



CME Group, Inc.
20 South Wacker Drive, Chicago, Illinois 60606-7499.
Customer Service: (312) 930-1000



PRELIMINARY

PG48 BULLETIN #231@

E-MINI S&P 500 PUT OPTIONS

Mon, Nov 30, 2020 PG48

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.

WK EW-W1 E-MINI S&P PUTS

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. Rows include contract details for various strike prices from 1700 to 3175.

THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS
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Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Contains multiple rows of market data for various strike prices and option types.

WK EW-W2 E-MINI S&P PUTS

Summary table for E-MINI S&P PUTS with columns: STRIKE, OPEN, RANGE, HIGH, LOW, CLOSING, RANGE, SETT. PRICE & PT. CHGE., DELTA, EXER CISES, VOLUME TRADES CLEARED, OPEN INTEREST, --CONTRACT-- HIGH, LOW.



PRELIMINARY

PG48 BULLETIN #231@ E-MINI S&P 500 PUT OPTIONS Mon, Nov 30, 2020 PG48

Table with columns for price, bid, ask, volume, and other market data for E-MINI S&P 500 PUT OPTIONS. Rows range from 2630 to 3475.

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WK EW-W4 E-MINI S&P PUTS

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 market data for E-MINI S&P PUTS.

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E-MINI S&P 500 PUT OPTIONS

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Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Rows list contract specifications (e.g., 3025, 3030, 3045) and their corresponding market data (bid, ask, volume, etc.).

E-MINI S&P PUTS

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PG48 BULLETIN #231@

E-MINI S&P 500 PUT OPTIONS

Mon, Nov 30, 2020 PG48

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. Rows list various S&P 500 put options from 100 to 3085.

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PG48	BULLETIN #231@	E-MINI S&P 500 PUT OPTIONS							Mon, Nov 30, 2020	PG48			
3755	159.25	170.25B	127.25A	----	140.70+	840	.860	----	2	7 +	2	218.25B	125.50A
3760	----	174.50B	131.00A	----	144.90+	860	.870	----	8	UNCH	8	552.25B	129.25A
3765	162.00	179.00B	135.00A	----	149.30+	NEW	.879	----	1	1 +	1	227.25B	133.00A
3770	149.25	183.50B	139.00A	----	153.60+	900	.888	----	7	15 +	1	574.00	137.00A
3775	174.00	187.50B	143.25A	----	158.10+	930	.895	----	2	3 +	2	236.50B	141.00A
3780	----	192.00B	147.50A	----	162.60+	950	.902	----	3	UNCH	3	571.50B	144.75A
3785	----	196.50B	151.75A	----	167.10+	970	.910	----	1	UNCH	1	242.00B	149.00A
3790	----	201.25B	156.00A	----	171.70+	990	.916	----	2	UNCH	2	581.25B	153.00A
3795	176.50	205.75B	160.25A	----	176.30+	NEW	.922	----	1	1 +	1	251.50B	157.00A
3800	----	210.50B	164.75A	----	181.00+	1040	.927	----	50	UNCH	50	1597.00B	161.25A
3810	----	220.00B	173.50A	----	190.40+	1070	.937	----	4	UNCH	4	600.25B	169.75A
3820	----	229.50B	182.50A	----	199.90+	1100	.945	----	7	UNCH	7	609.75B	178.50A
3830	----	239.25B	191.75A	----	209.40+	1120	.952	----	8	UNCH	8	619.50B	187.25A
3840	----	248.75B	201.00A	----	219.10+	1150	.958	----	8	UNCH	8	629.00B	196.25A
3850	----	258.50B	210.50A	----	228.80+	1170	.963	----	1	26	UNCH	1646.75B	205.25A
3860	----	267.25B	220.00A	----	238.50+	1190	.968	----	4	UNCH	4	648.25B	214.50A
3870	----	277.00B	229.50A	----	248.30+	1200	.971	----	4	UNCH	4	658.00B	223.75A
3880	----	286.75B	239.25A	----	258.10+	1210	.975	----	2	UNCH	2	667.75B	233.25A
3890	----	296.50B	248.75A	----	268.00+	1230	.978	----	1	UNCH	1	677.75B	242.75A
3900	----	306.50B	258.50A	----	277.90+	1240	.980	----	8	UNCH	8	1695.75B	252.25A
3910	----	316.25B	268.25A	----	287.70+	1240	.982	----	1	UNCH	1	697.00B	262.00A
3950	----	355.75B	307.50A	----	327.40+	1280	.989	----	1	UNCH	1	1747.00B	300.75A
4000	----	405.50B	357.00A	----	377.10+	1300	.994	----	101	UNCH	101	1797.00B	346.75A
4050	----	455.25B	406.75A	----	427.00+	1320	.996	----	2	UNCH	2	1846.50B	394.75A
4100	----	505.25B	456.75A	----	477.00+	1330	.997	----	9	UNCH	9	1896.50B	442.50A
4500	----	900.75B	858.75A	----	876.80+	1330	1.000	----	4	UNCH	4	1517.00B	841.25A
TOTAL									52234	794481 +	7102		
MAR21	EMINI S&P PUT				CAB					110	UNCH	.80	.10A
100					CAB					1	UNCH	.55	.10A
200					CAB		.000			258	UNCH	.85	.10
300							.000			460	UNCH	1.80	.20
400					.10-	5	.000			2904	UNCH	2.90B	.20
500					.15-	5	.000			3672	UNCH	4.65B	.30A
600					.25-	5	.000		1	3665 +	1	8.00	.20
700	0.30	.30	.30		.35-	5	.000			786	UNCH	12.50	.35A
800					.45-	5	.000		1	7764	UNCH	24.00	.45A
900	0.50	.50	.50		.60	UNCH	.001			2055	UNCH	24.50	.55
1000					.75	UNCH	.001			2922	UNCH	25.25	.70
1100					.90-	5	.001			5384	UNCH	28.25B	.85
1200					1.10-	5	.002		1	2308	UNCH	36.75B	1.10
1300	1.10	1.10	*1.10		1.20-	5	.002			990	UNCH	42.00B	1.25A
1350					1.30-	5	.002			1495	UNCH	58.25B	1.35A
1400					1.45-	5	.003			2663	UNCH	54.50B	1.45A
1450			1.45A		1.55-	5	.003		12	849 +	12	61.75B	1.50
1500		1.65B			1.70-	5	.003			1562	UNCH	69.50B	1.70A
1550		1.80B	*1.70A		1.85-	5	.004			1298	UNCH	77.75B	1.85A
1600		1.95B	1.85A		2.00-	5	.004		10	2365 +	10	86.75B	1.95
1650	1.95	2.15B	*1.95		2.15-	10	.005			6397	UNCH	96.25B	2.15A
1700		2.35B	*2.15A		2.35-	10	.005		51	1157	UNCH	125.75B	2.35A
1750	2.60	*2.35A			2.55-	15	.006			4806	UNCH	153.50	2.55A
1800		2.80B	*2.55A		2.80-	10	.006		12	1728	UNCH	138.50	2.80A
1850	3.00	3.10B	*2.80A		3.05-	15	.007			2202	UNCH	165.75B	3.05A
1900		3.40B	*3.05A		3.35-	15	.008			1607	UNCH	154.75B	3.35A
1950		3.75B	*3.35A		3.70-	15	.009		8	4766 +	8	168.75B	3.65A
2000		4.15B	*3.65A		4.05-	20	.010		6	1318 -	2	183.25B	4.00A
2050	4.40	4.60B	*4.00A		4.40-	30	.011		103	2590 -	100	249.75	4.40A
2100	4.80	5.00B	*4.40A		4.85-	35	.013		24	892	UNCH	214.75B	4.85A
2150		5.50B	*4.85A		5.30-	40	.014		102	5816 -	102	231.25B	5.50
2200	5.50	6.25B	*5.50		5.90-	40	.016		32	2371 -	32	248.50B	6.00A
2250		6.75B	*6.00A		6.50-	50	.018		101	4137 -	93	331.00	6.50A
2300	7.50	7.75B	*6.50A		7.20-	60	.021		39	2336 -	29	286.00B	7.25A
2350	8.50	8.50	*7.25A		8.10-	60	.023		359	3257 +	52	364.75B	8.00A
2400	9.00	9.50B	*8.00A		8.40-	70	.024		70	70 -	23	58.00B	8.50A
2420	9.25	10.00B	*8.50A		8.60-	70	.025		62	463 +	58	59.25B	8.75A
2430	9.75	10.50	*8.75A		8.80-	70	.026			211	UNCH	60.50B	8.75A
2440		10.50B	*8.75A		9.00-	70	.026		60	1003 +	9	405.50	9.00A
2450	10.00	10.75B	*9.00A		9.30-	60	.027		7	179	UNCH	163.75B	9.25A
2460	10.00	11.00B	*9.25A		9.50-	60	.028		7	251 +	7	64.25B	9.50A
2470	10.25	11.25B	*9.50A		9.70-	60	.029			129	UNCH	65.75B	9.75A
2480		11.50B	*9.75A		9.90-	70	.029			145	UNCH	67.00B	9.75A
2490		11.75B	*9.75A		10.10-	70	.030		911	5867 +	380	438.75	10.00
2500	11.00	12.00	*10.00		10.30-	70	.031			92	UNCH	70.00B	10.25A
2510		12.50B	*10.25A		10.50-	80	.031			541	UNCH	71.50B	10.50A
2520		12.75B	*10.50A		10.80-	70	.032		7	454	UNCH	72.75B	10.75A
2530	11.75	13.00B	*10.75A		11.00-	80	.033			75	UNCH	74.50B	11.00A
2540		13.25B	*11.00A		11.20-	80	.034		20	2975 +	20	479.25	11.25A
2550		13.75B	*11.25A		11.50-	80	.035		260	417 +	260	77.50B	11.50A
2560	12.25	14.00B	*11.50A		11.70-	90	.035			575	UNCH	79.00B	11.75A
2570		14.25B	*11.75A		12.10-	90	.037			574	UNCH	80.75B	12.00A
2580		14.75B	*12.00A		12.40-	90	.038			690	UNCH	82.25B	12.50A
2590		15.00B	*12.50A		12.70-	100	.038		863	2920 +	151	511.25	12.75A
2600	14.50	15.50B	*12.75A		13.10-	90	.040			488	UNCH	85.75B	13.00A
2610		15.75B	*13.00A		13.40-	90	.041		152	863 +	112	87.50B	13.25
2620	15.50	16.25B	*13.25		13.70-	100	.042			945	UNCH	89.25B	13.50A
2630		16.50B	*13.50A		14.00-	100	.043			270	UNCH	91.00B	14.00A
2640		17.00B	*14.00A		14.40-	90	.044		92	1097 +	48	549.50	14.25A
2650		17.50B	*14.25A		14.70-	100	.045			81	UNCH	94.75B	14.50A
2660		17.75B	*14.50A		15.10-	90	.046		11	315 +	11	96.50B	15.00A
2670	16.75	18.25B	*15.00A		15.40-	100	.047			711	UNCH	440.50B	15.25A
2680		18.75B	*15.25A		15.80-	100	.049			486	UNCH	100.50B	15.75A
2690		19.25B	*15.75A		16.20-	100	.050		232	5283 +	57	557.25B	16.00A
2700	17.00	19.75B	*16.00A		16.60-	100	.051			860	UNCH	104.50B	16.50A
2710		20.25B	*16.50A		17.10-	90	.053		107	267 +	107	106.50B	17.00A
2720	19.00	20.75B	*17.00A		17.50-	90	.054			303	UNCH	108.50B	17.25A
2730		21.25B	*17.25A		18.00-	90	.056		4	1093 +	1	110.50B	17.75A
2740	19.50	21.75B	*17.75A		18.50-	80	.057		7	2347 +	1	479.75B	18.25A
2750	21.00	22.25B	*18.25A		19.00-	80	.059			140	UNCH	114.75B	18.50A
2760		23.00B	*18.50A		19.50-	80	.060			334	UNCH	117.00B	19.00A
2770		23.50B	*19.00A		20.00-	80	.062		18	443 +	18	119.25B	19.50A
2780	22.00	24.00B	*19.50A		20.50-	80	.064		19	326 +	19	121.50B	20.00A
2790	22.50	24.50B	*20.00A		21.00-	80	.065		195	7466 +	138	637.50B	20.50A
2800	24.00	25.25B	*20.50A		21.50-	90	.067		1	358	UNCH	126.25B	21.00A
2810	22.25	25.75B	*21.00A		22.00-	90	.069			524	UNCH	128.50B	21.50A
2820		26.50B	*21.50A		22.50-								



