

2018 DAILY INFORMATION BULLETIN - http://www.cmegroup.com/dailybulletin

CME Group, Inc.

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

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PRELIMINARY

PG48 BULLETIN #199@

E-MINI S&P 500 PUT OPTIONS

Mon, Oct 15, 2018 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 1100 to 2545.

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Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple columns of numerical data representing option prices and volumes.

WK EW-W2 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 option data for various strikes.

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Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple columns of market data for various strike prices and option types.

WK EW-W4 E-MINI S&P PUTS

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

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PG48 BULLETIN #199@ E-MINI S&P 500 PUT OPTIONS Mon, Oct 15, 2018 PG48

Table with columns for contract numbers (e.g., 1650, 1675, 1700), bid/ask prices, and other market data. The table lists various S&P 500 put options with their respective prices and volumes.

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PG48 BULLETIN #199@ E-MINI S&P 500 PUT OPTIONS Mon, Oct 15, 2018 PG48

Main table of E-MINI S&P 500 PUT OPTIONS with columns for price, volume, and other market data.

Table with columns: TOTAL, NOV18, EOW4, MINI, S&P, P, (FUTURES SETT. .00), and various price/volume data.

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.

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Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple columns of numerical data representing option prices and volumes.

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PRELIMINARY

PG48 BULLETIN #199@ E-MINI S&P 500 PUT OPTIONS Mon, Oct 15, 2018 PG48

Table with columns for price, quantity, and various market data points for E-MINI S&P 500 PUT OPTIONS.

Summary table for E-MINI S&P PUT options, including columns for price, quantity, and market data.

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PG48 BULLETIN #199@ E-MINI S&P 500 PUT OPTIONS Mon, Oct 15, 2018 PG48

Table with columns for contract number, price, quantity, and other market data. Rows range from 1875 to 2805.

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PG48 BULLETIN #199@ E-MINI S&P 500 PUT OPTIONS Mon, Oct 15, 2018 PG48

Table with columns for price, bid, ask, volume, and other market data for E-MINI S&P 500 PUT OPTIONS. Includes a summary row for JUN19 and a list of prices from 1225 to 2225.

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Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple rows of market data for S&P 500 put options.

