

2019 DAILY INFORMATION BULLETIN - http://www.cmegroup.com/dailybulletin

CME Group, Inc.

20 South Wacker Drive, Chicago, Illinois 60606-7499.

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FINAL

PG47 BULLETIN # 99@

E-MINI S&P 500 CALL OPTIONS

Thu, May 23, 2019 PG47

INDIVIDUAL CONTRACT PRICE DATA FOR OPEN, HIGH, LOW, CLOSE AND SETTLEMENT PLUS CLEARED VOLUME FIGURES REFLECT BOTH CME AND REGULAR TRADING HOURS SESSIONS. VOLUME OR OPEN INTEREST (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: CASH FOR FUTURES, SPREADS, PRIOR DAYS' CLEARED TRADES (OUT-TRADES), POSITION ADJUSTMENTS, OPTIONS EXERCISES, POSITIONS IN DELIVERY, OR POSITIONS IN A CASH SETTLEMENT CYCLE. B=BID A=ASK N=NOMINAL P=POST SETTLEMENT SESSION #=NEW CONTRACT HIGH PRICE *=NEW CONTRACT LOW PRICE R=RECORD VOL OR OPN INT. SETTLEMENT PRICE DETERMINED BY CME RULE 813. B=BID A=ASK N=NOMINAL P=POST SETTLEMENT. CAB= (CABINET TRANSACTION) - 1/2 TICK VALUE = \$12.50 PRODCUT LISTINGS REPRESENT CONTRACTS WITH PRICE/VOLUME ACTIVITY AND/OR HAVE ESTABLISHED OPEN INTEREST. PRODUCTS ELIGIBLE TO TRADE BUT ARE INACTIVE DO NOT APPEAR IN THIS REPORT.

E-MINI S&P CONTRACTS LAST TRADE DATES

Table with columns for contract type (EMINI S&P FUT, EOM EMINI S&P OPT, etc.), expiration date (MAY19, JUN19, etc.), and last trade date (06/21, 07/31, etc.).

E-MINI S&P OPTIONS ON FUTURES

Table with columns for contract type (EW1, EW2, etc.), series (15-4425, 100-4425, etc.), and trading date (THU, MAY 23).

Table with columns for contract type (E1A, E1C, etc.), series (1400-3700, 100-4425, etc.), and trading date (THU, MAY 23).

E-MINI S&P FUTURES

Table with columns for contract type (EMINI S&P FUT), open range, high, low, closing range, sett. price & pt. chge, rth volume, globex volume, open interest, and contract high/low.

E-MINI S&P 500 FIXING PRICE (ESF): Sep19 2823.24

WK EW-W1 E-MINI S&P CALLS

Table with columns for strike, open range, high, low, closing range, sett. price & pt. chge, delta, exer cises, volume trades cleared, open interest, and contract high/low.

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E-MINI S&P 500 CALL OPTIONS

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PG47 BULLETIN # 99@ E-MINI S&P 500 CALL OPTIONS Thu, May 23, 2019 PG47

Table with columns for contract numbers (e.g., 2850, 2855, 2860), prices, and various option details. Includes a 'TOTAL' row and a 'JUL19 EOW1 MINI S&P C' section at the bottom.



E-MINI S&P 500 CALL OPTIONS

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PG47 BULLETIN # 99@

E-MINI S&P 500 CALL OPTIONS

Thu, May 23, 2019 PG47

WK EW-W2 E-MINI S&P CALLS

Table with columns: STRIKE, OPEN, RANGE, HIGH, LOW, CLOSING, RANGE, SETT. PRICE & PT. CHGE., DELTA, EXER CISES, VOLUME TRADES CLEARED, OPEN INTEREST, --CONTRACT-- HIGH, LOW. Includes data for EOW2 MINI S&P C and EOW4 MINI S&P C.

WK EW-W4 E-MINI S&P CALLS

Table with columns: STRIKE, OPEN, RANGE, HIGH, LOW, CLOSING, RANGE, SETT. PRICE & PT. CHGE., DELTA, EXER CISES, VOLUME TRADES CLEARED, OPEN INTEREST, --CONTRACT-- HIGH, LOW. Includes data for EOW4 MINI S&P C.

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E-MINI S&P 500 CALL OPTIONS

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Table with columns: PG47, BULLETIN # 99@, E-MINI S&P 500 CALL OPTIONS, Thu, May 23, 2019, PG47. Contains multiple columns of market data including prices, volumes, and option types.

E-MINI S&P CALLS

Table with columns: STRIKE, OPEN, RANGE, HIGH, LOW, CLOSING, RANGE, SETT. PRICE & PT. CHGE., DELTA, EXER CISES, VOLUME TRADES CLEARED, OPEN INTEREST, --CONTRACT-- HIGH, LOW. Contains detailed call option data for various strikes.

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E-MINI S&P 500 CALL OPTIONS

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PG47 BULLETIN # 99@ E-MINI S&P 500 CALL OPTIONS Thu, May 23, 2019 PG47

Table with columns for price, bid, ask, volume, and other market data for E-MINI S&P 500 CALL OPTIONS. Includes rows for various strike prices and option types.