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3120	----	55.25B	*45.50A	----	46.60-	110	.148	----	115	UNCH	216.00B	45.50A
3130	51.25	56.50B	*46.50A	----	47.80-	110	.152	----	76	278 +	219.75B	46.50A
3140	52.00	58.00B	*47.75A	----	48.90-	110	.155	----	168	325 +	223.25B	47.75A
3150	52.00	59.25B	*49.00A	----	50.20-	100	.159	----	37	3550 +	599.50B	49.00A
3160	54.75	60.75B	*50.00A	----	51.40-	100	.163	----	45	765	230.75B	50.00A
3170	55.75	62.25B	*51.25A	----	52.70-	100	.167	----	25	500 +	234.50B	51.25A
3180	----	63.75B	*52.50A	----	54.00-	100	.172	----	1	407 +	238.25B	52.50A
3190	58.50	65.25B	*54.00A	----	55.30-	100	.176	----	107	545	242.25B	54.00A
3200	57.50	66.75B	*55.25A	----	56.70-	90	.180	----	788	5849 -	801.50B	55.25A
3210	----	68.25B	*56.50A	----	58.10-	90	.185	----	126	UNCH	250.00B	56.50A
3220	62.75	70.00B	*58.00A	----	59.50-	90	.189	----	86	274 +	254.00B	58.00A
3230	64.25	71.50B	*59.25A	----	61.00-	90	.194	----	106	357 +	258.25B	59.25A
3240	----	73.25B	*60.75A	----	62.50-	80	.199	----	311	UNCH	262.25B	60.75A
3250	67.00	75.00B	*62.25A	----	64.10-	80	.204	----	267	2728 +	625.50B	62.25A
3260	71.00	76.75B	*63.75A	----	65.70-	70	.209	----	135	463 +	270.75B	63.75A
3270	76.00	78.75B	*65.25A	----	67.30-	70	.214	----	44	300 +	275.00B	65.25A
3280	72.75	80.50B	*66.75A	----	68.90-	70	.219	----	35	346 -	279.50B	66.75A
3290	75.50	82.25B	*68.25A	----	70.60-	70	.224	----	30	256 +	283.75B	68.25A
3300	77.25	84.25B	*70.00A	----	72.40-	60	.230	----	895	5186 +	891.00B	70.00A
3310	----	86.25B	*71.50A	----	74.10-	60	.235	----	4	292 +	292.75B	71.50A
3320	79.75	88.25B	*73.25A	----	75.90-	50	.241	----	96	605 +	297.50B	73.25A
3330	----	90.25B	*75.00A	----	77.80-	40	.247	----	61	1328 +	513.75B	75.00A
3340	----	92.50B	*76.75A	----	79.70-	40	.253	----	565	UNCH	307.00B	76.75A
3350	83.25	94.50B	*78.50A	----	81.60-	30	.259	----	45	2482 -	698.25B	78.50A
3360	----	96.75B	*80.50A	----	83.50-	30	.265	----	417	UNCH	316.75B	80.50A
3370	87.75	99.00B	*82.25A	----	85.50-	20	.271	----	39	144 +	321.75B	82.25A
3380	----	101.25B	*84.25A	----	87.60-	10	.278	----	484	UNCH	327.00B	84.25A
3390	91.00	103.75B	*86.25A	----	89.70	UNCH	.285	----	39	203 -	332.00B	86.25A
3400	102.25	106.00B	*88.25A	----	91.80	UNCH	.291	----	394	4748 +	984.00B	88.25A
3410	101.00	108.50B	*90.25A	----	94.00	UNCH	.298	----	2	554	343.50	90.25A
3420	102.25	111.00B	*92.50A	----	96.30+	10	.305	----	87	430 +	348.25B	92.50A
3430	103.25	113.75B	*94.75A	----	98.60+	10	.313	----	112	364 +	358.25	94.75A
3440	----	116.25B	*97.00A	----	100.90	UNCH	.320	----	1899	UNCH	359.25B	97.00A
3450	112.75	119.00B	*99.25A	----	103.40+	10	.328	----	247	2144 +	727.50B	99.25A
3460	101.00	121.75B	*101.00A	----	105.90+	20	.335	----	21	291 +	370.75B	101.00
3470	115.50	124.50B	*104.00A	----	108.40+	20	.343	----	28	105	378.50	104.00A
3480	113.50	127.50B	*106.25A	----	111.10+	40	.351	----	18	274 -	382.75B	106.25A
3490	118.75	130.50B	*109.00A	----	113.80+	60	.359	----	20	347	388.75B	109.00A
3500	129.00	133.50B	*111.50A	----	116.60+	80	.368	----	68	2360	1079.75B	111.50A
3510	129.00	136.50B	*114.00A	----	119.50+	100	.376	----	35	515 +	401.25B	114.00A
3520	----	139.75B	*116.75A	----	122.40+	110	.385	----	1	330 +	407.75B	116.75A
3530	----	143.00B	*119.75A	----	125.40+	120	.394	----	1	192	414.25B	119.75A
3540	----	146.25B	*122.50A	----	128.50+	130	.403	----	1	157	421.00B	122.50A
3550	138.00	149.75B	*125.50A	----	131.70+	150	.413	----	10	1395	670.00B	125.50A
3560	----	153.25B	*128.50A	----	134.90+	150	.422	----	392	UNCH	434.50B	128.50A
3570	143.50	157.00B	*131.50A	----	138.30+	170	.432	----	7	184 +	441.25B	131.50A
3575	146.25	#158.75B	*133.25A	----	140.00+	NEW	.437	----	10	10 +	158.75B	133.25A
3580	----	160.75B	*134.75A	----	141.70+	180	.442	----	1	236 +	448.50B	134.75A
3590	147.75	164.50B	*138.00A	----	145.20+	190	.452	----	3	120 +	455.50B	138.00A
3600	140.50	168.50B	*140.50	----	148.80+	210	.462	----	83	1932 -	1177.00B	140.50
3610	157.50	172.50B	*144.75A	----	152.50+	230	.472	----	5	49 +	470.00B	144.75A
3620	----	176.75B	*148.50A	----	156.30+	250	.483	----	605	UNCH	477.50B	148.50A
3625	----	#178.75B	*150.25A	----	158.20+	250	.488	----	18	UNCH	178.75B	150.25A
3630	----	181.00B	*152.00A	----	160.20+	260	.494	----	214	UNCH	485.00B	152.00A
3640	----	185.25B	*155.75A	----	164.30+	290	.504	----	77	UNCH	492.50B	155.75A
3650	174.00	189.75B	*159.75A	----	168.50+	310	.515	----	2	1136 +	755.00B	159.75A
3660	----	194.25B	*163.75A	----	172.80+	320	.527	----	17	UNCH	483.50B	163.75A
3670	----	199.00B	*168.00A	----	177.30+	340	.538	----	46	UNCH	491.25B	168.00A
3680	----	204.00B	*172.25A	----	182.00+	370	.549	----	45	UNCH	499.25B	172.25A
3690	----	209.00B	*176.75A	----	186.70+	380	.561	----	80	UNCH	507.50B	176.75A
3700	204.50	214.25B	*181.25A	----	191.60+	400	.572	----	13	585 -	1275.50B	181.25A
3710	----	219.50B	*186.00A	----	196.60+	420	.584	----	21	UNCH	520.25B	186.00A
3720	----	225.00B	*190.75A	----	201.70+	430	.596	----	35	UNCH	528.75B	190.75A
3730	210.50	230.50B	*195.75A	----	206.90+	440	.608	----	10	12 +	537.25B	195.75A
3740	216.00	236.25B	*201.00A	----	212.20+	450	.620	----	21	31 +	546.00B	201.00A
3750	----	242.25B	210.25A	----	217.70+	460	.632	----	526	UNCH	830.25B	207.25A
3760	----	248.25B	215.50A	----	223.40+	480	.644	----	10	UNCH	563.50B	213.00A
3770	----	254.50B	221.25A	----	229.20+	490	.656	----	9	UNCH	572.25B	218.75A
3780	----	260.75B	226.75A	----	235.20+	510	.668	----	5	UNCH	581.25B	224.50A
3790	258.50	267.25B	232.75A	----	241.40+	530	.680	----	2	6 +	590.25B	230.50A
3800	264.00	274.00B	238.75A	----	247.80+	560	.691	----	1	821	1374.75B	236.75A
3810	271.75	280.75B	244.75A	----	254.40+	590	.703	----	5	10 +	608.25B	243.00A
3820	274.50	287.75B	251.25A	----	261.10+	610	.714	----	2	7 +	614.50B	249.50A
3830	284.25	294.75B	257.75A	----	268.00+	640	.725	----	1	2	623.75B	256.00A
3840	291.00	302.00B	264.25A	----	275.10+	680	.736	----	3	30	632.25B	262.75A
3850	300.00	309.50B	271.00A	----	282.30+	700	.746	----	2	71	637.75B	269.75A
3860	306.75	317.00B	278.00A	----	289.70+	740	.756	----	1	UNCH	651.50B	276.75A
3870	304.25	324.50B	285.00A	----	297.10+	760	.766	----	2 +	1	660.75B	284.00A
3900	----	348.00B	307.25A	----	320.20+	810	.795	----	188	UNCH	1474.00B	306.25A
3910	----	356.25B	315.00A	----	328.10+	820	.805	----	1	UNCH	420.25B	314.00A
3920	353.50	364.50B	322.75A	----	336.10+	NEW	.813	----	1	1 +	409.25B	322.00A
3950	----	389.75B	346.75A	----	360.90+	870	.839	----	55	UNCH	752.00B	346.25A
3970	----	407.00B	365.25A	----	377.90+	900	.854	----	2	UNCH	452.75B	362.00A
4000	----	433.50B	390.75A	----	404.10+	940	.874	----	198	UNCH	1573.75B	385.25A
4050	----	477.00B	435.00A	----	449.20+	1010	.901	----	5	UNCH	848.25B	433.50A
4100	----	523.25B	480.50A	----	495.60+	1080	.924	----	101	UNCH	1673.75B	477.75A
4150	----	570.75B	527.00A	----	543.00+	1130	.941	----	10	UNCH	945.25B	522.00A
4200	----	618.75B	574.50A	----	591.10+	1180	.954	----	47	UNCH	1773.75B	567.50A
4250	----	664.75B	622.75A	----	639.60+	1200	.965	----	2	UNCH	1043.75B	614.00A
4300	----	713.25B	671.50A	----	688.60+	1230	.974	----	4	UNCH	1873.75B	661.75A
4500	----	911.75B	868.75A	----	886.50+	1290	.992	----	10	UNCH	2073.75B	856.50A
5000	----	----	----	----	1385.50+	1310	1.000	----	2	UNCH	1477.00B	1364.50A
TOTAL									12231	226437 +	2879	
JUN21	EMINI S&P PUT	.80	.80	----	.85-	5	.001	----	210	6924 -	210	4.10 .75A
700	0.80	1.55	1.45A	----	1.50-	5	.002	----	4	2074	UNCH	6.50 1.35A
900	1.55	----	1.80A	----	1.85-	5	.002	----	1325	UNCH	8.00B 1.75A	
1000	----	2.70B	----	----	2.60	UNCH	.004	----	1746	UNCH	13.25B 2.55	
1200	----	3.20B	*2.95	----	3.00-	5	.005	----	25	1774	UNCH	12.00 2.95
1300	2.95	3.90	3.60	----	3.55-	5	.006	----	23	1373	UNCH	