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PG48	BULLETIN #199@	E-MINI S&P 500 PUT OPTIONS										Mon, Oct 15, 2018	PG48
1600	----	10.25B	9.25A	----	10.10+	50	.027	----	----	4	UNCH	11.00B	5.00A
1700	13.00	13.75B	12.25A	----	13.50+	80	.036	----	8	690 -	8	14.50B	6.75A
1725	----	14.75B	13.25A	----	14.40+	80	.038	----	----	45	UNCH	15.50B	7.25A
1750	15.00	15.75B	14.00A	----	15.50+	100	.041	----	1	63 +	1	18.00	7.75A
1775	----	17.00B	15.00A	----	16.50+	90	.044	----	----	12	UNCH	18.00	8.50A
1800	----	18.00B	16.00A	----	17.70+	100	.047	----	----	22	UNCH	19.00	9.00A
1825	----	19.25B	17.25A	----	18.90+	100	.051	----	----	8	UNCH	20.25B	9.75A
1850	----	20.75B	18.25A	----	20.20+	110	.054	----	----	38	UNCH	21.50B	10.50A
1875	----	22.00B	19.50A	----	21.60+	120	.058	----	----	13	UNCH	23.00B	11.25A
1900	22.50	23.50B	21.00A	----	23.00+	120	.062	----	10	66 +	10	26.75	12.00A
1925	----	25.00B	22.25A	----	24.60+	130	.066	----	----	166	UNCH	26.50	12.75A
1950	----	26.75B	23.75A	----	26.20+	130	.071	----	----	1	UNCH	27.75B	13.75
2000	----	30.25B	27.00A	----	29.70+	150	.080	----	----	33	UNCH	31.75B	15.50A
2025	----	32.00B	28.75A	----	31.50+	150	.085	----	----	33	UNCH	33.75B	16.75A
2040	----	33.25B	29.75A	----	32.70+	170	.089	----	----	7	UNCH	35.00B	17.25A
2050	----	34.00B	30.50A	----	33.50+	170	.091	----	----	35	UNCH	35.75B	17.75A
2075	----	36.25B	32.50A	----	35.50+	190	.097	----	----	11	UNCH	38.00B	19.00A
2090	----	37.50B	33.75A	----	36.80+	200	.100	----	----	2	UNCH	39.50B	19.75A
2100	----	38.50B	34.50A	----	37.70+	210	.103	----	----	957	UNCH	41.00	20.25A
2120	----	40.25B	36.25A	----	39.50+	210	.108	----	----	300	UNCH	42.25B	21.25A
2125	----	40.75B	36.75A	----	40.00+	210	.109	----	----	24	UNCH	42.75B	21.50A
2130	----	41.25B	37.00A	----	40.50+	210	.111	----	----	900	UNCH	43.25B	21.75A
2200	48.25	48.75B	43.75A	----	47.80+	260	.131	----	67	337 +	67	51.00B	26.00A
2225	----	51.50B	46.50A	----	50.60+	270	.139	----	----	4	UNCH	54.25B	27.50A
2240	----	53.50B	48.25A	----	52.40+	280	.144	----	----	61	UNCH	56.00B	28.50A
2250	----	54.75B	49.25A	----	53.60+	280	.147	----	----	9	UNCH	57.25	29.25A
2275	----	58.00B	52.25A	----	56.80+	310	.156	----	----	5	UNCH	60.75B	31.00A
2280	----	58.50B	52.75A	----	57.40+	310	.158	----	----	1	UNCH	61.25B	31.00
2300	57.75	61.25B	55.25A	----	60.00+	320	.165	----	200	407 +	200	64.25B	32.75A
2310	----	62.75B	56.50A	----	61.40+	330	.169	----	----	5	UNCH	65.50B	33.75A
2320	----	64.25B	57.75A	----	62.80+	340	.173	----	----	401	UNCH	67.00B	34.50A
2330	59.50	65.50B	59.25A	----	64.20+	NEW	.177	----	1	1 +	1	68.50B	35.25A
2350	----	68.75B	61.75A	----	67.10+	360	.185	----	----	101	UNCH	71.75B	37.00A
2360	----	70.25B	63.25A	----	68.60+	370	.189	----	----	44	UNCH	73.25B	38.00A
2375	----	72.50B	65.50A	----	70.90+	380	.196	----	----	23	UNCH	75.75B	39.25A
2380	----	73.50B	66.25A	----	71.70+	380	.198	----	----	10	UNCH	76.50B	39.75A
2400	----	76.75B	69.25A	----	75.00+	400	.207	----	----	1153	UNCH	80.00	41.50A
2450	----	85.75B	77.25A	----	83.70+	420	.232	----	----	1886	UNCH	89.25B	46.75A
2460	----	87.50B	79.00A	----	85.60+	430	.237	----	----	81	UNCH	92.75	48.00A
2470	82.50	89.50B	80.75A	----	87.50+	NEW	.242	----	7	7 +	7	93.25B	49.00A
2475	83.50	90.50B	81.75A	----	88.50+	NEW	.245	----	5	5 +	5	94.25B	49.50A
2480	87.50	91.50B	82.75A	----	89.50+	NEW	.248	----	6	6 +	6	95.25B	50.25A
2500	94.75	95.50B	86.25A	----	93.50+	480	.259	----	3	1974	UNCH	99.50B	52.50A
2510	----	97.75B	88.25A	----	95.50+	490	.264	----	----	103	UNCH	101.75B	53.75A
2525	----	101.00B	91.25A	----	98.70+	510	.273	----	----	100	UNCH	105.00B	55.75A
2550	----	106.50B	96.50A	----	104.20+	560	.288	----	----	586	UNCH	110.75B	59.00A
2560	----	109.00B	98.50A	----	106.50+	580	.295	----	----	1	UNCH	113.25B	60.25A
2570	----	111.25B	100.75A	----	108.80+	590	.301	----	----	1	UNCH	115.75B	61.75A
2600	----	118.75B	107.75A	----	116.20+	650	.321	----	----	2403	UNCH	128.00	65.75