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PG47	BULLETIN # 99@	E-MINI S&P 500 CALL OPTIONS								Thu, May 23, 2019	PG47			
3270	----	----	----	----	.05-	5	.000	----	----	535	-	1	15.50B	.10A
3275	----	----	----	----	.05-	5	.000	----	----	423	-	1	15.00B	.10A
3280	----	----	----	----	.05-	5	.000	----	----	451	-	10	14.50B	.10
3290	----	----	----	----	.05-	5	.000	----	----	1123	UNCH		13.50B	.10A
3300	0.05	.05	.05	----	.05-	5	.000	----	5	3870	-	5	12.50B	.05
3310	----	----	----	----	.05-	5	.000	----	----	2808	UNCH		11.50B	.10A
3320	----	----	----	----	.05	UNCH	.000	----	----	46	UNCH		10.75B	.10A
3325	----	----	----	----	.05	UNCH	.000	----	----	1563	UNCH		10.25B	.10
3330	----	----	----	----	.05	UNCH	.000	----	----	544	UNCH		10.00B	.10A
3340	----	----	----	----	.05	UNCH	.000	----	----	1011	UNCH		9.25B	.10A
3350	----	----	----	----	.05	UNCH	.000	----	----	624	UNCH		8.75B	.10
3360	----	----	----	----	.05	UNCH	.000	----	----	1001	UNCH		8.00B	.10A
3370	----	----	----	----	.05	UNCH	.000	----	----	213	UNCH		7.50B	.10A
3375	----	----	----	----	.05	UNCH	.000	----	----	981	UNCH		7.25B	.05
3380	----	----	----	----		CAB	.000	----	----	325	UNCH		7.00B	.10A
3390	----	----	----	----		CAB	.000	----	----	504	UNCH		6.50B	.10A
3400	----	----	----	----		CAB	.000	----	----	970	UNCH		6.25B	.10
3410	----	----	----	----		CAB	.000	----	----	602	UNCH		5.75B	.15
3420	----	----	----	----		CAB	.000	----	----	269	UNCH		5.50B	.15
3425	----	----	----	----		CAB	.000	----	----	1119	UNCH		5.25B	.05
3430	----	----	----	----		CAB	.000	----	----	250	UNCH		5.25B	.15
3440	----	----	----	----		CAB	.000	----	----	62	UNCH		4.95B	.10
3450	----	----	----	----		CAB	.000	----	----	300	UNCH		4.65B	.10
3460	----	----	----	----		CAB	.000	----	----	307	UNCH		4.40B	.20A
3470	----	----	----	----		CAB	.000	----	----	583	UNCH		4.20B	.25
3475	----	----	----	----		CAB	.000	----	----	524	UNCH		4.30	.05
3480	----	----	----	----		CAB	.000	----	----	42	UNCH		3.10B	.10A
3490	----	----	----	----		CAB	.000	----	----	2	-	1	3.00B	.05
3500	----	----	----	----		CAB	.000	----	----	1081	UNCH		3.75	.05
3510	----	----	----	----		CAB	.000	----	----	122	UNCH		2.45	.05
3520	----	----	----	----		CAB	.000	----	----	278	UNCH		1.75B	.05
3525	----	----	----	----		CAB	.000	----	----	773	UNCH		3.20B	.05A
3530	----	----	----	----		CAB	.000	----	----	1044	UNCH		1.70B	.05
3540	----	----	----	----		CAB	.000	----	----	162	UNCH		1.60B	.05
3550	----	----	----	----		CAB	.000	----	----	607	UNCH		2.85B	.05
3575	----	----	----	----		CAB	.000	----	----	6	UNCH		2.60B	.05
3600	----	----	----	----		CAB	.000	----	----	99	UNCH		2.35B	.10
3625	----	----	----	----		CAB	.000	----	20	44	-	1	2.20	.15
3650	----	----	----	----		CAB	.000	----	----	31	UNCH		1.95B	.05A
3675	----	----	----	----		CAB	.000	----	----	110	UNCH		1.80B	.10
3700	----	----	----	----		CAB	.000	----	----	43	UNCH		1.65B	.65
3725	----	----	----	----		CAB	.000	----	----	10	UNCH		1.50B	.60A
3750	----	----	----	----		CAB	.000	----	----	105	UNCH		1.40B	.10
3775	----	----	----	----		CAB	.000	----	----	40	UNCH		1.25B	.15A
3800	----	----	----	----		CAB	.000	----	----	1	UNCH		1.15B	.15A
3825	----	----	----	----		CAB	.000	----	----	250	UNCH		1.05B	.40A
3875	----	----	----	----		CAB	.000	----	----	2	UNCH		.90B	.25A
3900	----	----	----	----		CAB	.000	----	----	28	UNCH		.90	.25A
3925	----	----	----	----		CAB	.000	----	----	299	UNCH		.70B	.10
3950	----	----	----	----		CAB	.000	----	----	299	UNCH		.75	.10
3975	----	----	----	----		CAB	.000	----	----	1	UNCH		.60	.20A
4000	----	----	----	----		CAB	.000	----	----	109	UNCH		.60	.05
4025	----	----	----	----		CAB	.000	----	----	101	UNCH		.60	.05
4050	----	----	----	----		CAB	.000	----	----	25	UNCH		.45B	.20A
4100	----	----	----	----		CAB	.000	----	----	252	UNCH		.60	.15
4275	----	----	----	----		CAB	.000	----	----	400	UNCH		.25	.20A
4300	----	----	----	----		CAB	.000	----	----	800	UNCH		.25	.20A
4400	----	----	----	----		CAB	.000	----	----	1	UNCH		.30	.15A
TOTAL										60076		436556	-	1219
SEP19	EMINI S&P CALL													
1825	----	----	----	----	999.00-	3820	.990	----	----	50	UNCH		1130.75B	538.50A
1850	----	----	----	----	974.10-	3810	.989	----	----	50	UNCH		1105.75B	517.50A
1875	----	----	----	----	949.10-	3810	.988	----	----	50	UNCH		1080.75B	496.50A
2075	----	----	738.50A	----	751.00-	3750	.975	----	----	12	UNCH		904.00B	340.00A
2080	----	----	733.75A	----	746.10-	3750	.974	----	----	1	UNCH		899.25B	336.50A
2140	----	----	675.25A	----	687.30-	3720	.967	----	----	5	UNCH		842.50B	294.00A
2150	----	----	665.50A	----	677.60-	3710	.966	----	----	166	UNCH		833.00B	287.00A
2170	----	----	646.00A	----	658.10-	3700	.963	----	----	53	UNCH		814.25B	273.50A
2175	----	----	641.25A	----	653.30-	3690	.962	----	----	50	UNCH		809.50B	270.25A
2180	----	----	636.50A	----	648.50-	3680	.961	----	----	52	UNCH		804.75B	266.75A
2190	----	----	626.75A	----	638.80-	3670	.959	----	----	51	UNCH		795.50B	260.25A
2200	----	----	617.25A	----	629.10-	3670	.958	----	----	24	UNCH		786.25B	253.75A
2210	----	----	607.50A	----	619.50-	3650	.956	----	----	3000	UNCH		776.75B	247.25A
2220	----	----	598.00A	----	609.80-	3650	.954	----	----	1	UNCH		767.50B	241.00A
2225	----	----	593.25A	----	605.00-	3640	.953	----	----	3000	UNCH		763.00B	237.75A
2240	----	----	578.75A	----	590.60-	3620	.950	----	----	2515	UNCH		749.00B	228.50A
2250	----	----	569.25A	----	581.00-	3620	.948	----	----	48	UNCH		739.75B	222.25A
2260	----	----	559.75A	----	571.50-	3600	.945	----	----	1	UNCH		730.50B	216.25A
2275	----	----	545.50A	----	557.20-	3580	.942	----	----	120	UNCH		716.75B	207.25A
2290	----	----	531.25A	----	542.90-	3560	.938	----	----	121	UNCH		703.00B	198.50A
2300	----	----	521.75A	----	533.40-	3550	.936	----	----	746	UNCH		693.75B	192.50A
2310	----	----	512.25A	----	523.90-	3540	.933	----	----	2049	UNCH		684.50B	187.00A
2320	----	----	503.00A	----	514.40-	3530	.930	----	----	1144	UNCH		675.50B	181.25A
2330	----	----	498.25A	----	509.70-	3520	.929	----	----	52	UNCH		671.00B	178.50A
2350	----	----	493.50A	----	505.00-	3510	.927	----	----	1007	UNCH		666.25B	175.75A
2340	----	----	484.25A	----	495.60-	3500	.924	----	----	61	UNCH		657.25B	170.25A
2350	494.75	500.00B	475.00A	----	486.20-	3490	.921	----	4	649	+	1	648.25B	165.00A
2360	----	----	465.50A	----	476.80-	3480	.918	----	----	8	UNCH		639.25B	159.75A
2370	----	----	456.25A	----	467.50-	3460	.915	----	----	26	UNCH		630.25B	154.50A
2375	----	----	451.50A	----	462.90-	3440	.913	----	----	2	UNCH		625.75B	152.00A
2380	----	----	447.00A	----	458.20-	3440	.911	----	----	110	UNCH		621.25B	149.50A
2390	----	----	437.75A	----	448.90-	3420	.907	----	----	20	UNCH		612.25B	144.50A
2400	----	----	428.50A	----	439.70-	3400	.904	----	----	226	UNCH		603.25B	139.50A
2410	----	----	419.25A	----	430.50-	3380	.899	----	----	252	UNCH		594.50B	134.75A
2420	----	----	410.00A	----	421.30-	3360	.895	----	----	35	UNCH		585.50B	130.00A
2425	----	----	405.50A	----	416.70-	3360	.893	----	----	63	UNCH		581.00B	127.75A
2430	----	----	401.00A	----	412.20-	3340	.891	----	----	49	UNCH		576.50B	125.50A
2450	----	----	383.00A	----	394.00-	3300	.882	----	----	967	UNCH		559.00B	116.50A
2460	388.75	391.00B	374.00A	----	385.00-	3270	.877	----	1	151	+	1	550.00B	112.25A
2470	----	----	365.00A	----	376.00-	3250	.872	----	----	69	UNCH		541.25B	108.00A
2475	----	----	360.75A	----	371.50-	3240	.869	----	----	50	UNCH		537.00B	105.75A
2480	370.75	372.75B	356.25A	----	367.00-	3230	.867	----	1	279	+	1	532.50B	103.75A
2490	----	----	347.25A	----	358.10-	3200	.862	----	----	2	UNCH		523.75B	99.75A
2500	----	----	338.50A	----	349.20-	3180	.856	----	----	2023	UNCH		515.25B	95.75A
2510	----	----	329.75A	----	340.40-	3150	.850	----	----	152	UNCH		506.50B	92.00A
2520	----	----	321.00A	----	331.60-	3120	.844	----	----	334	UNCH		498.00B	88.25A
2525	326.75	329.00B	316.75A	----	327.20-	3110	.841	----	1	61	+	1	493.50B	86.50A
2530	----	----	312.50A	----	322.80-	3100	.838	----	----	407	UNCH		489.25B	84.75A
2540	----													



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PG47 BULLETIN # 99@ E-MINI S&P 500 CALL OPTIONS Thu, May 23, 2019 PG47

Table with columns for price, bid, ask, volume, and other market data for E-MINI S&P 500 CALL OPTIONS. Includes rows for various strike prices and volumes, ending with a 'CAB' section.



FINAL

PG47 BULLETIN # 99@ E-MINI S&P 500 CALL OPTIONS Thu, May 23, 2019 PG47

Table with columns for strike price, bid, ask, volume, and open interest. Includes rows for various call options and a summary row at the bottom.

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Table with columns for price, quantity, and status. Includes rows for various call options and a TOTAL row.

Table for MAR20 EMINI S&P CALL with columns for price, quantity, and status. Includes a TOTAL row.

Table for MAY19 with columns for price, quantity, and status. Includes a TOTAL row.

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Table with columns for price, bid, ask, volume, and open interest. Rows include various call option contracts for E-mini S&P 500, ranging from 2660 to 1800, with a total volume of 123065 and open interest of 263045.