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PRELIMINARY

Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Contains multiple rows of market data for S&P 500 put options, including strike prices, bid/ask, volume, and open interest.

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PG48	BULLETIN #231@	E-MINI S&P 500 PUT OPTIONS								Mon, Nov 30, 2020	PG48		
3570	1.00	4.50B	*.05	----	----	----	----	3195	----	2793	413.25B	.05	
3575	0.85	5.50	*.05	----	----	----	----	4678	----	1371	148.25B	.05	
3580	1.00	6.75	*.05	----	----	----	----	4821	----	1151	390.25B	.05	
3585	1.00	8.25B	*.05	----	----	----	----	3669	----	544	155.25B	.05	
3590	1.25	10.00	*.05	----	----	----	----	9523	----	2461	399.00B	.05	
3595	1.80	12.25	*.05	----	----	----	----	5417	----	500	162.25B	.05	
3600	2.50	15.25	*.05	----	----	----	----	14039	----	2763	681.75B	.05	
3605	2.20	17.75B	*.05	----	----	----	----	8047	----	501	169.75B	.05	
3610	2.50	21.00	*.05	----	----	----	----	6135	----	811	417.00B	.05	
3615	3.00	25.00B	*.20A	----	----	----	----	7553	----	840	131.75B	.20A	
3620	3.65	29.00B	*1.00	----	----	----	----	4237	----	1295	426.00B	1.00	
3625	4.60	33.50B	*4.20	----	1.77-	793	1.000	2690	3030	2528	139.00B	4.20	
3630	8.25	37.75B	*4.20	----	6.77-	453	1.000	2119	2035	2108	430.75B	4.20	
3635	6.25	42.50B	*6.25	----	11.77-	153	1.000	655	536	667	146.50B	6.25	
3640	7.75	47.25B	*7.75	----	16.77+	117	1.000	189	408	184	434.75B	7.75	
3645	10.25	51.75B	*9.75	----	21.77+	367	1.000	178	260	65	153.25B	9.75	
3650	18.00	55.25B	*12.00	----	26.77+	567	1.000	745	419	717	730.00B	12.00	
3655	53.00	60.75B	*15.50A	----	31.77+	737	1.000	23	5	25	161.25B	15.50A	
3660	51.00	65.75B	*18.25A	----	36.77+	877	1.000	74	40	67	452.75B	18.25A	
3665	42.00	70.50B	*23.50A	----	41.77+	987	1.000	3	2	4	169.50B	23.50A	
3670	25.00	75.50B	*25.00	----	46.77+	1077	1.000	53	58	55	462.00B	25.00	
3675	52.25	80.50B	*36.00A	----	51.77+	1137	1.000	5	4	2	177.75B	36.00A	
3680	52.25	85.50B	40.25A	----	56.77+	1177	1.000	4	4	4	471.25B	40.00A	
3700	77.00	105.75B	59.25A	----	76.77+	1277	1.000	235	3	236	777.50B	58.75A	
3705	58.00	110.50B	*58.00	----	81.77+	1287	1.000	2	2	1	194.50B	58.00	
3740	----	145.50B	99.00A	----	116.77+	1317	1.000	2	2	2	528.25B	96.75A	
3760	----	165.50B	119.00A	----	136.77+	1317	1.000	1	1	1	547.00B	116.25A	
TOTAL								89574	0	-	226047		
DEC20													
1600	----	----	----	----	.10+	5	.000	----	545	4381 +	515	10.75B	.10
1700	----	.10B	----	----	.10+	5	.000	----	----	632	UNCH	13.50B	.30A
1800	----	.15B	----	----	.15+	5	.000	----	----	1137	UNCH	17.25B	.35A
1850	----	----	----	----	.20+	5	.000	----	----	2919	UNCH	19.25B	.20
1900	0.25	.25	*.25	----	.25+	5	.000	----	1	1358 -	1	21.75B	.25
1950	----	----	----	----	.25	UNCH	.000	----	----	1380	UNCH	24.50B	.40
2000	----	----	----	----	.30	UNCH	.001	----	----	4235	UNCH	27.50B	.35A
2050	0.30	.30	*.30	----	.35	UNCH	.001	----	1	503	UNCH	31.00B	.30
2100	----	----	----	----	.40	UNCH	.001	----	----	3123	UNCH	35.00B	.45A
2150	----	----	----	----	.45	UNCH	.001	----	----	3568	UNCH	39.00B	.50A
2200	0.45	.55B	*.45	----	.50	UNCH	.002	----	200	2205	UNCH	43.75B	.45
2250	----	.65B	----	----	.55	UNCH	.002	----	----	758	UNCH	48.75B	.65A
2300	----	.75B	----	----	.65	UNCH	.002	----	84	1380 +	58	54.25B	.75A
2310	----	.75B	----	----	.65	UNCH	.002	----	----	401	UNCH	55.50B	.75A
2320	----	.80B	----	----	.70	UNCH	.003	----	----	184	UNCH	56.75B	.75A
2330	----	.80B	----	----	.70	UNCH	.003	----	----	70	UNCH	58.00B	.80A
2340	----	.85B	*.70A	----	.75	UNCH	.003	----	----	94	UNCH	59.00B	.70A
2350	----	.85B	----	----	.75	UNCH	.003	----	----	1236	UNCH	60.25B	.80A
2360	----	.90B	*.75A	----	.80	UNCH	.003	----	----	434	UNCH	61.75B	.75A
2370	0.80	.90B	*.80	----	.80	UNCH	.003	----	129	340 +	107	63.00B	.80
2380	----	.95B	*.80A	----	.85	UNCH	.003	----	----	240	UNCH	64.25B	.80A
2390	----	.95B	*.80A	----	.85	UNCH	.003	----	----	471	UNCH	65.50B	.80A
2400	1.00	1.00	*.85A	----	.90	UNCH	.004	----	20	1944	UNCH	67.00B	.85A
2410	----	1.00B	*.85A	----	.90	UNCH	.004	----	----	1098	UNCH	68.25B	.85A
2420	----	1.00B	*.85A	----	.90	UNCH	.004	----	----	340	UNCH	69.75B	.85A
2430	----	1.05B	*.90A	----	.95	UNCH	.004	----	----	241	UNCH	71.25B	.90A
2440	----	1.05B	*.90A	----	.95	UNCH	.004	----	----	824	UNCH	72.50B	.90A
2450	----	1.10B	*.95A	----	1.00	UNCH	.004	----	----	1741	UNCH	74.00B	.95A
2460	----	1.15B	*.95A	----	1.00	UNCH	.004	----	----	283	UNCH	75.50B	.95A
2470	----	1.15B	*1.00A	----	1.00-	5	.004	----	----	318	UNCH	77.00B	1.00A
2480	----	1.20B	*1.00A	----	1.05	UNCH	.005	----	----	94	UNCH	78.50B	1.00A
2490	----	1.20B	*1.00A	----	1.05-	5	.005	----	----	562	UNCH	80.25B	1.00A
2500	1.15	1.25B	*1.05A	----	1.05-	10	.005	----	56	1974	UNCH	81.75B	1.05A
2510	----	*1.30B	*1.10A	----	1.10-	5	.005	----	----	376	UNCH	83.50B	1.05A
2520	----	1.30B	*1.10A	----	1.10-	10	.005	----	2	357 -	2	85.00B	1.10A
2530	1.20	1.35B	*1.10A	----	1.15-	10	.005	----	20	731 +	20	86.75B	1.10A
2540	----	1.35B	*1.15A	----	1.15-	10	.005	----	----	241	UNCH	88.25B	1.15A
2550	----	1.40B	*1.15A	----	1.20-	10	.006	----	----	3230	UNCH	90.00B	1.15A
2560	----	1.45B	*1.20A	----	1.20-	15	.006	----	----	705	UNCH	91.75B	1.20A
2570	----	1.50B	*1.25A	----	1.25-	10	.006	----	----	526	UNCH	93.50B	1.25A
2580	----	1.50B	*1.25A	----	1.25-	15	.006	----	3	711	UNCH	95.50B	1.25A
2590	----	1.55B	*1.30A	----	1.30-	15	.006	----	----	229	UNCH	97.25B	1.30A
2600	1.45	1.60B	*1.30A	----	1.30-	15	.006	----	11	1590 -	8	99.00B	1.30A
2610	----	1.65B	*1.35A	----	1.35-	15	.007	----	----	366	UNCH	101.00B	1.35A
2620	----	1.70B	*1.40A	----	1.35-	20	.007	----	----	397	UNCH	102.75B	1.40A
2630	----	1.75B	*1.40A	----	1.40-	15	.007	----	----	297	UNCH	104.75B	1.40A
2640	----	1.80B	*1.45A	----	1.40-	20	.007	----	----	355	UNCH	106.75B	1.45A
2650	1.50	1.85B	*1.50	----	1.45-	20	.007	----	29	1010	UNCH	108.75B	1.50
2660	----	1.90B	*1.50A	----	1.50-	20	.008	----	2	770 -	2	110.75B	1.50A
2670	----	1.95B	*1.55A	----	1.55-	20	.008	----	----	573	UNCH	112.75B	1.55A
2680	----	2.00B	*1.60A	----	1.55-	25	.008	----	----	1285	UNCH	114.75B	1.60A
2690	----	2.05B	*1.65A	----	1.60-	25	.008	----	----	188	UNCH	116.75B	1.65A
2700	1.90	2.15B	*1.65A	----	1.65-	25	.009	----	72	2572 -	29	119.00B	1.65A
2710	----	2.20B	*1.70A	----	1.70-	25	.009	----	----	910	UNCH	121.00B	1.70A
2720	1.85	2.25B	*1.75A	----	1.75-	25	.009	----	4	951 -	1	123.25B	1.75A
2730	----	2.30B	*1.80A	----	1.80-	25	.010	----	2	661	UNCH	125.50B	1.80A
2740	----	2.40B	*1.85A	----	1.85-	25	.010	----	----	648	UNCH	127.50B	1.85A
2750	----	2.45B	*1.90A	----	1.90-	25	.010	----	1	2099	UNCH	130.00B	1.90A
2760	----	2.55B	*1.90A	----	1.95-	25	.011	----	----	106	UNCH	132.25B	1.90A
2770	2.05	2.60B	*1.95A	----	2.00-	25	.011	----	2	702	UNCH	136.25	1.95A
2780	----	2.70B	*2.00A	----	2.05-	25	.011	----	4	1761 -	1	136.75B	2.00A
2790	----	2.75B	*2.05A	----	2.10-	30	.012	----	----	1080	UNCH	139.25B	2.05A
2800	2.45	2.85B	*2.10A	----	2.15-	30	.012	----	138	2303 -	5	141.75B	2.10A
2810	----	*2.90B	*2.20A	----	2.20-	30	.012	----	3	1534	UNCH	144.00B	2.20A
2820	----	3.05B	*2.25A	----	2.25-	35	.013	----	4	2038	UNCH	146.50B	2.25A
2830	----	3.15B	*2.30A	----	2.30-	35	.013	----	5	429 -	5	149.00B	2.30A
2840	----	3.25B	*2.35A	----	2.35-	40	.014	----	----	1226	UNCH	151.75B	2.35A
2850	3.00	3.35B	*2.45A	----	2.45-	35	.014	----	40	1342 -	10	154.50B	2.45A
2860	----	3.45B	*2.50A	----	2.50-	40	.015	----	46	299 +	4	157.00B	2.50A
2870	2.75	3.55B	*2.55A	----	2.60-	35	.015	----	15	661 +	8	159.75B	2.55A
2880	3.20	3.70B	*2.65A	----	2.65-	40	.016	----	1477	1729 +	1343	162.75B	2.65A
2890	3.40	3.80B	*2.70A	----	2.75-	40	.016	----	506	2419 +	494	165.50B	2.70A
2900	3.45	3.95B	*2.80A	----	2.85-	40	.017	----	283	2310 +	253	170.50	2.80A
2910	3.10	4.05B	*2.85A	----	2.90-	45	.018	----	3	361 +	2	171.25B	2.85A
2920	----	4.20B	*2.95A	----	3.00-	45	.018	----	9	1151 -	9	174.00B	2.95A
2930	----	4.35B	*3.05A	----	3.10-	45	.019	----	4	543			