2625	----	125.50B	113.75A	----	122.70+	700	.339	----	----	614	UNCH	130.25B	70.00A
2650	----	132.50B	120.25A	----	129.60+	760	.358	----	----	10	UNCH	145.00	74.00A
2675	----	139.75B	127.00A	----	136.90+	830	.377	----	1	11 +	1	144.75B	78.50A
2680	----	141.25B	128.50A	----	138.40+	840	.381	----	----	1	UNCH	146.25B	79.25A
2690	----	144.50B	131.25A	----	141.40+	860	.389	----	----	44	UNCH	149.50B	81.25A
2700	147.50	147.50	134.25A	----	144.50+	890	.397	----	150	1281 +	150	152.75B	83.00
2710	----	150.75B	137.25A	----	147.70+	910	.406	----	----	103	UNCH	156.00B	85.00A
2725	----	155.75B	141.75A	----	152.50+	940	.418	----	----	517	UNCH	161.00B	87.75A
2740	----	161.00B	146.50A	----	157.50+	980	.432	----	----	19	UNCH	166.25B	91.00A
2750	----	164.50B	149.75A	----	160.90+	990	.441	----	----	242	UNCH	169.75B	93.00
2770	----	171.75B	156.50A	----	167.90+	1020	.459	----	----	3	UNCH	177.25B	97.25A
2775	----	173.50B	158.25A	----	169.70+	1030	.464	----	1	7	UNCH	179.00B	98.50A
2780	----	175.50B	160.00A	----	171.60+	1040	.468	----	----	2	UNCH	181.00B	99.50
2800	----	183.25B	167.25A	----	179.20+	1080	.488	----	----	3292	UNCH	189.00B	104.25A
2820	----	191.25B	174.75A	----	187.20+	1120	.507	----	1	301 +	1	197.00B	109.00A
2825	----	193.25B	176.75A	----	189.30+	1130	.512	----	----	4	UNCH	199.25B	110.25A
2850	----	204.00B	186.75A	----	200.00+	1180	.538	----	----	280	UNCH	209.75B	116.75A
2870	----	213.25B	195.25A	----	209.10+	1230	.559	----	----	5	UNCH	219.00B	122.00A
2890	----	222.75B	204.25A	----	218.60+	1270	.580	----	----	25	UNCH	228.75B	128.00A
2900	212.50	227.75B	208.75A	----	223.50+	1290	.591	----	2	641 +	1	235.00	130.75A
2925	----	240.50B	221.00A	----	236.20+	1320	.618	----	----	2	UNCH	246.50B	138.75A
2930	----	243.25B	223.50A	----	238.90+	1340	.624	----	----	150	UNCH	249.25B	140.25A
2940	----	248.75B	228.50A	----	244.20+	1350	.635	----	----	75	UNCH	254.50B	143.50A
2950	----	254.25B	233.75A	----	249.70+	1360	.646	----	----	282	UNCH	260.25B	147.00A
2970	----	266.00B	244.75A	----	261.10+	1390	.669	----	----	100	UNCH	271.75B	154.00A
2975	----	269.00B	247.50A	----	264.00+	1400	.674	----	----	40	UNCH	274.75B	155.75A
3000	----	284.25B	262.00A	----	279.10+	1430	.702	----	----	126	UNCH	290.25B	165.25A
3010	----	290.50B	268.00A	----	285.30+	1430	.713	----	----	2	UNCH	295.00B	169.25A
3020	----	297.00B	274.25A	----	291.80+	1450	.724	----	----	115	UNCH	301.50B	173.50A
3025	----	300.50B	277.75A	----	295.00+	1450	.729	----	----	44	UNCH	304.75B	175.50A
3030	----	303.75B	280.75A	----	298.30+	1450	.735	----	----	22	UNCH	308.00B	177.75A
3050	----	317.50B	294.00A	----	311.90+	1490	.756	----	----	53	UNCH	321.50B	186.50A
3070	----	332.00B	307.75A	----	326.20+	1530	.776	----	----	74	UNCH	335.75B	195.75A
3075	----	335.50B	311.25A	----	329.80+	1540	.781	----	----	40	UNCH	339.50B	198.25A
3090	----	346.75B	322.25A	----	340.90+	1560	.796	----	----	46	UNCH	350.50B	205.50A
3100	----	354.50B	329.50A	----	348.50+	1580	.805	----	----	89	UNCH	358.00B	210.75A
3110	----	#357.25B	338.75A	----	356.30+	1610	.815	----	----	6	UNCH	357.25B	216.75A
3130	----	#373.00B	354.50A	----	372.10+	1640	.832	----	----	1	UNCH	373.00B	227.75A
3150	----	#389.50B	370.50A	----	388.40+	1670	.849	----	----	6	UNCH	389.50B	239.50A
TOTAL										788		22546 +	649
EOM EMINI S&P P													
OCT18													
1100	----	----	----	----	CAB	----	----	----	----	140	UNCH	.40B	.45A
1125	----	----	----	----	CAB	----	----	----	----	208	UNCH	.45B	.20A
1150	----	----	----	----	CAB	----	----	----	----	100	UNCH	.90B	.10A
1175	----	----	----	----		.05+	5	.000	----	3	UNCH	.95B	.10A
1200	----	----	----	----		.05	UNCH	.000	----	105	UNCH	.65B	.10A
1250	----	----	----	----		.05	UNCH	.000	----	5	UNCH	1.15B	.15A
1300	----	----	----	----		.05	UNCH	.000	----	1161	UNCH	1.35B	.15
1325	----	----	----	----		.05	UNCH	.000	----	140	UNCH	1.45B	.10A
1350	----	----	----	----		.05	UNCH	.000	----	58	UNCH	1.60B	.10A
1375	----	----	----	----		.05	UNCH	.000	----				