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1930	----	----	----	----	892.20-	3790	.998	----	----	6	UNCH	901.75B	536.50A	
1940	----	----	----	----	882.20-	3800	.998	----	----	6	UNCH	892.00B	527.50A	
2010	----	----	----	----	812.40-	3800	.997	----	----	1	UNCH	822.75B	466.25A	
2100	----	----	----	----	722.80-	3790	.996	----	----	5	UNCH	789.25B	390.25A	
2320	----	----	----	----	504.30-	3760	.985	----	----	3	UNCH	632.25B	223.50A	
2325	----	----	----	----	499.30-	3760	.985	----	----	2	UNCH	627.50B	220.00A	
2330	----	----	----	----	494.40-	3750	.984	----	----	4	UNCH	622.50B	216.75A	
2340	----	----	----	----	484.50-	3750	.983	----	6 -	1		612.50B	210.00A	
2350	----	----	----	----	474.60-	3750	.982	----	11 -	1		606.00B	203.25A	
2360	----	----	472.50A	----	464.80-	3740	.981	----	3 -	3		596.00B	196.75A	
2370	----	----	462.75A	----	454.90-	3740	.980	----	4 -	2		586.25B	190.25A	
2375	----	----	457.75A	----	450.00-	3730	.979	----	6 -	2		581.25B	187.00A	
2380	----	----	452.75A	----	445.10-	3730	.978	----	9 -	2		576.25B	184.00A	
2390	----	----	443.00A	----	435.30-	3720	.977	----	9 -	6		566.50B	177.75A	
2400	----	----	433.25A	----	425.40-	3720	.975	----	11 -	2		556.50B	171.50A	
2410	----	----	423.50A	----	415.60-	3710	.973	----	12 -	4		546.75B	165.50A	
2420	----	----	413.50A	----	405.80-	3710	.971	----	11 -	2		537.00B	159.50A	
2425	----	----	408.75A	----	400.90-	3700	.970	----	3	UNCH	532.00B	156.50A		
2430	----	----	403.75A	----	396.10-	3690	.969	----	7	UNCH	536.25B	153.50A		
2440	----	----	375.00A	----	386.30-	3690	.967	----	7	UNCH	526.50B	147.75A		
2450	----	----	365.25A	----	376.60-	3670	.965	----	38	UNCH	516.75B	142.00A		
2460	----	----	355.50A	----	366.80-	3670	.962	----	5	UNCH	506.75B	136.50A		
2470	----	----	346.00A	----	357.20-	3650	.959	----	7 -	1		497.00B	131.00A	
2475	----	----	341.00A	----	352.30-	3650	.958	----	16 -	14		492.25B	128.25A	
2480	----	----	336.25A	----	347.50-	3640	.956	----	9	UNCH	487.25B	125.75A		
2490	----	----	326.75A	----	337.80-	3630	.952	----	5	UNCH	477.50B	120.50A		
2500	----	----	317.25A	----	328.20-	3610	.949	----	8	UNCH	467.75B	115.25A		
2510	----	----	307.75A	----	318.60-	3600	.945	----	8	UNCH	457.75B	110.25A		
2520	----	----	298.25A	----	309.10-	3570	.941	----	36	UNCH	448.00B	105.50A		
2525	----	----	293.50A	----	304.30-	3570	.939	----	8	UNCH	443.25B	103.00A		
2530	----	----	288.75A	----	299.60-	3550	.937	----	3	UNCH	438.25B	100.50A		
2540	----	----	279.25A	----	290.10-	3530	.932	----	4	UNCH	428.50B	96.00A		
2545	----	----	*274.50A	----	285.30-	3530	.929	----	1	UNCH	423.75B	274.50A		
2550	----	----	269.75A	----	280.60-	3510	.927	----	1	UNCH	418.75B	91.50A		
2555	----	----	*265.25A	----	275.90-	3500	.924	----	3	UNCH	414.00B	265.25A		
2560	----	----	260.50A	----	271.20-	3490	.921	----	3	UNCH	409.00B	87.00A		
2565	----	----	*256.00A	----	266.50-	3480	.918	----	1	UNCH	404.25B	256.00A		
2570	----	----	251.25A	----	261.80-	3470	.915	----	2	UNCH	399.50B	82.75A		
2575	----	----	246.25A	----	257.10-	3460	.912	----	1	UNCH	394.50B	80.75A		
2580	----	----	241.75A	----	252.50-	3440	.908	----	266	UNCH	389.75B	78.50A		
2585	----	----	*237.25A	----	247.80-	3430	.905	----	1	UNCH	384.75B	237.25A		
2590	----	----	232.50A	----	243.20-	3420	.901	----	145	UNCH	380.00B	74.50A		
2600	----	----	223.50A	----	234.00-	3390	.894	----	117	UNCH	370.25B	70.75A		
2610	----	----	214.50A	----	224.90-	3350	.885	----	98 -	1		360.75B	67.00A	
2615	----	----	*210.00A	----	220.30-	3340	.881	----	1	UNCH	355.75B	210.00A		
2620	----	----	205.50A	----	215.80-	3320	.877	----	155 -	2		351.00B	63.50A	
2625	----	----	201.00A	----	211.30-	3300	.872	----	15	UNCH	341.25B	61.75A		
2630	----	----	196.50A	----	206.80-	3280	.868	----	26	UNCH	341.50B	60.00A		
2640	----	----	187.75A	----	197.80-	3250	.857	----	8	UNCH	332.00B	56.50A		
2645	----	----	*183.50A	----	193.40-	3230	.852	----	3	UNCH	327.00B	183.50A		
2650	----	----	179.00A	----	188.90-	3210	.847	----	51	UNCH	322.25B	53.25A		
2655	----	----	*174.75A	----	184.50-	3190	.842	----	1	UNCH	317.50B	174.75A		
2660	----	----	170.25A	----	180.10-	3170	.836	----	10	UNCH	312.75B	50.00A		
2665	----	----	*166.00A	----	175.70-	3150	.830	----	98	UNCH	308.00B	166.00A		
2670	----	----	161.75A	----	171.40-	3120	.824	----	209	UNCH	303.25B	47.00A		
2675	----	----	157.75A	----	167.10-	3100	.818	----	472 +	206		298.50B	45.50A	
2680	----	----	153.50A	----	162.70-	3080	.811	----	238	UNCH	293.75B	44.00A		
2685	160.50	----	*149.25A	----	158.50-	3050	.804	----	2 +	1		289.00B	149.25A	
2690	----	----	145.00A	----	154.20-	3030	.798	----	54	UNCH	284.25B	41.25A		
2695	----	----	*141.00A	----	150.00-	3000	.790	----	5	UNCH	279.50B	141.00A		
2700	148.25	149.00B	137.00A	----	145.90-	2970	.783	----	2	196 +	2		274.75B	38.75A
2705	----	----	*132.75A	----	141.70-	2940	.775	----	6	UNCH	270.00B	132.75A		
2710	----	----	128.75A	----	137.60-	2910	.767	----	255 -	1		265.50B	36.00A	
2715	----	----	*124.75A	----	133.60-	2880	.759	----	7	UNCH	260.75B	124.75A		
2720	130.25	132.50B	120.75A	----	129.50-	2850	.750	----	2	135 -	1		256.00B	33.75A
2725	123.00	128.00B	117.00A	----	125.50-	2820	.741	----	3	145 +	1		251.25B	32.50A
2730	122.25	125.00B	113.00A	----	121.60-	2780	.732	----	5	287 +	3		246.75B	31.50A
2735	119.25	123.50B	*109.25A	----	117.70-	2740	.723	----	4	8 +	2		242.00B	109.25A
2740	114.25	117.00B	105.50A	----	113.80-	2700	.713	----	5	35 +	6		237.25B	29.25A
2745	111.50	115.50B	*101.75A	----	109.90-	2670	.704	----	7	105 +	3		232.75B	101.75A
2750	110.50	111.75B	98.25A	----	106.10-	2630	.693	----	6	575 +	2		228.00B	27.25A
2755	105.50	*94.75B	*94.50A	----	102.30-	2600	.683	----	8	229 -	2		223.50B	94.50A
2760	101.00	104.00B	91.00A	----	98.60-	2550	.673	----	10	243 +	10		219.00B	25.25A
2765	92.75	*87.25B	*87.25A	----	94.90-	2510	.662	----	17	49 +	3		214.25B	87.25A
2770	91.50	94.25B	83.75A	----	91.20-	2470	.650	----	12	225 +	8		209.75B	23.50A
2775	89.00	92.75B	80.50A	----	87.60-	2430	.639	----	480	614 +	298		205.25B	22.50A
2780	87.25	89.25B	77.00A	----	84.00-	2390	.627	----	46	160 +	8		200.50B	21.75A
2785	83.50	85.50B	*73.75A	----	80.50-	2350	.615	----	33	96 -	13		196.00B	73.75A
2790	79.25	82.00B	70.50A	----	77.00-	2310	.602	----	36	149 +	16		191.50B	20.00A
2795	77.25	*67.25B	*67.25A	----	73.60-	2260	.590	----	16	164 +	8		187.00B	67.25A
2800	81.25	81.75B	64.00A	----	70.20-	2220	.576	----	11	210 +	6		182.50B	18.50A
2805	----	----	*61.00A	----	66.90-	2170	.563	----	2	72 -	4		178.25B	61.00A
2810	58.25	65.75B	57.75A	----	63.70-	2120	.549	----	378	638 +	316		173.75B	17.25A
2815	56.25	62.50B	*54.75A	----	60.50-	2070	.535	----	101	444 -	1		169.25B	54.75A
2820	67.25	67.75B	51.75A	----	57.30-	2030	.521	----	19	803 +	13		164.75B	15.75A
2825	50.00	56.25B	49.00A	----	54.30-	1970	.506	----	56	948 -	114		160.50B	15.25A
2830	53.50	55.50B	46.25A	----	51.30-	1920	.491	----	30	346 -	5		156.25B	14.50A
2835	50.25	52.50B	*43.50	----	48.30-	1870	.476	----	24	272 -	42		151.75B	43.50
2840	45.50	46.00B	40.75A	----	45.50-	1810	.460	----	35	550 -	1		147.50B	13.50A
2845	53.75	*38.00B	*38.00A	----	42.70-	1750	.444	----	44	309 +	26		143.00B	38.00A
2850	51.00	52.25B	35.50A	----	40.00-	1690	.428	----	371	1044 +	275		139.00B	12.50A
2855	----	----	*33.25A	----	37.40-	1620	.412	----	10	264 -	6		134.75B	33.25A
2860	45.00	46.25B	30.75A	----	34.90-	1550	.395	----	61	576 -	152		130.75B	11.50A
2865	----	47.50B	*28.50A	----	32.40-	1480	.379	----	27	508 -	14		126.50B	28.50A
2870	38.50	40.25B	26.25A	----	30.00-	1420	.361	----	119	977 +	24		122.50B	10.50A
2875	36.50	37.50B	24.25A	----	27.70-	1350	.344	----	451	988 +	226		118.25B	10.00A
2880	27.00	38.75B	22.25A	----	25.50-	1290	.327	----	285	787 +	229		114.25B	9.75A
2885	24.50	35.75B	*20.50A	----	23.40-	1220	.310	----	940	1183 +	665		110.25B	20.50A
2890	25.75	26.25B	18.75A	----	21.40-	1160	.293	----						



