have become nearly worthless, the ability of our trader to take some of their risk off after the initial price spike allows them to lock in profit on this trade



Put: 6,658 Call: 2,785 Vol: 37.31 Vol Chg: 4.15 Future Chg: -596.50



Source: QuikStrike (CME Group Website)





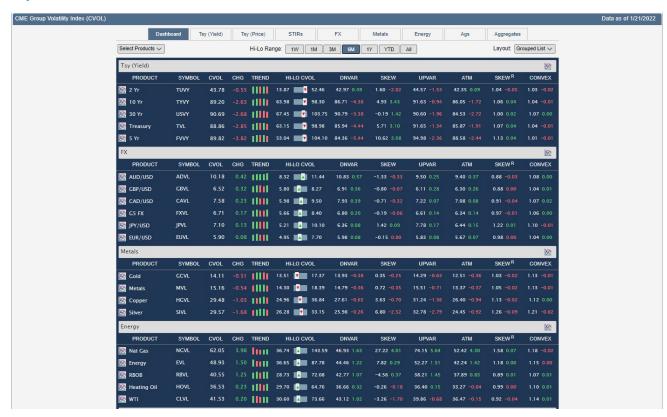
Source: QuikStrike (CME Group Website) 1/24/2022 11:50 AM





Source: QuikStrike (CME Group Website) 1/24/2022 11:50 AM





Source: CVOL (CME Group Website) 1/24/2022 11:50 AM



Questions?

For a copy of today's presentation, please email ActiveTrader @cmegroup.com