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PG48	BULLETIN #199@	E-MINI S&P 500 PUT OPTIONS										Mon, Oct 15, 2018		PG48
1920	----	----	.35A	----	.40-	15	.002	----	----	773	UNCH	11.25B	.20A	
1925	----	----	.35A	----	.40-	15	.002	----	----	320	UNCH	11.25B	.20A	
1930	----	----	.35A	----	.40-	15	.002	----	----	415	UNCH	11.50B	.15A	
1940	----	----	.35A	----	.40-	15	.002	----	----	200	UNCH	12.00B	.10	
1950	----	----	.35A	----	.40-	15	.002	----	5	1423	UNCH	12.50B	.15A	
1960	0.55	.55	.35A	----	.45-	15	.003	----	10	341 +	10	13.00B	.15A	
1970	----	----	.40A	----	.45-	15	.003	----	----	426	UNCH	13.25B	.15	
1975	----	----	.40A	----	.45-	15	.003	----	----	579	UNCH	13.50B	.15A	
1980	----	----	.40A	----	.45-	15	.003	----	414 +	414 +	285	13.75B	.15A	
1990	0.35	.40B	.35	----	.45-	15	.003	----	50	539 +	50	14.25B	.15	
2000	0.60	.60	.40	----	.50-	15	.003	----	160	1127 -	90	14.75B	.10	
2010	----	----	.40A	----	.50-	15	.003	----	----	789	UNCH	15.50B	.10	
2020	----	----	.45A	----	.50-	15	.003	----	----	370	UNCH	16.00B	.15	
2025	0.60	.60	.45A	----	.50-	15	.003	----	36	5100 -	36	16.25B	.15A	
2030	0.45	.50B	.45	----	.55-	15	.004	----	26	860	UNCH	16.50B	.20A	
2040	----	----	.45A	----	.55-	15	.004	----	----	919	UNCH	17.00B	.20A	
2050	----	----	.45A	----	.55-	15	.004	----	----	643	UNCH	17.75B	.20	
2060	0.50	.55B	.50	----	.60-	15	.004	----	25	230 +	6	18.25B	.20	
2070	----	----	.50A	----	.60-	15	.004	----	----	675	UNCH	19.00B	.20	
2075	----	----	.50A	----	.65-	10	.004	----	----	1309	UNCH	19.25B	.15A	
2080	----	----	.50A	----	.65-	15	.005	----	----	1220	UNCH	19.75B	.20A	
2090	----	----	.50A	----	.70-	10	.005	----	----	576	UNCH	20.25B	.15	
2100	0.70	.70	.55A	----	.70-	15	.005	----	102	3986	UNCH	21.00B	.15	
2110	----	----	.55A	----	.75-	10	.005	----	----	910	UNCH	21.75B	.20A	
2120	----	----	.60A	----	.80-	10	.006	----	----	367	UNCH	22.75B	.20A	
2125	----	----	.60A	----	.80-	10	.006	----	----	1759	UNCH	23.00B	.20A	
2130	0.60	.95B	.60	----	.80-	10	.006	----	1	310 +	1	23.50B	.20A	
2140	----	1.00B	.65A	----	.85-	10	.006	----	----	654	UNCH	24.25B	.25	
2150	1.10	1.10	.65A	----	.90-	10	.007	----	49	975 -	12	25.00B	.20	
2160	----	1.05B	.65A	----	.90-	10	.007	----	----	574	UNCH	26.00B	.25A	
2170	----	1.10B	.70A	----	.95-	10	.007	----	----	586	UNCH	27.00B	.25A	
2175	----	1.15B	.70A	----	.95-	10	.008	----	----	1278	UNCH	27.25B	.25	
2180	----	1.20B	.75A	----	1.00-	10	.008	----	----	846	UNCH	27.75B	.25A	
2190	----	1.25B	.75A	----	1.05-	5	.008	----	----	863	UNCH	28.75B	.30A	