CME Group, Inc.
20 South Wacker Drive, Chicago, Illinois 60606-7499.
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PG47	BULLETIN # 99@	E-MINI S&P 500 CALL OPTIONS										Thu, May 23, 2019	PG47		
3130	----	----	*.25A	----	.25-	5	.006	----	1	519	-	64	3.35B	.25A	
3140	----	----	.25A	----	.25-	5	.005	----	5	1349	-	5	3.05B	.15	
3150	----	----	----	----	.25	UNCH	.005	----	----	1457	-	UNCH	2.80B	.30A	
3160	----	----	----	----	.20-	5	.004	----	----	482	-	35	2.60B	.30A	
3170	----	----	----	----	.20-	5	.004	----	----	1347	-	1	2.40B	.25A	
3175	----	----	----	----	.20	UNCH	.004	----	----	660	-	UNCH	2.30B	.20	
3180	----	----	----	----	.20	UNCH	.004	----	----	676	-	130	2.25B	.25A	
3190	----	----	----	----	.15-	5	.003	----	----	291	-	UNCH	2.10B	.25A	
3200	----	----	----	----	.15-	5	.003	----	----	274	-	UNCH	1.95B	.20A	
3210	----	----	----	----	.15	UNCH	.003	----	----	312	-	UNCH	1.85B	.20A	
3220	----	----	----	----	.15	UNCH	.003	----	----	128	-	UNCH	1.75B	.20A	
3225	----	----	----	----	.15	UNCH	.003	----	----	576	-	UNCH	1.70B	.15A	
3230	0.20	.20	.15A	----	.10-	5	.002	----	29	588	+	21	1.65B	.15A	
3240	----	----	----	----	.10-	5	.002	----	----	69	-	UNCH	1.55B	.10	
3250	----	.15B	----	----	.10	UNCH	.002	----	----	113	-	2	1.50B	.20A	
3260	0.15	.15	*.15	----	.10	UNCH	.002	----	200	366	+	200	1.40B	.15	
3270	0.15	.15	*.15	----	.10	UNCH	.002	----	6	75	-	UNCH	1.30B	.15	
3275	0.15	.15	*.15	----	.10	UNCH	.002	----	200	190	+	157	1.30B	.15	
3280	----	.15B	----	----	.10	UNCH	.002	----	----	113	-	29	1.25B	.15	
3290	0.15	.15	*.10A	----	.10	UNCH	.002	----	29	44	+	29	1.20B	.10A	
3300	----	----	----	----	.10	UNCH	.001	----	----	129	-	UNCH	1.15B	.15A	
3310	----	----	----	----	.05-	5	.001	----	----	15	-	UNCH	1.10B	.10A	
3320	----	----	----	----	.05-	5	.000	----	----	10	-	UNCH	1.05B	.10A	
3325	----	----	----	----	.05-	5	.000	----	----	112	-	10	.95B	.15A	
3330	----	----	----	----	.05	UNCH	.000	----	----	112	-	UNCH	1.00B	.15A	
3340	----	----	----	----	.05	UNCH	.000	----	----	122	-	UNCH	.95B	.15A	
3350	----	----	----	----	.05	UNCH	.000	----	----	227	-	UNCH	.90B	.15A	
3360	----	----	----	----	.05	UNCH	.000	----	----	5	-	UNCH	.80B	.15A	
3370	----	----	----	----	.05	UNCH	.000	----	----	646	-	UNCH	.70B	.15A	
3375	----	----	----	----	.05	UNCH	.000	----	----	40	-	UNCH	.80B	.15A	
3380	----	----	----	----	.05	UNCH	.000	----	----	657	-	UNCH	.65B	.15	
3390	----	----	----	----	.05	UNCH	.000	----	----	62	-	UNCH	.75B	.15	
3400	----	----	----	----	.05	UNCH	.000	----	----	70	-	UNCH	.60B	.15	
3410	----	----	----	----	.05	UNCH	.000	----	----	57	-	UNCH	.55B	.15	
3420	----	----	----	----	.05	UNCH	.000	----	----	41	-	UNCH	.65B	.15A	
3425	----	----	----	----	.05	UNCH	.000	----	----	394	-	UNCH	.40B	.15A	
3430	----	----	----	----	.05	UNCH	.000	----	----	52	-	UNCH	.40B	.15A	
3440	----	----	----	----	.05	UNCH	.000	----	----	60	-	UNCH	.20	.15	
3450	----	----	----	----	.05	UNCH	.000	----	----	24	-	UNCH	.55B	.15	
3460	----	----	----	----	.05	UNCH	.000	----	----	145	-	UNCH	.35B	.15	
3470	----	----	----	----	.05	UNCH	.000	----	----	26	-	UNCH	.30B	.15	
3475	----	----	----	----	.05	UNCH	.000	----	----	15	-	UNCH	.30	.15	
3525	----	----	----	----	.05	UNCH	.000	----	----	198	-	UNCH	.40	.30A	
3530	----	----	----	----	.05	UNCH	.000	----	----	199	-	UNCH	.40	.30A	
3550	----	----	----	----	.05	UNCH	.000	----	----	199	-	UNCH	.35	.30A	
4100	----	----	----	----	CAB	----	----	----	----	199	-	UNCH	.35	.30A	
TOTAL	----	----	----	----	CAB	----	----	----	----	525	-	UNCH	----	----	
JUL19	----	----	----	----	----	----	----	----	----	12266	-	86326	-	875	
1100	----	----	----	----	1716	30-	3790	.999	----	2219	-	UNCH	1609.50B	1592.75A	
1500	----	----	----	----	1318	20-	3790	.999	----	2	-	UNCH	1215.25B	1198.75A	
1700	----	----	----	----	1119	40-	3780	.997	----	5	-	UNCH	1096.50B	982.25A	
1875	----	----	----	----	945	50-	3790	.995	----	8	-	UNCH	954.75B	812.50A	
1975	----	----	----	----	846	30-	3780	.992	----	2	-	UNCH	922.75B	716.75A	
2550	----	----	----	----	279	75A	3300	.876	----	6	-	UNCH	423.00B	211.00A	
2610	----	----	----	----	227	25A	3120	.829	----	1	-	UNCH	366.25B	168.25A	
2620	----	----	----	----	218	75A	3080	.820	----	1	-	UNCH	357.00B	161.50A	
2630	----	----	----	----	210	25A	3040	.810	----	2	-	UNCH	347.50B	154.75A	
2670	----	----	----	----	177	00A	2860	.767	----	104	-	UNCH	310.50B	129.00A	
2690	----	----	----	----	161	25A	2770	.743	----	41	-	UNCH	292.00B	116.75A	
2695	----	----	----	----	*157	50A	2740	.736	----	1	-	UNCH	287.50B	157.50A	
2700	----	----	----	----	153	50A	2720	.729	----	99	-	UNCH	283.00B	110.75A	
2705	----	----	----	----	*149	75A	2690	.722	----	1	-	UNCH	278.50B	149.75A	
2710	----	----	----	----	146	00A	2660	.715	----	149	-	UNCH	273.75B	105.00A	
2715	170.00	170.00	*142	00A	150	50+	NEW	.708	----	1	+	1	263.25B	142.00A	
2720	----	----	138	25A	146	60-	2610	.701	----	7	-	UNCH	264.75B	99.50A	
2725	----	----	134	75A	142	80-	2580	.694	----	23	-	UNCH	260.25B	96.75A	
2730	----	----	131	00A	139	00-	2550	.686	----	28	-	UNCH	255.75B	94.00A	
2735	----	----	*127	25A	135	30-	2520	.678	----	31	-	UNCH	251.25B	127.25A	
2740	----	----	123	75A	131	60-	2480	.670	----	12	-	UNCH	247.00B	88.75A	
2745	----	----	*120	00A	127	90-	2460	.662	----	35	-	UNCH	242.50B	120.00A	
2750	----	----	116	50A	124	20-	2430	.654	----	11	-	UNCH	238.00B	83.50A	
2755	----	----	*113	00A	120	60-	2390	.646	----	2	-	UNCH	233.50B	113.00A	
2760	----	----	109	50A	117	00-	2360	.637	----	167	-	2	229.25B	78.50A	
2765	----	----	*106	00A	113	40-	2330	.629	----	32	-	2	224.75B	106.00A	
2770	----	----	102	75A	109	90-	2300	.620	----	59	-	2	220.50B	73.50A	
2775	----	----	99	25A	106	30-	2270	.611	----	44	-	61	216.00B	71.25A	
2780	----	----	96	00A	102	90-	2230	.601	----	257	-	UNCH	211.75B	69.00A	
2785	----	----	*92	75A	99	40-	2200	.592	----	100	-	1	207.25B	92.75A	
2790	----	----	89	50A	96	00-	2170	.583	----	29	-	UNCH	203.00B	64.25A	
2795	----	----	*86	25A	92	70-	2130	.573	----	1	-	UNCH	198.75B	86.25A	
2800	----	----	83	00A	89	40-	2090	.563	----	1	+	478	194.50B	60.00A	
2805	----	----	*80	00A	86	20-	2040	.553	----	1	+	12	190.25B	80.00A	
2810	79.25	84.75B	76	75A	83	00-	2000	.542	----	26	-	351	186.00B	55.75A	
2815	----	----	*73	75A	79	80-	1970	.532	----	19	-	58	181.75B	73.75A	
2820	76.25	80.75B	70	75A	76	70-	1920	.521	----	32	-	28	177.50B	51.75A	
2825	78.00	81.25B	67	75A	73	60-	1890	.510	----	3	-	639	173.50B	50.00A	
2830	77.25	77.25	65	00A	70	50-	1860	.499	----	89	-	54	169.50B	48.00A	
2835	67.00	69.25B	*62	00A	67	50-	1820	.488	----	1	+	21	165.25B	62.00A	
2840	----	----	59	25A	64	50-	1790	.477	----	148	-	UNCH	161.00B	44.25A	
2845	----	----	*56	50A	61	60-	1750	.465	----	40	-	UNCH	157.00B	56.50A	
2850	----	----	53	75A	58	70-	1710	.453	----	2	-	397	153.00B	40.75A	
2855	70.00	70.00	*51	25A	55	90-	1670	.441	----	1	-	53	UNCH	149.00B	51.25A
2860	63.50	64.75B	48	75A	53										



E-MINI S&P 500 CALL OPTIONS

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20 South Wacker Drive, Chicago, Illinois 60606-7499.