E-MINI S&P 500 PUT OPTIONS

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PRELIMINARY

Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Contains multiple rows of market data for S&P 500 put options, including strike prices, bid/ask prices, and volume.

THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.



PRELIMINARY

PG48	BULLETIN #231@	E-MINI S&P 500 PUT OPTIONS										Mon, Nov 30, 2020				PG48
2300	----	2.55B	*2.20A	----	2.20-	10	.008	----	----	586	UNCH	37.00	2.20A			
2350	----	2.90B	*2.45A	----	2.45-	15	.009	----	----	409	UNCH	40.75B	2.45A			
2400	2.90	3.25B	*2.80A	----	2.75-	15	.010	----	1	316 +	1	45.25B	2.80A			
2420	3.05	3.45B	*2.90A	----	2.85-	20	.011	----	1	248	UNCH	39.25B	2.90A			
2430	3.10	3.50B	*2.95A	----	2.95-	15	.011	----	1	204	UNCH	48.25B	2.95A			
2440	----	3.60B	*3.05A	----	3.00-	15	.011	----	----	280	UNCH	49.25B	3.05A			
2450	----	3.70B	*3.10A	----	3.10-	15	.012	----	----	443	UNCH	50.25B	3.10A			
2460	----	3.80B	*3.15A	----	3.15-	20	.012	----	----	5	UNCH	51.25B	3.15A			
2470	----	3.90B	*3.25A	----	3.25-	15	.012	----	----	57	UNCH	52.50B	3.25A			
2480	----	4.00B	*3.30A	----	3.30-	20	.013	----	1	174	UNCH	53.50B	3.30A			
2490	----	4.10B	*3.40A	----	3.40-	20	.013	----	----	41	UNCH	54.50B	3.40A			
2500	3.85	4.20B	*3.45A	----	3.50-	15	.014	----	7	794 +	6	55.75B	3.45A			
2510	----	4.30B	*3.55A	----	3.55-	20	.014	----	----	4	UNCH	57.00B	3.55A			
2520	4.10	4.45B	*3.65A	----	3.65-	20	.014	----	14	65 +	13	58.00B	3.65A			
2530	4.20	4.55B	*3.70A	----	3.75-	20	.015	----	1	54 +	1	59.25B	3.70A			
2540	----	4.70B	*3.80A	----	3.85-	20	.015	----	----	131	UNCH	60.50B	3.80A			
2550	----	4.80B	*3.90A	----	3.95-	20	.016	----	----	772	UNCH	61.75B	3.90A			
2560	----	4.90B	*4.00A	----	4.05-	20	.016	----	----	49	UNCH	63.00B	4.00A			
2570	----	5.00B	*4.05A	----	4.15-	20	.017	----	----	112	UNCH	64.25B	4.05A			
2580	----	5.00B	*4.15A	----	4.25-	25	.017	----	250	352 +	250	65.50B	4.15A			
2590	----	5.25B	*4.25A	----	4.35-	25	.018	----	----	253	UNCH	66.75B	4.25A			
2600	4.35	5.50B	*4.35	----	4.45-	25	.018	----	32	392 +	12	68.25B	4.35			
2610	5.00	5.50B	*4.50A	----	4.55-	30	.018	----	20	103	UNCH	69.50B	4.50A			
2620	----	5.75B	*4.60A	----	4.65-	35	.019	----	----	88	UNCH	71.00B	4.60A			
2630	----	5.75B	*4.70A	----	4.75-	35	.019	----	----	532	UNCH	72.25B	4.70A			
2640	5.75	6.00B	*4.80A	----	4.85-	45	.020	----	1	69 +	1	73.75B	4.80A			
2650	5.75	6.25B	*4.95A	----	5.00-	40	.021	----	6	217 +	3	75.25B	4.95A			
2660	----	6.25B	*5.25A	----	5.10-	40	.021	----	----	70	UNCH	76.75B	5.25A			
2670	----	6.50B	*5.25A	----	5.20-	50	.022	----	----	8	UNCH	78.25B	5.25A			
2680	----	6.75B	*5.50A	----	5.40-	40	.023	----	66	203 +	42	79.75B	5.50A			
2690	6.00	7.00B	*5.50A	----	5.50-	50	.023	----	2	152 +	2	81.25B	5.50A			
2700	6.50	7.00B	*5.75A	----	5.70-	50	.024	----	34	408	UNCH	82.75B	5.75A			
2710	----	7.25B	*5.75A	----	5.80-	50	.025	----	----	8	UNCH	84.50B	5.75A			
2720	----	7.50B	*6.00A	----	6.00-	50	.025	----	----	26	UNCH	86.00B	6.00A			
2730	----	7.75B	*6.25A	----	6.10-	60	.026	----	----	15	UNCH	87.75B	6.25A			
2740	----	8.00B	*6.25A	----	6.30-	50	.027	----	----	11	UNCH	89.25B	6.25A			
2750	----	8.25B	*6.50A	----	6.50-	50	.028	----	----	253	UNCH	91.00B	6.50A			
2760	----	8.50B	*6.75A	----	6.70-	50	.029	----	17	152 +	17	92.75B	6.75A			
2770	----	8.75B	*6.75A	----	6.80-	60	.029	----	----	117	UNCH	94.50B	6.75A			
2780	----	9.00B	*7.00A	----	7.00-	60	.030	----	----	85	UNCH	96.25B	7.00A			
2790	----	9.25B	*7.25A	----	7.30-	50	.032	----	----	80	UNCH	98.00B	7.25A			
2800	8.00	9.50B	*7.50A	----	7.50-	50	.033	----	46	1166 +	4	99.75B	7.50A			
2810	----	9.75B	*7.75A	----	7.70-	60	.034	----	----	293	UNCH	101.75B	7.75A			
2820	----	10.00B	*8.00A	----	7.90-	60	.035	----	----	173	UNCH	103.50B	8.00A			
2830	----	10.50B	*8.00A	----	8.20-	50	.036	----	5	52 +	5	105.50B	8.00A			
2840	----	10.75B	*8.25A	----	8.40-	60	.037	----	----	45	UNCH	107.25B	8.25A			
2850	9.00	11.00B	*8.50A	----	8.70-	60	.038	----	2	1072 +	2	109.25B	8.50A			
2860	----	11.50B	*8.75A	----	8.90-	60	.039	----	5	441 +	3	111.25B	8.75A			
2870	----	11.75B	*9.25A	----	9.20-	60	.041	----	----	10	UNCH	113.25B	9.25A			
2880	----	12.25B	*9.50A	----	9.50-	60	.042	----	2	96	UNCH	115.25B	9.50A			
2890	----	12.50B	*9.75A	----	9.80-	60	.044	----	5	344	UNCH	117.25B	9.75A			
2900	12.00	13.00	*10.00A	----	10.10-	60	.045	----	193	495 +	26	119.50B	10.00A			
2910	----	13.50B	*10.25A	----	10.40-	70	.047	----	1	48 +	1	122.00B	10.25A			
2920	----	13.75B	*10.50A	----	10.70-	70	.048	----	2	44	UNCH	124.75B	10.50A			
2930	----	14.25B	*11.00A	----	11.10-	70	.050	----	1	220 +	1	127.25B	11.00A			
2940	----	14.75B	*11.25A	----	11.40-	80	.051	----	----	70	UNCH	130.00B	11.25A			
2950	14.75	15.25B	*11.75A	----	11.80-	70	.053	----	1	353	UNCH	132.75B	11.75A			
2960	----	15.75B	*12.00A	----	12.20-	70	.055	----	4	17 +	3	135.50B	12.00A			
2970	----	16.25B	*12.50A	----	12.60-	80	.057	----	1	264 +	1	138.25B	12.50A			
2980	----	16.75B	*12.75A	----	13.00-	80	.059	----	----	111	UNCH	141.00B	12.75A			
2990	14.25	17.50B	*13.25A	----	13.40-	80	.061	----	68	333 +	58	144.00B	13.25A			
3000	14.00	18.00B	*13.50A	----	13.80-	90	.063	----	214	1065 +	9	149.50	13.50A			
3010	----	18.50B	*14.00A	----	14.30-	90	.065	----	10	246	UNCH	149.75B	14.00A			
3020	----	19.25B	*14.50A	----	14.80-	90	.067	----	10	151 +	8	153.00B	14.50A			
3030	16.25	19.75B	*15.00A	----	15.30-	90	.070	----	20	175 +	20	156.00B	15.00A			
3040	----	20.50B	*15.50A	----	15.80-	90	.072	----	33	108 +	9	159.00B	15.50A			
3050	----	21.25B	*16.00A	----	16.40-	90	.075	----	8	674 +	8	162.25B	16.00A			
3060	----	21.75B	*16.50A	----	16.90-	100	.077	----	2	127 +	1	165.50B	16.50A			
3070	21.25	22.50B	*16.75A	----	17.50-	90	.080	----	183	464 +	100	168.75B	16.75A			
3080	19.25	23.25B	*17.75A	----	18.10-	90	.083	----	20	186 +	20	172.00B	17.75A			
3090	----	24.00B	*18.25A	----	18.70-	100	.086	----	5	685 +	3	175.25B	18.25A			
3100	22.00	25.00B	*18.75A	----	19.40-	90	.089	----	39	564 +	2	178.75B	18.75A			
3110	----	25.75B	*19.50A	----	20.10-	90	.092	----	----	80	UNCH	182.25B	19.50A			
3120	----	26.50B	*20.25A	----	20.80-	90	.095	----	1	294 +	1	185.75B	20.25A			
3130	----	27.50B	*20.75A	----	21.50-	90	.099	----	----	110	UNCH	189.25B	20.75A			
3140	26.50	28.50B	*21.50A	----	22.30-	80	.102	----	12	121 -	2	192.75B	21.50A			
3150	22.75	29.75B	*22.25A	----	23.00-	90	.106	----	118	297 +	107	196.50B	22.25A			
3160	25.75	30.25B	*23.00A	----	23.80-	90	.109	----	4	205 +	1	200.25B	23.00A			
3170	----	31.25B	*23.75A	----	24.70-	80	.113	----	14	89 +	10	204.00B	23.75A			
3180	27.25	32.25B	*24.50A	----	25.50-	80	.117	----	8	52 +	7	207.75B	24.50A			
3190	----	33.50B	*25.50A	----	26.40-	80	.121	----	13	239 -	3	211.75B	25.50A			
3200	26.00	34.50B	*25.75	----	27.30-	80	.125	----	104	802 +	85	215.50B	25.75			
3210	32.00	35.75B	*27.25A	----	28.30-	70	.130	----	1	258 -	1	219.50B	27.25A			
3220	----	36.75B	*28.00A	----	29.20-	80	.134	----	----	441	UNCH	223.75B	28.00A			
3230	----	38.00B	*29.00A	----	30.20-	70	.139	----	20	283 +	20	227.75B	29.00A			
3240	----	39.25B	*30.00A	----	31.30-	60	.144	----	3	335	UNCH	232.00B	30.00A			
3250	33.75	40.50B	*31.00A	----	32.30-	70	.149	----	7	384	UNCH	236.25B	31.00A			
3260	----	41.75B	*32.25A	----	33.40-	70	.154	----	1	172 +	1	240.50B	32.25A			
3270	----	43.25B	*33.25A	----	34.60-	60	.159	----	----	43	UNCH	244.75B	33.25A			
3280	----	44.75B	*34.25A	----	35.80-	50	.164	----	----	56	UNCH	249.25B	34.25A			
3290	----	46.00B	*35.50A	----	37.00-	50	.170	----	2	621 -	1	253.75B	35.50A			
3300	42.50	47.50B	*36.50	----	38.30-	40	.176	----	9	523	UNCH	258.50B	36.50			
3310	41.00	49.00B	*38.00A	----	39.60-	40	.182	----	80	308 +	40	263.00B	38.00A			
3320	----	50.75B	*39.25A	----	40.90-	40	.188	----	50	75 +	10	267.75B	39.25A			
3330	----	52.25B	*40.50A	----	42.30-	30	.194	----	3	29 +	1	272.75B	40.50A			
3340	----	54.00B	*41.75A	----	43.80-	20	.201	----	100	367 +	99	277.75B	41.75A			
3350	50.75	55.75B	*43.00A	----	45.20-	20	.207	----	144	626 +	67	282.75B	43.00A			
3360	53.25	57.50B	*44.50A	----	46.80-	10	.215	----	1	516	UNCH	287.75B	44.50A			
3370	----	59.50B	*46.00A	----	48.30-	10	.222	----	----	523	UNCH	293.00B	46			