2200	1.20	1.30B	.80	----	1.05-	10	.009	----	528	1782 -	3	29.75B	.25	
2210	1.00	1.35B	.80A	----	1.10-	10	.009	----	25	1007 -	25	30.75B	.30A	
2220	0.95	1.40B	.80	----	1.15-	10	.010	----	125	1140 +	29	32.00B	.30	
2225	1.15	1.45B	.85A	----	1.15-	10	.010	----	47	3977 +	42	32.50B	.30	
2230	1.00	1.50B	.85A	----	1.20-	10	.010	----	22	497	UNCH	33.00B	.30	
2240	----	1.55B	.90A	----	1.25-	10	.011	----	----	1167	UNCH	34.25B	.30	
2250	1.20	1.65B	.95A	----	1.30-	10	.011	----	201	2237 +	61	35.25B	.35	
2260	1.30	1.75B	.95A	----	1.35-	10	.012	----	7	1525 -	7	36.50B	.35	
2270	1.35	1.85B	1.00A	----	1.45-	10	.013	----	10	1939 -	10	37.75B	.35	
2275	1.40	1.90B	1.05A	----	1.45-	10	.013	----	7	1022	UNCH	38.50B	.35	
2280	1.45	1.95B	1.05A	----	1.50-	10	.014	----	21	787 -	21	39.25B	.40A	
2290	1.45	2.05B	1.10A	----	1.60-	10	.015	----	6	392	UNCH	40.50B	.40	
2300	1.55	2.15B	1.10	----	1.70-	5	.016	----	61	1904 -	29	42.00B	.40	
2310	1.50	2.25B	1.20A	----	1.75-	10	.016	----	5	1237	UNCH	43.25B	.45	
2320	2.05	2.40B	1.25A	----	1.90-	5	.018	----	38	1003 -	29	44.75B	.45A	
2325	----	2.45B	1.30A	----	1.95-	5	.018	----	----	1138	UNCH	45.50B	.45	
2330	----	2.55B	1.30A	----	2.00-	5	.019	----	----	961	UNCH	46.50B	.50A	
2340	2.00	2.70B	1.35A	----	2.10-	5	.020	----	4	745 -	3	48.00B	.50A	
2350	1.80	2.85B	1.45A	----	2.20-	5	.021	----	177	1429 +	86	49.75B	.50	
2360	----	3.00B	1.50A	----	2.35-	5	.023	----	----	706	UNCH	51.25B	.55A	
2370	----	3.20B	1.60A	----	2.50-	5	.025	----	----	412	UNCH	53.00B	.55A	
2375	----	3.30B	1.60A	----	2.55-	5	.025	----	6532	2902 -	2430	54.00B	.60	
2380	1.85	3.40B	1.65A	----	2.65	UNCH	.027	----	11	1521 -	11	55.00B	.60	
2390	----	3.65B	1.75A	----	2.80-	5	.028	----	----	1194	UNCH	56.75B	.60	
2395	----	3.75B	*1.80A	----	2.85-	5	.029	----	----	1	UNCH	5.25B	1.80A	
2400	2.90	3.85B	1.85A	----	2.95-	5	.030	----	1142	9296 +	303	58.75B	.60	
2405	----	4.00B	*1.90A	----	3.05-	5	.031	----	----	14	UNCH	6.50	1.90A	
2410	----	4.15B	1.95A	----	3.15-	5	.033	----	75	1104 +	65	60.75B	.70	
2415	----	4.25B	*2.00A	----	3.25	UNCH	.034	----	----	7	UNCH	7.25	2.00A	
2420	2.80	4.40B	2.10A	----	3.35	UNCH	.035	----	18	1073 -	14	63.00B	.70	
2425	3.95	4.55B	2.15A	----	3.45-	5	.036	----	1	1506 +	1	64.00B	.70	
2430	----	4.70B	2.20A	----	3.55-	5	.037	----	----	512	UNCH	65.00B	.75	
2435	----	4.85B	2.30A	----	3.65-	5	.039	----	----	91	UNCH	34.00B	.75A	
2440	2.95	5.00B	2.35A	----	3.80	UNCH	.040	----	10	1000 +	10	67.25B	.80A	
2445	3.55	5.00B	2.45A	----	3.90-	5	.042	----	301	784 +	300	35.25B	.80	