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PG47	BULLETIN # 99@	E-MINI S&P 500 CALL OPTIONS										Thu, May 23, 2019	PG47	
3130	----	----	*.95A	----	1.05-	15	.019	----	----	248	UNCH	8.00B	.95A	
3140	----	----	*.85A	----	.95-	15	.017	----	----	169	UNCH	7.00B	.85A	
3150	----	----	*.80A	----	.85-	10	.016	----	----	700	UNCH	6.00B	.80A	
3160	----	----	*.70A	----	.75-	10	.014	----	----	457	UNCH	5.25B	.70A	
3170	----	----	*.65A	----	.65-	15	.012	----	----	199	UNCH	4.60B	.65A	
3175	----	----	*.65A	----	.65-	10	.012	----	----	853	-	3 4.30B	.65A	
3180	0.60	.60	*.60	----	.60-	10	.011	----	10	324	UNCH	4.05B	.60	
3190	----	----	*.55A	----	.55-	10	.010	----	----	51	UNCH	3.50B	.55A	
3200	----	----	*.55A	----	.50-	10	.009	----	----	651	UNCH	3.15B	.55A	
3210	----	----	*.50A	----	.45-	10	.008	----	----	32	UNCH	2.95B	.50A	
3220	----	----	----	----	.40-	10	.007	----	----	622	UNCH	2.70B	.50A	
3225	----	----	.45A	----	.40-	10	.007	----	----	24	UNCH	2.65B	.45A	
3230	----	----	.45A	----	.40-	10	.007	----	----	64	-	15 2.55B	.45A	
3240	----	----	----	----	.35-	10	.006	----	----	159	-	20 2.40B	.40A	
3250	----	----	.40A	----	.35-	10	.006	----	----	191	UNCH	2.25B	.40A	
3260	----	----	----	----	.35-	5	.006	----	----	69	-	77 2.15B	.35A	
3270	----	----	.35A	----	.30-	10	.005	----	----	246	-	3 2.00B	.35A	
3275	----	----	.35A	----	.30-	10	.005	----	----	70	-	2 1.95B	.35A	
3280	----	----	.35A	----	.30-	10	.005	----	----	440	-	1 1.90B	.30A	
3290	----	----	.30A	----	.30-	5	.005	----	----	276	UNCH	1.80B	.30A	
3300	----	----	.30A	----	.25-	10	.004	----	----	485	UNCH	1.70B	.30A	
3310	----	----	.30A	----	.25-	10	.004	----	----	89	UNCH	1.65B	.30A	
3320	----	----	.30A	----	.25-	10	.004	----	----	18	UNCH	1.55B	.30A	
3325	----	----	.30A	----	.25-	10	.004	----	----	48	UNCH	1.50B	.30A	
3330	----	----	.30A	----	.20-	15	.003	----	----	97	UNCH	1.45B	.30A	
3340	----	----	.25A	----	.20-	15	.003	----	----	482	UNCH	1.40B	.25A	
3350	----	----	.25A	----	.20-	10	.003	----	----	5	UNCH	1.35B	.25A	
3360	----	----	.25A	----	.15-	15	.002	----	----	13	UNCH	1.10B	.25A	
3370	----	----	*.25A	----	.15-	15	.002	----	----	54	UNCH	1.05B	.25A	
3375	----	----	*.20A	----	.15-	15	.002	----	----	18	UNCH	1.20B	.20A	
3380	----	----	*.20A	----	.15-	15	.002	----	----	71	UNCH	1.00B	.20A	
3390	----	----	.20A	----	.15-	10	.002	----	----	23	UNCH	.95B	.20A	
3400	----	----	.20A	----	.10-	15	.001	----	----	164	UNCH	.90B	.20A	
3425	----	----	----	----	.10-	10	.001	----	----	251	UNCH	.95B	.15	
3430	----	----	*.15A	----	.10-	10	.001	----	----	10	UNCH	.50	.15A	
3440	----	----	*.15A	----	.10-	10	.001	----	----	1	UNCH	.60B	.15A	
3450	----	----	----	----	.10-	5	.001	----	----	10	UNCH	.75B	.15	
3460	----	----	----	----	.05-	10	.000	----	----	10	UNCH	.80B	.15	
3480	----	----	----	----	.05-	5	.000	----	----	25	UNCH	.60	.15	
3490	----	----	----	----	.05-	5	.000	----	----	268	UNCH	.20B	.15	
3500	----	----	----	----	.05	UNCH	.000	----	----	381	UNCH	.20	.15	
3510	----	----	----	----	.05	UNCH	.000	----	----	15	UNCH	.20B	.15A	
3525	----	----	----	----	.05	UNCH	.000	----	----	15	UNCH	.50B	.15	
3530	----	----	----	----	.05	UNCH	.000	----	----	35	UNCH	.15	.15	
3540	----	----	----	----	.05	UNCH	.000	----	----	30	-	1 .25	.15	
3550	----	----	----	----	.05	UNCH	.000	----	----	36	UNCH	.20B	.10	
3575	----	----	----	----	.05+	5	.000	----	----	101	UNCH	.15	.15	
3600	----	----	----	----	CAB	----	.000	----	----	30	UNCH	.15	.15A	
3650	----	----	----	----	CAB	----	.000	----	----	250	UNCH	.25B	.25	
3700	----	----	----	----	CAB	----	.000	----	----	15	UNCH	.20	.10A	
3725	----	----	----	----	CAB	----	.000	----	----	27	UNCH	.25	.20A	
3750	----	----	----	----	CAB	----	.000	----	----	14	UNCH	.25	.20A	
3775	----	----	----	----	CAB	----	----	----	----	12	UNCH	.20	.10A	
3800	----	----	----	----	CAB	----	----	----	----	2	UNCH	----	.10A	
3850	----	----	----	----	CAB	----	----	----	----	1	UNCH	----	.10A	
3875	----	----	----	----	CAB	----	----	----	----	12	UNCH	.15	.15A	
4100	----	----	----	----	CAB	----	----	----	----	2219	UNCH	----	----	
4275	----	----	----	----	CAB	----	----	----	----	1	UNCH	.15	.15	
4300	----	----	----	----	CAB	----	----	----	----	11	UNCH	.15	.15	
4325	----	----	----	----	CAB	----	----	----	----	22	UNCH	.15	.10A	
4350	----	----	----	----	CAB	----	----	----	----	281	UNCH	.15	.10A	
4375	----	----	----	----	CAB	----	----	----	----	292	UNCH	.15	.10A	
4400	----	----	----	----	CAB	----	----	----	----	53	UNCH	.15	.05	
4425	----	----	----	----	CAB	----	----	----	----	61	UNCH	.15	.05	
TOTAL									5402	37694 +	2211			
Aug19	----	----	----	----	1713.00-	3790	.999	----	----	404	-	45	----	1711.25A
1100	----	----	----	----	1018.70-	3780	.993	----	----	11	UNCH	1094.00B	926.25A	
1800	----	----	----	----	959.40-	3770	.991	----	----	2	UNCH	1035.00B	868.25A	
1860	----	----	----	----	919.90-	3770	.990	----	----	6	UNCH	1045.75B	829.25A	
1900	----	----	----	----	870.50-	3760	.988	----	----	5	UNCH	996.50B	781.25A	
1950	----	----	828.75A	----	821.20-	3760	.985	----	----	6	UNCH	950.25B	733.50A	
2000	----	----	779.50A	----	772.10-	3740	.982	----	----	2	UNCH	901.25B	686.25A	
2050	----	----	750.00A	----	742.70-	3730	.980	----	----	1	UNCH	871.75B	658.00A	
2080	----	----	614.00A	----	625.70-	3670	.966	----	----	2	UNCH	763.75B	546.25A	
2200	----	----	565.75A	----	577.40-	3630	.958	----	----	2	UNCH	715.00B	500.50A	
2250	----	----	470.75A	----	482.00-	3530	.934	----	----	1	UNCH	618.00B	411.50A	
2350	----	----	333.25A	----	343.50-	3260	.872	----	----	6	UNCH	475.00B	284.75A	
2500	----	----	315.50A	----	325.60-	3210	.860	----	----	1	UNCH	456.25B	268.50A	
2520	----	----	289.25A	----	299.20-	3130	.841	----	----	1	UNCH	428.00B	245.00A	
2550	----	----	267.75A	----	277.40-	3050	.823	----	----	2	UNCH	405.00B	226.00A	
2575	----	----	255.25A	----	264.60-	3000	.812	----	----	2	UNCH	391.00B	214.75A	
2590	----	----	246.75A	----	256.10-	2970	.804	----	----	3	UNCH	381.75B	207.25A	
2600	----	----	238.50A	----	247.70-	2930	.795	----	----	2	UNCH	372.50B	200.00A	
2610	----	----	230.50A	----	239.40-	2890	.786	----	----	1	UNCH	363.50B	192.75A	
2620	----	----	167.00A	----	175.50-	2550	.702	----	----	15	UNCH	291.50B	137.50A	
2700	----	----	152.25A	----	160.30-	2460	.677	----	----	10	-	1 273.75B	124.75A	
2720	----	----	148.50A	----	156.60-	2430	.670	----	----	10	UNCH	269.50B	121.75A	
2725	----	----	145.00A	----	152.90-	2400	.663	----	----	1	UNCH	265.00B	118.50A	
2730	----	----	137.75A	----	145.70-	2330	.650	----	----	10	UNCH	256.25B	112.50A	
2740	----	----	130.75A	----	138.50-	2280	.635	----	----	552	UNCH	247.75B	106.50A	
2750	----	----	*127.50A	----	135.00-	2240	.628	----	----	2	UNCH	243.50B	127.50A	
2760	----	----	124.00A	----	131.50-	2210	.621	----	----	6	UNCH	239.25B	100.75A	
2770	----	----	117.25A	----	124.50-	2150	.606	----	----	1	UNCH	230.75B	95.00A	
2775	----	----	113.75A	----	121.10-	2120	.598	----	513	597 +	487	226.50B	92.25A	
2780	----	----	110.50A	----	117.70-	2090	.590	----	----	9	UNCH	222.25B	89.50A	
2785	----	----	*107.25A	----	114.30-	2060	.582	----	----	1	UNCH	218.00B	107.25A	
2790	----	----	104.00A	----	111.00-	2030	.574	----	----	41	UNCH	213.75B	84.00A	
2795	----	----	*100.75A	----	107.70-	2000	.566	----	----	2	UNCH	209.75B	100.75A	
2800	----	----	97.75A	----	104.40-	1970	.557	----	----	208	UNCH	205.75B	78.75A	
2805	----	----	*94.50A	----	101.10-	1950	.549	----	----	1	UNCH	201.50B	94.50A	
2810	----	----	91.50A	----	97.90-	1910	.540	----	----	14	UNCH	197.50B	73.50A	
2815	----	----	*88.25A	----	94.70-	1880	.531	----	----	7	UNCH	193.25B	88.25A	
2820	----	----	85.25A	----	91.50-	1860	.522	----	----	33	UNCH	189.25B	68.75A	
2825	----	----	82.25A	----	88.40-	1830	.513	----	----	170	-	10 185.25B	66.25A	
2830	90.50	92.50B	79.50A	----	85.30-	1800	.504	----	1	154	UNCH	181.25B	64.00A	
2840	----	----	73.75A	----	79.30-	1730	.485	----	----	9	UNCH	173.25B	59.25A	
2850	----	90.25B	68.00A	----	73.40-	1670	.466	----	----	147	-	4 165.25B	55.00A	
2860	71.00	74.00B	62.75A	----	67.80-	1590	.446	----	1	52 +	1	157.50B	50.50A	
2865	----	80.75B	*60.00A	----	65.10-	1550	.436	----	----	51	UNCH	153.50B	60.00A	
2870	----	----	57.50A	----	62.40-	1510	.426	----	----	21	UNCH	149.75B	46.50A	
2875	----	----	55.00A	----	59.80-	1470	.416	----	1026	1273 +	642	145.75B	44.50A	
2880	----	----	52.50A	----	57.30-	1420	.406	----	----	153	-	4 142.00B	42.75A	
2885	55.25	68.75B	*											