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PG48	BULLETIN #231@	E-MINI S&P 500 PUT OPTIONS								Mon, Nov 30, 2020				PG48
3730	----	192.75B	*155.75A	----	167.50+	530	.667	----	----	29	UNCH	551.75B	155.75A	
3750	----	206.25B	*167.50A	----	179.90+	560	.699	----	2	1	UNCH	569.75B	167.50A	
3780	----	227.75B	*187.00A	----	200.20+	620	.746	----	----	50	UNCH	597.00B	187.00A	
3820	----	259.00B	*216.25A	----	230.20+	720	.801	----	----	10	UNCH	628.00B	216.25A	
3830	----	267.00B	*223.75A	----	238.20+	750	.813	----	----	6	UNCH	637.00B	223.75A	
3850	----	283.75B	239.25A	----	254.60+	NEW	.837	----	2	1 +	1	656.25B	239.25A	
3900	----	327.50B	281.25A	----	297.90+	940	.884	----	----	1	UNCH	698.50B	280.25A	
4050	----	463.50B	422.50A	----	439.00+	1180	.960	----	----	34	UNCH	844.25B	416.75A	
4100	----	513.00B	471.00A	----	487.80+	1220	.971	----	----	2	UNCH	893.25B	462.50A	
4200	----	611.75B	569.00A	----	586.60+	1270	.985	----	----	1	UNCH	991.75B	557.00A	
4400	----	810.25B	767.50A	----	785.60+	1300	.995	----	----	1	UNCH	1190.00B	753.00A	
4600	----	1.00010.(967.00A	----	985.40+	1310	.997	----	----	5	UNCH	1388.50B	952.00A	
TOTAL										3140				
FEB21										39380	+	1533		
1600	1.30	1.30	*1.25A	----	1.15-	10	.002	----	----	166	184 +	93	8.75B	1.25A
1700	1.55	1.55	1.50A	----	1.45-	10	.003	----	----	332	380 +	321	13.00B	1.50A
1800		1.90B	*1.75A	----	1.75-	10	.004	----	----	389	UNCH	16.25B	1.75A	
1900	2.30	2.30	*2.15A	----	2.10-	10	.005	----	25	221 +	25	20.25	2.15A	
1950	----	2.55B	*2.35A	----	2.30-	10	.006	----	----	202	UNCH	17.75B	2.35A	
2000	----	2.80B	*2.50A	----	2.55-	10	.007	----	----	262	UNCH	23.25B	2.50A	
2050	2.80	3.10B	*2.75A	----	2.80-	10	.008	----	10	70 -	10	23.25B	2.75A	
2100	3.05	3.45B	*3.05	----	3.05-	15	.009	----	33	106 +	33	28.00B	3.05	
2150	----	3.80B	*3.40A	----	3.35-	20	.010	----	----	501	UNCH	31.25B	3.40A	
2200	----	4.25B	*3.70A	----	3.70-	25	.011	----	----	285	UNCH	34.75B	3.70A	
2250	4.90	4.90	*4.10A	----	4.10-	30	.012	----	3	245 -	3	39.75B	4.10A	
2300	----	5.25B	*4.55A	----	4.55-	35	.014	----	----	175	UNCH	42.25B	4.55A	
2350	----	5.75B	*5.00A	----	5.10-	30	.016	----	----	157	UNCH	46.75B	5.00A	
2400	----	6.50B	*5.75A	----	5.60-	40	.018	----	1	460	UNCH	52.50B	5.75A	
2420	----	7.00B	*6.00A	----	5.80-	40	.019	----	----	126	UNCH	50.25B	6.00A	
2430	----	7.00B	*6.00A	----	5.90-	50	.019	----	----	10	UNCH	51.25B	6.00A	
2440	----	7.25B	*6.25A	----	6.00-	50	.020	----	----	177	UNCH	52.50B	6.25A	
2450	----	7.50B	*6.25A	----	6.10-	60	.020	----	----	194	UNCH	57.25B	6.25A	
2460	----	7.50B	*6.50A	----	6.30-	50	.021	----	----	58	UNCH	54.75B	6.50A	
2470	----	7.75B	*6.50A	----	6.40-	60	.021	----	----	26	UNCH	56.00B	6.50A	
2480	----	8.00B	*6.75A	----	6.60-	60	.022	----	----	113	UNCH	57.25B	6.75A	
2490	----	8.25B	*6.75A	----	6.70-	60	.022	----	----	82	UNCH	58.50B	6.75A	
2500	----	8.50B	*7.00A	----	6.90-	60	.023	----	----	151	UNCH	63.00B	7.00A	
2510	----	8.50B	*7.25A	----	7.10-	60	.024	----	----	1	UNCH	61.25B	7.25A	
2520	----	8.75B	*7.25A	----	7.30-	60	.024	----	----	78	UNCH	62.50B	7.25A	
2530	----	9.00B	*7.50A	----	7.40-	70	.025	----	----	123	UNCH	64.00B	7.50A	
2540	----	9.25B	*7.75A	----	7.60-	70	.026	----	----	99	UNCH	65.25B	7.75A	
2550	8.50	9.50B	*7.75A	----	7.80-	70	.026	----	8	195	UNCH	69.25B	7.75A	
2560	----	9.75B	*8.00A	----	8.00-	70	.027	----	----	83	UNCH	70.50B	8.00A	
2570	----	10.00B	*8.25A	----	8.20-	70	.028	----	----	48	UNCH	72.00B	8.25A	
2590	----	10.50B	*8.50A	----	8.60-	70	.029	----	----	2	UNCH	74.75B	8.50A	
2600	----	10.75B	*8.75A	----	8.80-	70	.030	----	----	155	UNCH	76.25B	8.75A	
2610	----	11.00B	*9.00A	----	9.10-	60	.031	----	----	4	UNCH	77.50B	9.00A	
2640	----	12.00B	*9.75A	----	9.80-	60	.034	----	----	100	UNCH	82.00B	9.75A	
2650	----	12.25B	*10.00A	----	10.00-	70	.035	----	1	117	UNCH	83.75B	10.00A	
2660	----	12.50B	*10.25A	----	10.30-	60	.036	----	----	91	UNCH	85.00B	10.25A	
2670	----	13.00B	*10.50A	----	10.50-	70	.037	----	----	152	UNCH	86.50B	10.50A	
2680	12.00	13.25B	*10.75A	----	10.80-	70	.038	----	50	56 +	33	88.25B	10.75A	
2690	----	13.50B	*11.00A	----	11.10-	70	.039	----	8	100 +	8	90.00B	11.00A	
2700	12.25	14.00B	*11.25A	----	11.30-	80	.040	----	61	294 +	52	93.00	11.25A	
2710	----	14.25B	*11.50A	----	11.60-	80	.041	----	----	22	UNCH	93.75B	11.50A	
2720	----	14.75B	*11.75A	----	11.90-	80	.042	----	1	113 +	1	95.75B	11.75A	
2730	----	15.00B	*12.25A	----	12.30-	70	.043	----	----	16	UNCH	97.75B	12.25A	
2740	----	15.50B	*12.50A	----	12.60-	80	.044	----	----	55	UNCH	99.75B	12.50A	
2750	14.00	16.00B	*12.75A	----	12.90-	80	.046	----	16	718 +	10	101.75B	12.75A	
2760	----	16.25B	*13.00A	----	13.20-	90	.047	----	----	16	UNCH	104.00B	13.00A	
2770	14.75	16.75B	*13.50A	----	13.60-	80	.048	----	6	109	UNCH	106.00B	13.50A	
2780	----	17.25B	*13.75A	----	14.00-	80	.050	----	----	21	UNCH	108.25B	13.75A	
2800	17.50	18.25B	*14.50A	----	14.70-	90	.052	----	7	119	UNCH	112.50B	14.50A	
2810	----	18.75B	*15.00A	----	15.10-	100	.054	----	----	15	UNCH	114.75B	15.00A	
2820	----	19.25B	*15.25A	----	15.50-	100	.055	----	1	1 +	1	117.00B	15.25A	
2830	----	19.75B	*15.75A	----	16.00-	100	.057	----	----	13	UNCH	119.50B	15.75A	
2850	----	20.75B	*16.75A	----	16.90-	100	.061	----	----	9	UNCH	124.25B	16.75A	
2860	----	21.50B	*17.00A	----	17.30-	110	.062	----	----	3	UNCH	126.75B	17.00A	
2870	----	22.00B	*17.50A	----	17.80-	110	.064	----	----	74	UNCH	129.00B	17.50A	
2880	----	22.50B	*18.00A	----	18.30-	110	.066	----	----	14	UNCH	131.50B	18.00A	
2890	----	23.25B	*18.50A	----	18.80-	110	.068	----	----	50	UNCH	134.25B	18.50A	
2900	----	23.75B	*19.00A	----	19.30-	120	.070	----	----	318	UNCH	136.75B	19.00A	
2910	----	24.50B	*19.50A	----	19.90-	110	.072	----	----	1	UNCH	139.25B	19.50A	
2920	21.50	25.25B	*20.00A	----	20.40-	120	.074	----	4	20	UNCH	142.00B	20.00A	
2930	----	25.75B	*20.75A	----	21.00-	120	.076	----	----	8	UNCH	144.75B	20.75A	
2940	22.75	26.50B	*21.25A	----	21.60-	120	.078	----	7	8 +	6	147.50B	21.25A	
2950	----	27.25B	*21.75A	----	22.20-	120	.080	----	----	18	UNCH	150.25B	21.75A	
2960	24.00	28.00B	*22.50A	----	22.80-	120	.083	----	4	77 +	4	153.00B	22.50A	
2970	24.75	28.75B	*23.00A	----	23.50-	110	.085	----	1	27	UNCH	156.00B	23.00A	
2980	----	29.50B	*23.75A	----	24.10-	120	.087	----	----	66	UNCH	158.75B	23.75A	
2990	26.00	30.50B	*24.25A	----	24.80-	120	.090	----	90	90 +	86	161.50B	24.25A	
3000	28.25	31.25B	*25.00A	----	25.50-	110	.093	----	76	400 +	68	164.50B	25.00A	
3010	27.50	32.00B	*25.75A	----	26.20-	120	.095	----	2	138 +	2	167.50B	25.75A	
3020	28.25	33.00B	*26.50A	----	27.00-	110	.098	----	30	111 +	15	170.75B	26.50A	
3030	----	34.00B	*27.00A	----	27.80-	100	.101	----	----	107	UNCH	174.00B	27.00A	
3040	30.00	34.75B	*27.75A	----	28.60-	100	.104	----	2	44 -	1	177.00B	27.75A	
3050	33.75	35.75B	*28.75A	----	29.40-	100	.107	----	1	233 -	1	180.25B	28.75A	
3060	----	36.75B	*29.50A	----	30.20-	100	.110	----	----	74	UNCH	183.		