2450	4.10	5.50B	2.50A	----	4.05	UNCH	.043	----	260	2802 +	102	69.50B	.80	
2455	4.70	5.50B	2.60A	----	4.20	UNCH	.045	----	24	132	UNCH	36.50B	.85	
2460	3.40	5.75B	2.70A	----	4.35	UNCH	.047	----	116	1871 +	24	72.00B	.85A	
2465	5.75	6.00B	2.75A	----	4.50	UNCH	.049	----	54	1317 -	21	38.00B	.85	
2470	5.50	6.25B	2.85A	----	4.65	UNCH	.051	----	59	1380 +	43	74.50B	.90	
2475	5.75	6.50B	2.95A	----	4.85+	5	.053	----	6584	6249 +	2959	75.75B	.90	
2480	4.75	6.75B	3.05A	----	5.00+	5	.055	----	305	4786 +	254	77.00B	.95	
2485	5.50	6.75B	3.15A	----	5.20+	10	.057	----	30	692	UNCH	42.00B	.95A	
2490	5.75	7.00B	3.25A	----	5.40+	10	.059	----	24	639	UNCH	79.50B	1.00A	
2495	6.25	7.25B	3.35A	----	5.60+	10	.062	----	65	725 +	6	43.50B	1.00A	
2500	6.00	7.50B	3.50A	----	5.80+	10	.064	----	291	3940 +	184	82.25B	1.05	
2505	5.75	7.75B	3.60A	----	6.00+	10	.067	----	18	1492	UNCH	45.25B	1.05A	
2510	6.00	8.25B	3.75A	----	6.20+	10	.069	----	580	652 +	491	85.25B	1.10	
2515	4.70	8.50B	3.85A	----	6.50+	20	.073	----	4	373 +	4	46.75B	1.10A	
2520	6.50	8.75B	4.00A	----	6.70+	10	.075	----	11	690 +	11	88.00B	1.15A	
2525	7.50	9.00B	4.15A	----	7.00+	20	.079	----	393	942 +	245	89.50B	1.15A	
2530	7.75	9.50	4.30A	----	7.20+	20	.081	----	95	864 +	12	91.00B	1.20	
2535	6.00	9.75B	4.50A	----	7.50+	20	.085	----	8	556 +	7	50.25B	1.25	
2540	7.75	10.00B	4.65A	----	7.80+	20	.088	----	52	286 -	25	94.25B	1.25A	
2545	7.75	10.50B	4.85A	----	8.10+	20	.092	----	8	442 +	3	52.00B	1.30	
2550	9.25	11.00	5.25	----	8.40+	30	.096	----	1286	5666 -	181	97.50B	1.30A	
2555	8.25	11.25B	5.25A	----	8.70+	20	.100	----	134	485 +	42	54.00B	1.35A	
2560	9.25	11.75B	5.50A	----	9.00+	20	.103	----	263	937 +	75	100.75B	1.40	
2565	10.75	12.25B	5.75A	----	9.30+	20	.107	----	116	438 +	105	56.00B	1.40A	
2570	10.00	12.50B	6.00A	----	9.70+	20	.112	----	22	1321 +	5	104.25B	1.45A	
2575	11.25	13.00B	6.25A	----	10.10+	30	.117	----	150	1861 -	12	106.00B	1.45	
2580	----	13.50B	6.50A	----	10.50+	30	.122	----	604	2092 +	580	107.75B	1.50A	
2585	11.00	14.00B	6.75A	----	10.90+	30	.127	----	25	577 -	17	60.00B	1.55A	
2590	12.25	14.50B	7.00A	----	11.40+	40	.133	----	49	1035 +	25	110.75B	1.60A	
2595	13.00	15.25B	7.25A	----	11.80+	40	.138	----	106	725 -	24	62.25B	1.60A	
2600	13.75	15.75B	7.75	----	12.30+	40	.144	----	1631	7458 +	270	114.50B	1.65A	
2605	12.00	16.25B	8.00A	----	12.90+	50	.151	----	148	878 +	120	64.50B	1.70A	
2610	13.00	17.00B	8.25A	----	13.40+	50	.157	----	22	872	UNCH	118.50B	1.75A	
2615	12.50	17.75B	8.75A	----	14.00+	60	.164	----	53	611 +	1			