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FINAL

PG47	BULLETIN # 99@	E-MINI S&P 500 CALL OPTIONS										Thu, May 23, 2019	PG47	
3045	----	----	*7.25A	----	7.60-	240	.099	----	----	22	UNCH	40.00B	7.25A	
3050	----	----	*6.75A	----	7.10-	220	.094	----	----	575	-	8	37.75B	6.75A
3055	----	----	*6.25A	----	6.70-	190	.089	----	----	158	UNCH	35.75B	6.25A	
3060	6.50	6.50	*5.75A	----	6.30-	170	.085	----	1	154	UNCH	33.75B	5.75A	
3065	----	----	*5.50A	----	5.90-	160	.080	----	----	64	UNCH	32.00B	5.50A	
3070	----	----	*5.25A	----	5.50-	140	.075	----	----	56	UNCH	30.25B	5.25A	
3075	----	----	*4.75A	----	5.10-	130	.071	----	----	368	UNCH	28.50B	4.75A	
3080	4.70	4.90B	*4.45A	----	4.80-	120	.067	----	1	177	UNCH	26.75B	4.45A	
3085	----	----	*4.20A	----	4.50-	110	.064	----	----	267	UNCH	25.25B	4.20A	
3090	4.35	4.35	*3.95A	----	4.25-	95	.060	----	1	186	UNCH	23.75B	3.95A	
3095	----	----	*3.70A	----	4.00-	90	.057	----	----	45	UNCH	22.25B	3.70A	
3100	3.65	3.85	*3.50A	----	3.75-	80	.054	----	2	402	UNCH	21.00B	3.50A	
3110	----	----	*3.10A	----	3.30-	70	.048	----	----	665	-	22	18.50B	3.10A
3120	----	----	*2.75A	----	2.95-	60	.044	----	----	37	UNCH	16.25B	2.75A	
3125	2.80	2.85B	*2.60A	----	2.80-	55	.042	----	3	124	+	2	15.25B	2.60A
3130	----	----	*2.45A	----	2.65-	50	.039	----	----	139	UNCH	14.25B	2.45A	
3140	----	----	*2.20A	----	2.35-	45	.035	----	----	235	UNCH	12.75B	2.20A	
3150	----	----	*2.00A	----	2.10-	40	.032	----	130	1363	-	26	11.25B	2.00A
3160	----	----	*1.75A	----	1.90-	30	.029	----	----	64	UNCH	9.75B	1.75A	
3170	----	----	*1.60A	----	1.70-	30	.026	----	----	103	UNCH	8.75B	1.60A	
3175	----	----	*1.55A	----	1.60-	30	.025	----	----	88	UNCH	8.25B	1.55A	
3180	----	----	*1.50A	----	1.55-	25	.024	----	----	80	UNCH	7.75B	1.50A	
3190	1.40	1.40	*1.35A	----	1.40-	20	.022	----	19	36	-	19	6.75B	1.35A
3200	----	----	*1.25A	----	1.25-	20	.019	----	30	101	-	20	6.00	1.25A
3210	----	----	*1.15A	----	1.15-	15	.018	----	----	64	UNCH	5.25	1.15A	
3220	----	----	*1.05A	----	1.05-	15	.016	----	----	46	UNCH	4.95	1.05A	
3225	----	----	*1.00A	----	1.00-	15	.015	----	----	72	UNCH	4.60B	1.00A	
3230	----	----	*.95A	----	.95-	15	.015	----	----	132	UNCH	4.35B	.95A	
3240	----	----	*.90A	----	.90-	10	.014	----	----	93	-	10	3.90B	.90A
3250	----	----	*.80A	----	.85-	10	.013	----	----	255	UNCH	3.55B	.80A	
3260	----	----	*.75A	----	.75-	10	.012	----	----	61	-	1	3.20B	.75A
3270	----	----	*.70A	----	.70-	10	.011	----	----	118	UNCH	2.90B	.70A	
3275	----	----	*.70A	----	.70-	10	.011	----	----	13	UNCH	2.75B	.70A	
3280	----	----	*.65A	----	.70-	5	.010	----	----	5	UNCH	2.65B	.65A	
3290	----	----	*.65A	----	.65-	5	.010	----	----	48	UNCH	2.40B	.65A	
3300	0.55	.55	*.55	----	.60-	5	.009	----	1	34	UNCH	2.20B	.55	
3310	----	----	*.55A	----	.55-	5	.008	----	----	489	UNCH	2.05B	.55A	
3320	----	----	----	----	.50-	5	.007	----	----	103	UNCH	1.95B	.65A	
3325	----	----	*.50A	----	.50-	5	.007	----	----	321	UNCH	1.85B	.50A	
3330	----	----	----	----	.50	UNCH	.007	----	----	1	UNCH	1.80B	.60A	
3340	----	----	----	----	.45	5	.007	----	----	23	UNCH	1.75B	.55A	
3350	----	----	----	----	.45	UNCH	.006	----	----	20	UNCH	1.65B	.55A	
3375	----	----	----	----	.35	5	.005	----	----	10	UNCH	1.50	.45A	
3390	----	----	----	----	.35	UNCH	.005	----	----	17	UNCH	1.20B	.45A	
3400	----	----	----	----	.30-	5	.004	----	----	7	UNCH	1.15B	.40A	
3410	----	----	----	----	.30	UNCH	.004	----	----	2	UNCH	1.10B	.40A	
3480	----	----	----	----	.15	10	.002	----	----	481	UNCH	.80B	.30A	
3500	----	----	----	----	.15	5	.002	----	----	2	UNCH	.60B	.25A	
3525	----	----	----	----	.10	10	.001	----	----	299	UNCH	.50B	.30	
3540	----	----	----	----	.10	10	.001	----	----	210	UNCH	.25	.25	
4100	----	----	----	----	CAB	----	----	----	----	404	-	45	----	----
TOTAL	----	----	----	----	----	----	----	----	2280	20059	+	1160	----	----
SEP19	----	----	----	----	1415.30-	3850	.997	----	----	546	UNCH	----	1414.25A	
1400	----	----	----	----	630.20-	3670	.955	----	----	440	UNCH	769.00B	618.25A	
2200	----	----	*618.25A	----	611.10-	3650	.951	----	----	6	UNCH	749.50B	599.25A	
2220	----	----	*599.25A	----	535.50-	3560	.932	----	----	1	UNCH	672.75B	523.75A	
2300	----	----	*523.75A	----	470.30-	3470	.910	----	----	1	UNCH	606.00B	459.00A	
2370	----	----	*459.00A	----	397.40-	3330	.877	----	----	400	UNCH	530.25B	386.50A	
2450	----	----	*386.50A	----	344.20-	3200	.845	----	----	852	-	61	474.50B	333.75A
2510	----	----	*333.75A	----	301.10-	3060	.813	----	----	1	UNCH	428.50B	291.25A	
2560	----	----	*291.25A	----	259.40-	2900	.775	----	----	15	UNCH	383.00B	250.00A	
2610	----	----	*250.00A	----	251.30-	2860	.767	----	----	15	UNCH	374.25B	241.75A	
2620	----	----	*241.75A	----	243.20-	2820	.758	----	----	15	UNCH	365.50B	233.75A	
2630	----	----	*233.75A	----	235.20+	NEW	.749	----	1	1	+	1	356.50B	226.00A
2640	231.25	237.50B	*226.00A	----	227.20-	2750	.739	----	----	15	UNCH	347.50B	218.00A	
2650	----	----	*218.00A	----	219.40-	2700	.730	----	----	1	UNCH	338.75B	210.25A	
2660	----	----	*210.25A	----	203.80-	2630	.709	----	2	1	UNCH	321.25B	195.00A	
2680	207.75	209.00B	*195.00A	----	196.20-	2580	.699	----	1	2	+	1	312.50B	187.50A
2690	200.00	201.25B	*187.50A	----	188.70-	2530	.688	----	1	442	+	1	303.75B	180.00A
2700	185.00	190.75B	*180.00A	----	181.20-	2480	.677	----	----	1	UNCH	295.00B	172.75A	
2710	----	----	*172.75A	----	173.80-	2440	.665	----	4	108	+	3	286.75B	165.50A
2720	179.75	183.50B	*165.50A	----	166.50-	2390	.653	----	2	2	UNCH	278.00B	158.25A	
2730	170.25	171.00B	*158.25A	----	159.30-	2340	.641	----	19	19	+	16	269.50B	151.25A
2740	162.50	163.75B	*151.25A	----	152.20-	2290	.628	----	15	599	-	2	261.25B	144.25A
2750	153.75	156.50B	*144.25A	----	145.20-	2240	.615	----	21	103	+	17	252.75B	137.50A
2760	148.25	149.50B	*137.50A	----	138.30-	2180	.601	----	70	76	+	55	244.50B	131.00A
2770	143.50	147.00B	*131.00A	----	131.50-	2130	.588	----	35	134	-	16	236.25B	124.25A
2780	135.25	135.75B	*124.25A	----	124.80-	2070	.573	----	----	205	-	23	228.00B	117.75A
2790	----	----	*117.75A	----	118.20-	2020	.559	----	17	223	-	138	220.00B	111.50A
2800	123.00	126.50B	*111.50A	----	111.70-	1970	.543	----	2	296	-	23	212.00B	105.00
2810	105.00	113.50B	*105.00	----	105.40-	1900	.528	----	2	250	-	16	204.00B	99.00A
2820	103.00	107.00B	*99.00A	----	99.20-	1850	.512	----	30	90	-	67	196.00B	93.00A
2830	100.50	102.75B	*93.00A	----	93.20-	1780	.496	----	----	46	-	48	188.00B	87.25A
2840	----	----	*87.25A	----	87.30-	1720	.479	----	21	228	+	21	180.25B	81.50A
2850	93.25	94.25B	*81.50A	----	81.50-	1660	.462	----	6	173	-	4	172.50B	76.00A
2860	87.25	88.25B	*76.00A	----	76.00-	1590	.445	----	----	54	-	14	165.00B	70.75A
2870	----	----	*70.75A	----	70.60-	1530	.427	----	----	132	-	34	157.50B	65.50A
2880	----	----	*65.50A	----	65.40-	1460	.409	----	----	308	-	49	150.00B	60.50A
2890	----	----	*60.50A	----	60.40-	1390	.390	----	----	184	-	20	142.75B	55.75A
2900	----	----	*55.75A	----	55.60-	1320	.372	----	----	127	UNCH	135.50B	51.25A	
2910	----	----	*51.25A	----	51.00-	1240	.353	----	----	47	UNCH	128.50B	47.00A	
2920	----	----	*47.00A	----	46.60-	1170	.334	----	----	209	UNCH	121.50B	42.75A	
2930	----	----	*42.75A	----	42.40-	1100	.315	----	----	106	UNCH	114.75B	39.00A	
2940	----	----	*39.00A	----	38.50-	1030	.296	----	1	299	-	1	108.00B	35.25A
2950	----	----	*35.25A	----	34.90-	950	.278	----	----	32	UNCH	101.50B	32.00A	
2960	----	----	*32.00A	----	31.40-	880	.259	----	----	5	UNCH	95.25B	28.75A	
2970	----	----	*28.75A	----	28.20-	810	.241	----	----	122	UNCH	89.00	26.00A	
2980	----	----	*26.00A	----	25.30-	740	.224	----	----	129	UNCH	82.75B	23.25A	
2990	----	----	*23.25A	----	22.60-	670	.207	----	2	154	+	1	77.00B	20.75A
3000	22.00	23.25B	*20.75A	----	20.20-	600	.191	----	----	236	UNCH	71.25B	18.50A	
3010	----	----	*18.50A	----	18.00-	540	.175	----	42	218	-	6	66.00B	16.50A
3020	19.00	19.75B	*16.50A	----	16.00-	480	.161	----	----	518	UNCH	60.75B	14.75A	
3030	----	----	*14.75A	----	14.20-	420	.147	----	256	438	+	227	55.75B	13.25A
3040														