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Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Contains multiple rows of market data including strike prices, bid/ask, and volume.

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Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Contains bid/ask data for various strike prices.

ADDITIONAL E-MINI S&P PUTS

Main 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. Lists various strike prices and their corresponding market data.



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Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Contains multiple rows of market data for S&P 500 put options, including prices, volumes, and bid/ask information.

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Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Contains multiple sections of market data including APR21 EOW3 MINI S&P P and MDW MID DEC20 MDW MID.

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E-MINI S&P 500 PUT OPTIONS



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Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. The table contains multiple columns of data representing option prices and quantities for various strikes and contracts.

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Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Contains multiple columns of market data including prices, volumes, and option specifications.

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Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Contains multiple rows of market data for S&P 500 put options.

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PG48	BULLETIN #231@	E-MINI S&P 500 PUT OPTIONS	Mon, Nov 30, 2020	PG48
3450	---	#36.50B	---	---
3455	5.25	7.75B	*2.50A	---
3455	17.00	19.00B	*10.00A	---
3460	5.00	8.25B	*2.65A	---
3460	14.50	19.75B	*10.50A	---
3465	5.00	8.75B	*2.85A	---
3465	19.25	20.50B	*11.00A	---
3470	6.50	9.25B	*3.00A	---
3470	6.50	21.25B	*11.25A	---
3475	13.25	9.75B	*3.25A	---
3475	13.25	22.00B	*11.75A	---
3475	---	#41.25B	---	---
3480	7.00	10.25B	*3.45A	---
3480	20.75	22.75B	*12.25A	---
3480	---	36.25B	*23.50A	---
3485	7.25	11.00B	*3.70A	---
3485	19.50	23.75B	*12.75A	---
3490	---	11.50B	*3.95A	---
3490	17.00	24.50B	*13.25A	---
3490	---	38.25B	*25.00A	---
3495	9.75	12.25B	*4.25A	---
3495	17.75	25.50B	*14.00A	---
3495	---	#45.75B	---	---
3495	30.25	39.50B	*26.00A	---
3500	6.50	13.00B	*4.55A	---
3500	17.25	26.50B	*14.50A	---
3500	32.50	40.50B	*26.50A	---
3500	---	#47.00B	---	---
3505	13.25	13.75B	*4.85A	---
3505	20.00	27.25B	*15.00A	---
3510	13.00	14.50B	*5.25A	---
3510	20.75	28.50B	*15.75A	---
3510	---	#49.50B	---	---
3515	10.75	15.50B	*5.75A	---
3515	21.50	29.50B	*16.25A	---
3520	15.75	16.25B	*6.00A	---
3520	22.75	30.50B	*17.00A	---
3520	---	45.50B	*30.00A	---
3525	15.50	17.25B	*6.50A	---
3525	21.50	31.75B	*17.75A	---
3530	11.50	18.25B	*7.00A	---
3530	24.25	33.00B	*18.50A	---
3530	---	#55.00B	---	---
3535	14.00	19.50B	*7.50A	---
3535	---	34.25B	*19.25A	---
3535	---	49.75B	*32.75A	---
3540	15.00	20.50B	*8.00A	---
3540	25.50	35.50B	*20.25A	---
3540	---	51.25B	*33.75A	---
3540	---	#58.00B	---	---
3545	14.00	21.75B	*8.50A	---
3545	26.75	36.75B	*21.00A	---
3545	---	53.00B	*34.75A	---
3550	12.25	23.00B	*9.25A	---
3550	30.25	38.25B	*21.50	---
3555	18.00	24.50B	*10.00A	---
3555	---	39.75B	*22.75A	---
3555	---	56.25B	*36.75A	---
3560	18.25	25.75B	*10.75A	---
3560	33.00	41.25B	*23.75A	---
3560	---	58.00B	*38.00A	---
3565	20.25	27.50B	*11.50A	---
3565	30.25	43.00B	*24.75A	---
3565	---	59.75B	*39.00A	---
3570	17.50	29.00B	*12.25A	---
3570	35.75	44.75B	*25.75A	---
3570	---	61.50B	*40.25A	---
3575	18.50	30.75B	*13.25A	---
3575	38.50	46.50B	*26.50A	---
3575	---	63.50B	*41.50A	---
3575	---	#70.00B	---	---
3580	21.25	32.50B	*14.25A	---
3580	35.00	48.25B	*27.75A	---
3580	---	#72.00B	---	---
3585	23.75	34.50B	*15.25A	---
3585	---	50.25B	*28.75A	---
3590	24.00	36.50B	*16.25A	---
3590	37.25	52.25B	*30.00A	---
3590	---	69.50B	*45.50A	---
3595	36.50	38.75B	*17.25A	---
3595	---	54.25B	*31.25A	---
3600	36.75	41.00B	*18.25A	---
3600	34.00	56.50B	*32.50A	---
3600	58.25	74.00B	*48.50A	---
3600	---	#80.25B	---	---
3605	31.00	43.50B	*19.50A	---
3605	41.50	58.75B	*33.75A	---
3610	40.00	46.00B	*20.75A	---
3610	44.00	61.00B	*35.25A	---
3610	---	#84.75B	---	---
3615	42.25	48.50B	*22.00A	---
3615	---	63.50B	*36.75A	---
3615	---	81.00B	*53.50A	---
3615	---	#87.25B	---	---
3620	14.00	51.00B	*14.00	---
3620	46.50	66.00B	*38.50A	---
3620	---	83.50B	*55.00A	---
3620	---	#89.50B	---	---
3625	72.25	54.00B	*25.00A	---
3625	31.25	68.50B	*40.00A	---
3625	50.50	86.00B	*57.00A	---
3625	---	#92.00B	---	---
3630	37.50	57.00B	*26.75A	---
3630	---	71.25B	*41.75A	---
3630	---	#94.50B	---	---
3635	37.75	60.25B	*28.50A	---
3635	72.75	73.75B	*43.50A	---
3640	34.25	63.50B	*30.25A	---
3640	56.50	76.75B	*45.25A	---
3645	33.00	66.75B	*32.25A	---
3645	66.75	79.75B	*47.50A	---
3650	49.75	70.50B	*34.50A	---
3650	70.50	82.75B	*49.50A	---
3650	---	100.00B	*67.25A	---
3655	49.25	74.00B	*37.50A	---
3655	84.75	86.00B	*51.75A	---
3655	90.50	#108.50B	---	---
3660	---	78.00B	*40.25A	---
3660	60.25	89.25B	*54.00A	---
3665	70.50	81.75B	*42.75A	---
3665	68.75	92.50B	*57.00A	---
3665	91.50	109.50B	*74.50A	---
3670	68.00	85.75B	*45.75A	---
3675	63.25	89.75B	*48.75A	---
3675	78.50	99.50B	*62.00A	---
3680	76.00	94.00B	*61.50A	---
3680	---	103.25B	*64.75A	---
3685	70.00	98.25B	*55.00A	---
3695	107.00	107.00	*62.25A	---
3700	---	111.50B	*65.50A	---
3705	111.00	115.50B	*69.75A	---
3710	114.00	118.75B	*73.75A	---
3715	---	123.50B	*77.75A	---
3720	---	128.00B	*81.75A	---
3725	---	139.75B	*94.75A	---
3740	---	153.00B	*106.50A	---
3745	117.25	151.75B	*104.00A	---
3750	---	156.75B	*108.25A	---
3775	---	181.25B	*131.75A	---
3785	---	191.00B	*141.50A	---
3850	---	255.75B	*204.75A	---
TOTAL			226.90+	13.00
RTM EOM				
				13791
				30324 +
				9785