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



PRELIMINARY

Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple columns of numerical data representing option prices and volumes.

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PRELIMINARY

PG48	BULLETIN #199@			E-MINI S&P 500 PUT OPTIONS						Mon, Oct 15, 2018				PG48
2260	5.00	6.00B	3.70A	----	5.00	UNCH	.036	----	3	297 -	1	24.50B	1.80A	
2270	5.50	6.25B	3.85A	----	5.20+	10	.038	----	276	386 +	155	25.50B	1.85A	
2275	4.50	6.25B	3.95A	----	5.40	UNCH	.039	----	10	5765 -	10	25.75B	1.85A	
2280	4.75	6.50B	4.05A	----	5.50	UNCH	.040	----	215	646 +	191	26.25B	1.90A	
2290	4.75	6.75B	4.20A	----	5.80	UNCH	.042	----	179	318 +	64	27.00B	1.95A	
2300	5.75	7.00B	4.35	----	6.10+	10	.045	----	475	2661 +	284	28.00B	2.00	
2310	5.50	7.50B	4.60A	----	6.40+	10	.047	----	11	364	UNCH	28.75B	2.10	
2320	7.25	7.75B	4.80A	----	6.60+	10	.049	----	192	441	UNCH	29.75B	2.15A	
2325	----	8.00B	4.90A	----	6.80+	10	.050	----	180	180	UNCH	30.25B	2.20A	
2330	----	8.25B	5.00A	----	6.90+	10	.051	----	5	636 +	5	30.75B	2.25A	
2340	8.00	8.50B	5.25A	----	7.20+	10	.054	----	13	234	UNCH	31.75B	2.30A	
2345	----	8.75B	*5.50A	----	7.30+	10	.055	----	70	70	UNCH	11.50	5.50A	
2350	8.00	9.00B	5.50A	----	7.50+	10	.057	----	218	1583 +	12	32.75B	2.40A	
2355	8.75	#9.25B	*5.75A	----	7.70+	NEW	.058	----	13	13 +	13	9.25B	5.75A	
2360	8.25	9.50B	5.75A	----	7.90+	10	.060	----	41	506 +	39	34.00B	2.50A	
2365	6.50	9.50B	*6.00A	----	8.10+	10	.061	----	1	17 +	1	11.50B	6.00A	
2370	7.25	9.75B	6.00A	----	8.40+	30	.063	----	11	355	UNCH	35.00B	2.55A	
2375	9.50	10.00B	6.25A	----	8.60+	30	.065	----	37	587 +	21	35.50B	2.60A	
2380	----	10.25B	6.50A	----	8.80+	30	.067	----	434	UNCH	36.25B	2.65A		
2385	8.50	10.50B	*6.50A	----	9.00+	30	.068	----	9	9 +	4	12.75B	6.50A	
2390	9.00	10.75B	6.75A	----	9.20+	30	.070	----	19	617 -	9	37.25B	2.75A	
2395	9.25	11.00B	*7.00A	----	9.50+	40	.072	----	89	95 +	89	13.25B	7.00A	
2400	9.50	11.25B	7.00	----	9.70+	40	.074	----	27	2815 -	20	38.50B	2.85A	
2405	8.25	11.50B	*7.25A	----	9.90+	30	.076	----	43	167 +	43	15.75	7.25A	
2410	10.00	11.75B	7.25A	----	10.10+	30	.078	----	111	812 +	23	39.75B	2.95A	
2415	8.75	12.25B	*7.50A	----	10.40+	40	.080	----	17	17 +	5	14.50B	7.50A	
2420	9.00	12.50B	7.75A	----	10.60+	30	.082	----	418	756 +	191	41.25B	3.05A	
2425	----	12.75B	8.00A	----	10.90+	40	.084	----	262	685 +	183	41.75B	3.15A	
2430	8.00	13.00B	8.00	----	11.10+	30	.086	----	6	712	UNCH	42.50B	3.20A	
2435	----	13.25B	8.25A	----	11.40+	40	.088	----	194	UNCH	42.25B	3.25A		
2440	11.50	13.75B	8.50A	----	11.70+	40	.091	----	5	948 -	5	44.00B	3.30A	
2445	11.75	14.00B	8.75A	----	12.00+	50	.093	----	11	323 +	11	43.50B	3.35A	
2450	13.00	14.25B	9.00A	----	12.40+	60	.096	----	40	1677 -	22	45.50B	3.40A	
2455	11.75	14.75B	9.25A	----	12.70+	60	.099	----	43	1003 +	37	45.00B	3.50A	
2460	13.00	15.00B	9.50A	----	13.10+	70	.102	----	18	409 +	17	47.00B	3.55A	
2465	13.50	15.50B	9.75A	----	13.40+	70	.104	----	14	784 -	1	46.50B	3.60A	
2470	14.25	15.75B	10.00A	----	13.80+	80	.107	----	12	633 +	2	48.50B	3.70A	
2475	----	16.25B	10.25A	----	14.10+	80	.110	----	10	1195	UNCH	49.25B	3.75A	
2480	14.75	16.75B	10.50A	----	14.40+	80	.113	----	1	488 +	1	50.00B	3.85A	
2485	----	17.00B	10.75A	----	14.80+	90	.116	----	225	UNCH	51.00B	3.90A		
2490	----	17.50B	11.00A	----	15.10+	80	.119	----	155	UNCH	51.75B	4.00A		
2495	15.25	18.00B	11.25A	----	15.50+	80	.122	----	14	237 +	7	52.50B	4.05A	
2500	16.75	18.25B	11.75A	----	15.90+	80	.125	----	321	3239 +	97	53.50B	4.15A	
2505	14.00	18.75B	12.00A	----	16.40+	90	.129	----	97	490 +	1	54.25B	4.20A	
2510	----	19.25B	12.25A	----	16.80+	80	.132	----	1	402 -	1	55.25B	4.30A	