E-MINI S&P 500 CALL OPTIONS



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Table with columns: PG47, BULLETIN # 99@, E-MINI S&P 500 CALL OPTIONS, Thu, May 23, 2019, PG47. Contains multiple columns of option data including strike prices, bid/ask, volume, and open interest.

E-MINI S&P 500 FIXING PRICE (ESF): Sep19 2823.24

ADDITIONAL E-MINI S&P CALLS

Table with columns: STRIKE, OPEN RANGE, HIGH, LOW, CLOSING RANGE, SETT. PRICE & PT. CHGE., DELTA, EXER CISES, VOLUME TRADES CLEARED, OPEN INTEREST, --CONTRACT-- HIGH, LOW. Contains detailed call option data for various strike prices.

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PG47	BULLETIN # 99@				E-MINI S&P 500 CALL OPTIONS				Thu, May 23, 2019				PG47
3050	2.05	2.15	*1.70	----	1.95-	0.55	.038	----	1454	5074 +	1125	21.50B	1.70
3055	1.55	1.80B	*1.55	----	1.80-	0.50	.035	----	4	499 +	4	20.00B	1.55
3060	----	----	*1.45A	----	1.65-	0.45	.033	----	3	967 +	2	18.50B	1.45A
3065	----	----	*1.35A	----	1.55-	0.40	.031	----	----	859	UNCH	17.00B	1.35A
3070	----	----	*1.25A	----	1.45-	0.35	.029	----	----	1267	UNCH	15.75B	1.25A
3075	1.20	1.30B	*1.15A	----	1.35-	0.30	.027	----	16	1498	UNCH	14.50B	1.15A
3080	----	----	*1.10A	----	1.25-	0.30	.025	----	6	1438 +	9	13.50B	1.10A
3085	1.05	1.10B	*1.00	----	1.20-	0.20	.024	----	46	815 -	20	12.50B	1.00
3090	1.00	1.05B	*.95	----	1.10-	0.20	.022	----	19	1691 +	18	11.50B	.95
3095	.95	1.00B	*.90	----	1.05-	0.20	.021	----	5	781 -	1	10.50B	.90
3100	1.00	1.00	*.85	----	1.00-	0.15	.020	----	60	1860 -	152	9.75B	.85
3110	----	----	*.75A	----	.90-	0.10	.018	----	----	876 -	44	8.25B	.75A
3120	.70	.70	*.70	----	.80-	0.10	.016	----	1	3577 -	318	7.00B	.70
3125	.75	.75	*.65	----	.75-	0.10	.015	----	197	2320 -	335	6.50B	.65
3130	.70	.70	*.65A	----	.70-	0.10	.014	----	16	1352 +	16	6.00B	.65A
3140	.60	.60	*.60	----	.65-	0.10	.013	----	1	2824	UNCH	5.25B	.60
3150	----	----	*.55A	----	.55-	0.10	.011	----	49	1705 -	390	4.50B	.55
3160	----	----	*.50A	----	.50-	0.10	.010	----	----	513	UNCH	3.95B	.50A
3170	----	----	.50A	----	.45-	0.10	.009	----	----	1361	UNCH	3.35	.50A
3175	.45	.45	.45	----	.45-	0.10	.009	----	432	3736 -	117	3.15	.45A
3180	----	----	.45A	----	.45-	0.10	.009	----	----	491 -	51	2.95B	.45A
3190	----	----	.45A	----	.40-	0.10	.008	----	----	570 -	1	2.65B	.40A
3200	.45	.45	.40	----	.35-	0.10	.007	----	11	2237 -	204	2.45B	.40A
3210	----	----	.40A	----	.35-	0.10	.006	----	----	639	UNCH	2.30B	.35A
3220	----	----	.35A	----	.35-	0.05	.006	----	----	269	UNCH	2.15B	.35A
3225	----	----	.35A	----	.30-	0.10	.005	----	----	703	UNCH	2.05B	.35A
3230	----	----	.35A	----	.30-	0.10	.005	----	----	441	UNCH	2.00B	.30A
3240	----	----	.35A	----	.30-	0.10	.005	----	----	528 -	3	1.90B	.30A
3250	----	----	.30A	----	.30-	0.05	.005	----	----	1123	UNCH	1.80B	.30
3260	----	----	.30A	----	.25-	0.10	.004	----	----	437	UNCH	1.65B	.25A
3270	----	----	----	----	.25-	0.05	.004	----	----	38	UNCH	1.60B	.25A
3275	----	----	.25A	----	.25-	0.05	.004	----	----	247	UNCH	1.55B	.25A
3280	----	----	.25A	----	.25-	0.05	.004	----	----	563 -	494	1.50B	.25A
3290	----	----	.25A	----	.25-	0.05	.004	----	----	578	UNCH	1.50	.25A
3300	----	----	----	----	.25	UNCH	.004	----	3	622	UNCH	1.35B	.20A
3310	----	----	.20A	----	.20-	0.05	.003	----	----	31	UNCH	1.20B	.20A
3320	.20	.20	.20	----	.20-	0.05	.003	----	3	62 +	3	1.15B	.20A
3325	.20	.20	.20	----	.20	UNCH	.003	----	1	18 +	1	1.10B	.20A
3330	.20	.20	.20	----	.20	UNCH	.003	----	6	17 +	6	1.10B	.20A
3340	.20	.20	.20	----	.20	UNCH	.003	----	1	38 +	1	1.05B	.20A
3350	.20	.20	.20	----	.15-	0.05	.002	----	144	252 +	144	1.05	.20A
3360	.20	.20	*.15A	----	.15	UNCH	.002	----	143	524 +	143	.95B	.15A
3370	.20	.20	*.15A	----	.15	UNCH	.002	----	143	211 +	143	.60B	.15A
3375	----	----	----	----	.15	UNCH	.002	----	----	125	UNCH	.85B	.15A
3380	----	----	----	----	.15	UNCH	.002	----	----	408	UNCH	.85B	.15A
3390	----	----	----	----	.15	UNCH	.002	----	----	707	UNCH	.80B	.15A
3400	----	----	----	----	.15	UNCH	.002	----	----	223	UNCH	.50B	.15A
3410	----	----	----	----	.10	UNCH	.001	----	----	78	UNCH	.75B	.15A
3420	----	----	----	----	.10	UNCH	.001	----	----	130	UNCH	.70	.15A
3425	----	----	----	----	.10	UNCH	.001	----	----	58	UNCH	.70B	.15A
3430	----	----	----	----	.10	UNCH	.001	----	----	144	UNCH	.35B	.15A
3440	----	----	----	----	.10	UNCH	.001	----	----	238	UNCH	.65	.15A
3450	----	----	----	----	.10	UNCH	.001	----	----	32	UNCH	.20	.15A
3460	----	----	----	----	.10	UNCH	.001	----	----	1	UNCH	.20	.15A
3470	----	----	----	----	.10	UNCH	.001	----	----	7	UNCH	.20	.20
3480	----	----	----	----	.10	UNCH	.001	----	----	11	UNCH	.50	.15
3490	----	----	----	----	.10+	0.05	.001	----	----	15	UNCH	.15	.15
3500	----	----	----	----	.05	UNCH	.000	----	----	3	UNCH	.15B	.20A
3510	----	----	----	----	.05	UNCH	.000	----	----	30	UNCH	.15	.15
3520	----	----	----	----	.05	UNCH	.000	----	----	15	UNCH	.15	.15
3525	----	----	----	----	.05	UNCH	.000	----	----	15	UNCH	.15	.15
3530	----	----	----	----	.05	UNCH	.000	----	----	80	UNCH	.15	.15
3540	----	----	----	----	.05	UNCH	.000	----	----	40	UNCH	.15	.10A