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PRELIMINARY

Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Rows include contract details like 1860 TOTAL, JAN21 RTM EOM, and FEB21 RTM EOM with various price points and volumes.



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Table with columns: PG48, BULLETIN #231@, E-MINI S&P 500 PUT OPTIONS, Mon, Nov 30, 2020, PG48. Rows include contract numbers (1400-1820) and their corresponding prices and volumes.

E-MINI S&P 500 FIXING PRICE (ESF): Dec21 3623.23

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PG48 BULLETIN #231@

E-MINI S&P 500 PUT OPTIONS

Mon, Nov 30, 2020 PG48

OPTIONS EOO'S, BLOCKS and EXERCISES

PRODUCT	STRIKE PRICE	EOO VOLUME	BLOCK VOLUME	M-T-D BLOCK VOLUME	OPTION EXERCISES	M-T-D OPTION EXERCISES	Transfer VOLUME
EMINI S&P CALL DEC20 CALL E-MINI S&P 500 OPTIONS							
EZ	1400	----	----	----	----	23	0.00
EZ	1450	----	----	----	----	12	0.00
EZ	1500	----	----	----	----	41	0.00
EZ	1600	----	----	----	----	2	0.00
EZ	1800	----	----	----	----	204	0.00
EZ	1850	----	----	----	----	14	0.00
EZ	1900	----	----	----	----	31	0.00
EZ	2000	----	----	----	----	1	0.00
TOTALS		0	0	0	0	328	0
EMINI S&P PUT DEC20 PUT E-MINI S&P 500 OPTIONS							
EZ	4500	----	----	----	----	36	0.00
TOTALS		0	0	0	0	36	0
EOM EMINI S&P C NOV20 CALL E-MINI S&P 500 OPTIONS							
EW	1500	----	----	----	7	7	0.00
EW	2200	----	----	----	1	1	0.00
EW	2450	----	----	----	1	1	0.00
EW	2500	----	----	----	134	134	0.00
EW	2630	----	----	----	2	2	0.00
EW	2650	----	----	----	2	2	0.00
EW	2700	----	----	----	2	2	0.00
EW	2720	----	----	----	1	1	0.00
EW	2730	----	----	----	1	1	0.00
EW	2740	----	----	----	1	1	0.00
EW	2750	----	----	----	4	4	0.00
EW	2790	----	----	----	1	1	0.00
EW	2800	----	----	----	174	174	0.00
EW	2850	----	----	----	2	2	0.00
EW	2880	----	----	----	5	5	0.00
EW	2890	----	----	----	1	1	0.00
EW	2900	----	----	----	2	2	0.00
EW	2930	----	----	----	2	2	0.00
EW	2950	----	----	----	15	15	0.00
EW	2970	----	----	----	5	5	0.00
EW	2980	----	----	----	10	10	0.00
EW	2990	----	----	----	3	3	0.00
EW	3000	----	----	----	67	67	0.00
EW	3010	----	----	----	15	15	0.00
EW	3020	----	----	----	23	23	0.00
EW	3030	----	----	----	24	24	0.00
EW	3040	----	----	----	141	141	0.00
EW	3045	----	----	----	55	55	0.00
EW	3050	----	----	----	44	44	0.00
EW	3060	----	----	----	57	57	0.00
EW	3070	----	----	----	83	83	0.00
EW	3080	----	----	----	76	76	0.00
EW	3090	----	----	----	41	41	0.00
EW	3095	----	----	----	10	10	0.00
EW	3100	----	----	----	87	87	0.00
EW	3110	----	----	----	113	113	0.00
EW	3120	----	----	----	43	43	0.00
EW	3130	----	----	----	20	20	0.00
EW	3140	----	----	----	25	25	0.00
EW	3145	----	----	----	49	49	0.00
EW	3150	----	----	----	200	200	0.00
EW	3160	----	----	----	6	6	0.00
EW	3170	----	----	----	32	32	0.00
EW	3180	----	----	----	1	1	0.00
EW	3190	----	----	----	51	51	0.00
EW	3200	----	----	----	291	291	0.00
EW	3210	----	----	----	81	81	0.00
EW	3220	----	----	----	61	61	0.00
EW	3230	----	----	----	68	68	0.00
EW	3235	----	----	----	32	32	0.00
EW	3240	----	----	----	140	140	0.00
EW	3250	----	----	----	481	481	0.00
EW	3255	----	----	----	1	1	0.00
EW	3260	----	----	----	129	129	0.00
EW	3270	----	----	----	85	85	0.00
EW	3275	----	----	----	12	12	0.00
EW	3280	----	----	----	403	403	0.00
EW	3285	----	----	----	77	77	0.00

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PG48	BULLETIN #231@	E-MINI S&P 500 PUT OPTIONS						Mon, Nov 30, 2020	PG48
EW	3290	----	----	----	117	117	0.00		
EW	3300	----	----	----	739	739	0.00		
EW	3305	----	----	----	12	12	0.00		
EW	3310	----	----	----	118	118	0.00		
EW	3315	----	----	----	102	102	0.00		
EW	3320	----	----	----	247	247	0.00		
EW	3325	----	----	----	4	4	0.00		
EW	3330	----	----	----	138	138	0.00		
EW	3340	----	----	----	363	363	0.00		
EW	3345	----	----	----	25	25	0.00		
EW	3350	----	----	----	429	429	0.00		
EW	3355	----	----	----	14	14	0.00		
EW	3360	----	----	----	138	138	0.00		
EW	3365	----	----	----	66	66	0.00		
EW	3370	----	----	----	893	893	0.00		
EW	3375	----	----	----	138	138	0.00		
EW	3380	----	----	----	182	182	0.00		
EW	3385	----	----	----	40	40	0.00		
EW	3390	----	----	----	135	135	0.00		
EW	3395	----	----	----	88	88	0.00		
EW	3400	----	----	----	3194	3194	0.00		
EW	3405	----	----	----	41	41	0.00		
EW	3410	----	----	----	527	527	0.00		
EW	3415	----	----	----	38	38	0.00		
EW	3420	----	----	----	604	604	0.00		
EW	3425	----	----	----	69	69	0.00		
EW	3430	----	----	----	907	907	0.00		
EW	3435	----	----	----	111	111	0.00		
EW	3440	----	----	----	320	320	0.00		
EW	3445	----	----	----	73	73	0.00		
EW	3450	----	----	----	1119	1119	0.00		
EW	3455	----	----	----	188	188	0.00		
EW	3460	----	----	----	535	535	0.00		
EW	3465	----	----	----	34	34	0.00		
EW	3470	----	----	----	517	517	0.00		
EW	3475	----	----	----	567	567	0.00		
EW	3480	----	----	----	176	176	0.00		
EW	3485	----	----	----	211	211	0.00		
EW	3490	----	----	----	661	661	0.00		
EW	3495	----	----	----	402	402	0.00		
EW	3500	----	----	----	1020	1020	0.00		
EW	3505	----	----	----	19	19	0.00		
EW	3510	----	----	----	395	395	0.00		
EW	3515	----	----	----	140	140	0.00		
EW	3520	----	----	----	316	316	0.00		
EW	3525	----	----	----	615	615	0.00		
EW	3530	----	----	----	575	575	0.00		
EW	3535	----	----	----	143	143	0.00		
EW	3540	----	----	----	361	361	0.00		
EW	3545	----	----	----	162	162	0.00		
EW	3550	----	----	----	1746	1746	0.00		
EW	3555	----	----	----	251	251	0.00		
EW	3560	----	----	----	426	426	0.00		
EW	3565	----	----	----	415	415	0.00		
EW	3570	----	----	----	519	519	0.00		
EW	3575	----	----	----	356	356	0.00		
EW	3580	----	----	----	1796	1796	0.00		
EW	3585	----	----	----	391	391	0.00		
EW	3590	----	----	----	667	667	0.00		
EW	3595	----	----	----	334	334	0.00		
EW	3600	----	----	----	1568	1568	0.00		
EW	3605	----	----	----	700	700	0.00		
EW	3610	----	----	----	1110	1110	0.00		
EW	3615	----	----	----	1983	1983	0.00		
EW	3620	----	----	----	1647	1647	0.00		
TOTALS		0	0	0	35437	35437	0		
EOM NOV20	E-MINI S&P 500 PUT	EOM E-MINI S&P 500 OPTIONS							
EW	3625	----	----	----	2690	2690	0.00		
EW	3630	----	----	----	2119	2119	0.00		
EW	3635	----	----	----	655	655	0.00		
EW	3640	----	----	----	189	189	0.00		
EW	3645	----	----	----	178	178	0.00		
EW	3650	----	----	----	745	745	0.00		
EW	3655	----	----	----	23	23	0.00		
EW	3660	----	----	----	74	74	0.00		
EW	3665	----	----	----	3	3	0.00		
EW	3670	----	----	----	53	53	0.00		