3550	----	----	----	----	.05	UNCH	.000	----	----	35	UNCH	.15	.15A
3650	----	----	----	----	.05	UNCH	.000	----	----	25	UNCH	.25	.10A
4100	----	----	----	----	CAB	----	----	----	----	975	UNCH	----	----
TOTAL									15850	116762 +	868		
AUG19	EOW3	MINI	S&P	C									
1500	----	----	----	----	1317.00-	37.90	.998	----	----	576	UNCH	----	1315.75A
2000	----	----	----	----	821.40-	37.70	.988	----	----	1	UNCH	947.75B	807.00A
2100	----	----	730.25A	----	722.80-	37.50	.982	----	----	60	UNCH	852.25B	709.50A
2470	----	----	*356.50A	----	367.30-	33.90	.901	----	----	85	UNCH	501.50B	356.50A
2600	----	----	*241.75A	----	251.50-	30.30	.817	----	----	2	UNCH	379.00B	241.75A
2610	----	----	*233.25A	----	242.90-	30.10	.808	----	----	1	UNCH	369.75B	233.25A
2620	----	----	*225.00A	----	234.50-	29.60	.799	----	----	1	UNCH	360.50B	225.00A
2630	----	----	*216.75A	----	226.10-	29.30	.790	----	----	2	UNCH	351.25B	216.75A
2640	----	----	*208.50A	----	217.70-	29.00	.781	----	----	1	UNCH	342.00B	208.50A
2650	----	----	*200.00A	----	209.50-	28.50	.770	----	----	5	UNCH	332.75B	200.00A
2660	197.50	203.50B	*192.25A	----	201.30-	28.20	.760	----	1	2 +	1	323.75B	192.25A
2670	192.75	198.75B	*184.25A	----	193.20	NEW	.749	----	7	7 +	7	314.50B	184.25A
2680	185.00	191.00B	*176.50A	----	185.30-	27.20	.737	----	6	9 +	5	315.50B	176.50A
2690	178.50	183.00B	*168.75A	----	177.40-	26.80	.725	----	11	15 +	9	296.50B	168.75A
2700	170.75	175.00B	*161.00A	----	169.60-	26.30	.713	----	204	214 +	204	287.50B	161.00A
2710	161.50	167.25B	*153.50A	----	161.90-	25.80	.700	----	2	20 +	2	278.50B	153.50A
2720	155.50	159.50B	*146.25A	----	154.30-	25.30	.686	----	7	15 +	2	269.75B	146.25A
2730	148.75	151.75B	*138.75	----	146.90-	24.60	.672	----	4	5 +	2	261.00B	138.75
2740	139.50	144.50B	*131.75A	----	139.50-	24.10	.658	----	9	19 +	7	252.25B	131.75A
2750	132.25	137.00B	*124.50A	----	132.30-	23.40	.643	----	67	69 +	60	243.50B	124.50A
2760	125.75	129.75B	*117.50A	----	125.20-	22.80	.627	----	20	19 +	9	234.75B	117.50A
2770	118.25	122.75B	*111.00A	----	118.20-	22.20	.611	----	19	13 +	5	226.00B	111.00A
2780	112.00	115.75B	*104.25A	----	111.40-	21.40	.594	----	94	94 +	86	217.50B	104.25A
2790	111.00	111.25B	*97.75A	----	104.70-	20.70	.577	----	18	388 -	1	209.25B	97.75A
2800	99.25	99.75B	*91.50A	----	98.10-	20.10	.559	----	171	225 +	157	200.75B	91.50A
2810	91.00	95.25B	*85.25A	----	91.70-	19.30	.541	----	19	206 +	15	192.50B	85.25A
2820	86.00	88.75B	*79.00A	----	85.40-	18.60	.522	----	67	127 +	67	184.25B	79.00A
2830	83.00	86.25B	*73.25A	----	79.20-	18.00	.502	----	8	34 +	2	176.00B	73.25A
2840	79.00	80.00B	*67.50A	----	73.20-	17.30	.482	----	93	136 +	42	168.00B	67.50A
2850	75.00	75.50B	*62.00A	----	67.40-	16.50	.461	----	128	764 +	29	159.75B	62.00A
2860	----	----	*56.75A	----	61.70-	15.90	.440	----	----	580 -	15	152.00B	56.75A
2870	64.25	64.50B	*51.50A	----	56.30-	15.10	.418	----	2	386 -	4	144.00B	51.50A
2880	52.25	53.75B	*46.75A	----	51.10-	14.40	.396	----	10	226 +	10	136.25B	46.75A
2890	50.50	51.50B	*42.25A	----	46.20-	13.50	.373	----	48	483 -	17	128.75B	42.25A
2900	48.50	48.50	*37.75A	----	41.50-	12.70	.350	----	36	349 -	120	121.25B	37.75A
2910	38.25	39.00B	*33.75A	----	37.10-	11.80	.327	----	8	515 +	6	113.75B	33.75A
2920	33.75	34.25B	*30.00A	----	33.00-	10.90	.304	----	34	342 -	17	106.75B	30.00A
2930	29.75	30.75B	*26.50A	----	29.20-								

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PG47 BULLETIN # 99@ E-MINI S&P 500 CALL OPTIONS Thu, May 23, 2019 PG47

Table with columns for date (OCT19), price, bid, ask, volume, and other market data for E-MINI S&P 500 CALL OPTIONS.

Table with columns for date (MAY19), price, bid, ask, volume, and other market data for MDW MID E-MINI S&P 500 CALL OPTIONS.

Table with columns for date (JUN19), price, bid, ask, volume, and other market data for MDW MTD E-MINI S&P 500 CALL OPTIONS.

Table with columns for date (MAY19), price, bid, ask, volume, and other market data for MMW MID E-MINI S&P 500 CALL OPTIONS.

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Table with columns: PG47, BULLETIN # 99@, E-MINI S&P 500 CALL OPTIONS, Thu, May 23, 2019, PG47. Contains multiple rows of market data including prices, volumes, and option types.

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PG47 BULLETIN # 99@ E-MINI S&P 500 CALL OPTIONS Thu, May 23, 2019 PG47

Table with columns for date (2070-1775), price, quantity, and various option details. Includes sub-totals for JUN19 and JUL19.

Table with columns for date (1500-1780), price, quantity, and various option details. Includes sub-totals for JUL19 and AUG19.

Table with columns for date (1530-1750), price, quantity, and various option details. Includes sub-totals for AUG19.

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PG47	BULLETIN # 99@	E-MINI S&P 500 CALL OPTIONS								Thu, May 23, 2019				PG47
1760	----	----	*.80A	----	.75-	0.20	.018	----	----	2	UNCH	7.20B	.80A	
1800	----	----	*.55A	----	.50-	0.10	.012	----	----	2	UNCH	3.25B	.55A	
1810	----	----	*.50A	----	.45-	0.10	.010	----	----	2	UNCH	2.65B	.50A	
TOTAL									10	304				