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PG48	BULLETIN #231@	E-MINI S&P 500 PUT OPTIONS					Mon, Nov 30, 2020	PG48
EW	3675	----	----	----	5	5	0.00	
EW	3680	----	----	----	4	4	0.00	
EW	3685	----	----	----	4	4	0.00	
EW	3690	----	----	----	11	11	0.00	
EW	3700	----	----	----	235	235	0.00	
EW	3705	----	----	----	2	2	0.00	
EW	3710	----	----	----	43	43	0.00	
EW	3720	----	----	----	7	7	0.00	
EW	3725	----	----	----	21	21	0.00	
EW	3730	----	----	----	1	1	0.00	
EW	3740	----	----	----	2	2	0.00	
EW	3750	----	----	----	263	263	0.00	
EW	3760	----	----	----	1	1	0.00	
EW	3780	----	----	----	1	1	0.00	
EW	3790	----	----	----	1	1	0.00	
EW	3800	----	----	----	98	98	0.00	
EW	3805	----	----	----	1	1	0.00	
EW	3820	----	----	----	2	2	0.00	
EW	3830	----	----	----	1	1	0.00	
EW	3840	----	----	----	1	1	0.00	
EW	3850	----	----	----	86	86	0.00	
EW	3880	----	----	----	1	1	0.00	
EW	3900	----	----	----	130	130	0.00	
EW	3950	----	----	----	10	10	0.00	
EW	4600	----	----	----	2	2	0.00	
TOTALS		0	0	0	7662	7662	0	

EOW4	MINI S&P C	EOW4	E-MINI S&P	500 OPTIONS		
NOV20	CALL					
EW4	1700	----	----	----	7	0.00
EW4	2900	----	----	----	1	0.00
EW4	2920	----	----	----	1	0.00
EW4	2925	----	----	----	1	0.00
EW4	2940	----	----	----	1	0.00
EW4	2945	----	----	----	2	0.00
EW4	2960	----	----	----	2	0.00
EW4	2965	----	----	----	1	0.00
EW4	2975	----	----	----	1	0.00
EW4	2985	----	----	----	1	0.00
EW4	2995	----	----	----	1	0.00
EW4	3010	----	----	----	1	0.00
EW4	3015	----	----	----	1	0.00
EW4	3020	----	----	----	5	0.00
EW4	3025	----	----	----	2	0.00
EW4	3030	----	----	----	1	0.00
EW4	3045	----	----	----	5	0.00
EW4	3050	----	----	----	1	0.00
EW4	3055	----	----	----	1	0.00
EW4	3060	----	----	----	1	0.00
EW4	3065	----	----	----	1	0.00
EW4	3070	----	----	----	1	0.00
EW4	3075	----	----	----	1	0.00
EW4	3080	----	----	----	1	0.00
EW4	3085	----	----	----	1	0.00
EW4	3090	----	----	----	2	0.00
EW4	3095	----	----	----	3	0.00
EW4	3100	----	----	----	5	0.00
EW4	3105	----	----	----	3	0.00
EW4	3110	----	----	----	1	0.00
EW4	3115	----	----	----	5	0.00
EW4	3120	----	----	----	3	0.00
EW4	3125	----	----	----	3	0.00
EW4	3130	----	----	----	3	0.00
EW4	3145	----	----	----	2	0.00
EW4	3155	----	----	----	2	0.00
EW4	3160	----	----	----	3	0.00
EW4	3165	----	----	----	1	0.00
EW4	3170	----	----	----	2	0.00
EW4	3180	----	----	----	5	0.00
EW4	3185	----	----	----	1	0.00
EW4	3190	----	----	----	5	0.00
EW4	3195	----	----	----	10	0.00
EW4	3200	----	----	----	4	0.00
EW4	3205	----	----	----	3	0.00
EW4	3210	----	----	----	1	0.00
EW4	3215	----	----	----	2	0.00
EW4	3220	----	----	----	1	0.00
EW4	3225	----	----	----	1	0.00
EW4	3230	----	----	----	5	0.00

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PG48	BULLETIN #231@	E-MINI S&P 500 PUT OPTIONS					Mon, Nov 30, 2020	PG48
EW4	3235	----	----	----	----	4	0.00	
EW4	3240	----	----	----	----	11	0.00	
EW4	3245	----	----	----	----	3	0.00	
EW4	3250	----	----	----	----	136	0.00	
EW4	3255	----	----	----	----	28	0.00	
EW4	3260	----	----	----	----	29	0.00	
EW4	3265	----	----	----	----	80	0.00	
EW4	3270	----	----	----	----	33	0.00	
EW4	3275	----	----	----	----	26	0.00	
EW4	3280	----	----	----	----	29	0.00	
EW4	3285	----	----	----	----	94	0.00	
EW4	3290	----	----	----	----	53	0.00	
EW4	3295	----	----	----	----	126	0.00	
EW4	3300	----	----	----	----	231	0.00	
EW4	3305	----	----	----	----	33	0.00	
EW4	3310	----	----	----	----	58	0.00	
EW4	3315	----	----	----	----	197	0.00	
EW4	3320	----	----	----	----	67	0.00	
EW4	3325	----	----	----	----	65	0.00	
EW4	3330	----	----	----	----	30	0.00	
EW4	3335	----	----	----	----	2	0.00	
EW4	3340	----	----	----	----	27	0.00	
EW4	3345	----	----	----	----	15	0.00	
EW4	3350	----	----	----	----	600	0.00	
EW4	3355	----	----	----	----	74	0.00	
EW4	3360	----	----	----	----	409	0.00	
EW4	3365	----	----	----	----	25	0.00	
EW4	3370	----	----	----	----	250	0.00	
EW4	3375	----	----	----	----	28	0.00	
EW4	3380	----	----	----	----	504	0.00	
EW4	3385	----	----	----	----	58	0.00	
EW4	3390	----	----	----	----	163	0.00	
EW4	3395	----	----	----	----	66	0.00	
EW4	3400	----	----	----	----	356	0.00	
EW4	3405	----	----	----	----	82	0.00	
EW4	3410	----	----	----	----	678	0.00	
EW4	3415	----	----	----	----	36	0.00	
EW4	3420	----	----	----	----	38	0.00	
EW4	3425	----	----	----	----	36	0.00	
EW4	3430	----	----	----	----	155	0.00	
EW4	3435	----	----	----	----	229	0.00	
EW4	3440	----	----	----	----	495	0.00	
EW4	3445	----	----	----	----	18	0.00	
EW4	3450	----	----	----	----	317	0.00	
EW4	3455	----	----	----	----	812	0.00	
EW4	3460	----	----	----	----	309	0.00	
EW4	3465	----	----	----	----	110	0.00	
EW4	3470	----	----	----	----	65	0.00	
EW4	3475	----	----	----	----	53	0.00	
EW4	3480	----	----	----	----	27	0.00	
EW4	3485	----	----	----	----	757	0.00	
EW4	3490	----	----	----	----	54	0.00	
EW4	3495	----	----	----	----	110	0.00	
EW4	3500	----	----	----	----	833	0.00	
EW4	3505	----	----	----	----	515	0.00	
EW4	3510	----	----	----	----	144	0.00	
EW4	3515	----	----	----	----	36	0.00	
EW4	3520	----	----	----	----	81	0.00	
EW4	3525	----	----	----	----	245	0.00	
EW4	3530	----	----	----	----	205	0.00	
EW4	3535	----	----	----	----	144	0.00	
EW4	3540	----	----	----	----	265	0.00	
EW4	3545	----	----	----	----	207	0.00	
EW4	3550	----	----	----	----	725	0.00	
EW4	3555	----	----	----	----	462	0.00	
EW4	3560	----	----	----	----	1324	0.00	
EW4	3565	----	----	----	----	256	0.00	
EW4	3570	----	----	----	----	1342	0.00	
EW4	3575	----	----	----	----	678	0.00	
EW4	3580	----	----	----	----	1439	0.00	
EW4	3585	----	----	----	----	826	0.00	
EW4	3590	----	----	----	----	1239	0.00	
EW4	3595	----	----	----	----	506	0.00	
EW4	3600	----	----	----	----	1631	0.00	
EW4	3605	----	----	----	----	338	0.00	
EW4	3610	----	----	----	----	1312	0.00	
EW4	3615	----	----	----	----	1033	0.00	

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PG48	BULLETIN #231@	E-MINI S&P 500 PUT OPTIONS					Mon, Nov 30, 2020	PG48
EW4	3620	----	----	----	----	886	0.00	
EW4	3625	----	----	----	----	1813	0.00	
EW4	3630	----	----	----	----	1482	0.00	
EW4	3635	----	----	----	----	836	0.00	
TOTALS		0	0	0	0	29212	0	
EOW4	MINI S&P P	EOW4 E-MINI S&P 500 OPTIONS						
NOV20	PUT							
EW4	3640	----	----	----	----	1092	0.00	
EW4	3645	----	----	----	----	102	0.00	
EW4	3650	----	----	----	----	198	0.00	
EW4	3655	----	----	----	----	37	0.00	
EW4	3660	----	----	----	----	80	0.00	
EW4	3665	----	----	----	----	40	0.00	
EW4	3670	----	----	----	----	75	0.00	
EW4	3675	----	----	----	----	17	0.00	
EW4	3680	----	----	----	----	24	0.00	
EW4	3685	----	----	----	----	15	0.00	
EW4	3690	----	----	----	----	7	0.00	
EW4	3695	----	----	----	----	17	0.00	
EW4	3700	----	----	----	----	140	0.00	
EW4	3705	----	----	----	----	7	0.00	
EW4	3710	----	----	----	----	7	0.00	
EW4	3720	----	----	----	----	8	0.00	
EW4	3730	----	----	----	----	3	0.00	
EW4	3740	----	----	----	----	4	0.00	
EW4	3750	----	----	----	----	7	0.00	
EW4	3760	----	----	----	----	2	0.00	
EW4	3770	----	----	----	----	1	0.00	
EW4	4050	----	----	----	----	1	0.00	
TOTALS		0	0	0	0	1884	0	