2515	16.50	19.75B	12.50A	----	17.30+	90	.136	----	25	544 +	5	56.25B	4.40A	
2520	14.25	20.25B	13.00A	----	17.80+	110	.140	----	6	454 -	2	57.00B	4.50A	
2525	14.50	20.75B	13.25A	----	18.20+	110	.144	----	37	492 -	15	58.00B	4.55A	
2530	----	21.25B	13.75A	----	18.70+	110	.148	----	411	UNCH	59.00B	4.65A		
2535	18.00	22.00B	14.00A	----	19.20+	120	.152	----	11	64	UNCH	60.00B	4.75A	
2540	16.75	22.50B	14.50A	----	19.80+	140	.156	----	8	447 -	1	61.00B	4.85A	
2545	22.25	23.00B	14.75A	----	20.30+	140	.161	----	52	462	UNCH	62.00B	4.95A	
2550	----	23.75B	15.25A	----	20.90+	150	.165	----	1	1888	UNCH	63.00B	5.25A	
2555	----	24.25B	15.75A	----	21.40+	140	.170	----	71	UNCH	64.00B	5.25A		
2560	20.00	25.00B	16.25A	----	22.00+	150	.174	----	250	300 +	174	65.00B	5.25A	
2565	18.50	25.50B	16.75A	----	22.60+	150	.179	----	70	217	UNCH	66.25B	5.50A	
2570	19.75	26.25B	17.00A	----	23.20+	160	.184	----	7	401 +	7	67.25B	5.50A	
2575	20.00	27.00B	17.50A	----	23.80+	160	.189	----	9	951 +	9	68.25B	5.75A	
2580	----	27.75B	18.00A	----	24.50+	170	.195	----	55	1274 +	5	69.50B	5.75A	
2585	23.75	28.50B	18.50A	----	25.20+	180	.200	----	1	573 +	1	70.75B	6.00A	
2590	----	29.25B	19.25A	----	25.90+	180	.206	----	5	375 +	1	71.75B	6.00A	
2595	----	30.00B	19.75A	----	26.60+	190	.211	----	231	UNCH	73.00B	6.25A		
2600	27.50	30.75B	20.25A	----	27.40+	200	.217	----	457	4725 +	245	74.25B	6.25	
2605	----	31.50B	20.75A	----	28.20+	220	.224	----	3	687	UNCH	75.50B	6.50A	
2610	24.00	32.50B	21.50A	----	29.00+	230	.230	----	29	1536 +	9	76.75B	6.75A	
2615	27.50	33.25B	22.00A	----	29.80+	240	.236	----	98	607 -	10	78.00B	6.75A	
2620	----	34.25B	22.75A	----	30.70+	250	.243	----	164	UNCH	79.25B	7.00A		
2625	26.50	35.25B	23.50A	----	31.60+	260	.250	----	52	1856 +	43	80.50B	7.00A	
2630	29.25	36.00B	24.25A	----	32.50+	270	.257	----	80	1303 -	43	82.00B	7.25A	
2635	----	37.00B	24.75A	----	33.40+	280	.264	----	649	UNCH	83.25B	7.50A		
2640	28.25	38.00B	25.50A	----	34.40+	290	.271	----	24	1612 -	4	84.75B	7.50A	
2645	32.75	39.25B	26.25A	----	35.30+	290	.279	----	5	490 +	5	86.00B	7.75A	
2650	38.00	40.25B	27.25A	----	36.30+	300	.287	----	345	8332 +	8	87.50B	8.00A	
2655	----	41.25B	28.00A	----	37.30+	310	.294	----	387	UNCH	89.00B	8.25A		
2660	----	42.50B	28.75A	----	38.40+	320	.303	----	4	1695	UNCH	90.50B	8.25A	
2665	38.00	43.75B	29.75A	----	39.50+	340	.311	----	154	395 +	108	92.00B	8.50A	
2670	----	44.75B	30.50A	----	40.60+	350	.320	----	2	1041 -	2	93.75	8.75A	
2675	33.50	46.00B	31.50A	----	41.80+	360	.328	----	146	1236 +	59	95.25	9.00A	
2680	36.75	47.25B	32.50A	----	43.00+	370	.337	----	20	3601 -	5	96.75B	9.00A	
2685	----	48.75B	33.50A	----	44.30+	390	.347	----	278	UNCH	98.50B	9.25A		
2690	41.00	50.00B	34.50A	----	45.60+	400	.356	----	2	655	UNCH	100.00B	9.50A	
2695	----	51.50B	35.50A	----	46.90+	410	.366	----	304	UNCH	101.75B	9.75A		
2700	51.75	53.00B	36.75A	----	48.30+	430	.376	----	888	6643 +	399	103.50B	10.00A	
2705	----	54.25B	37.75A	----	49.70+	440	.386	----	75	UNCH	105.25B	10.25A		
2710	39.75	56.00B	39.00A	----	51.10+	450	.397	----	15	360 -	6	107.00B	10.50A	
2715	41.50	57.50B	40.25A	----	52.60+	470	.408	----	8	763 -	8	109.00B	10.75A	
2720	58.50	59.25	41.50A	----	54.10+	490	.419	----	76	281 -	5	110.75B	11.00A	
2725	60.50	60.75B	42.75A	----	55.70+	500	.430	----	120	1166 +	84	112.75B	11.50A	
2730	53.75	62.25B	44.00A	----	57.30+	520	.441	----	40	422 -	30	114.50B	11.75A	
2735	----	64.00B	45.50A	----	59.00+	530	.453	----	348	UNCH	116.25B	12.00A		
2740	55.25	65.75B	47.00A	----	60.70+	540	.465	----	18	435 +	5	118.25B	12.25A	
2745	64.50	67.75B	48.50A	----	62.40+	550	.478	----	2	662	UNCH	120.25B	12.75A	
2750	64.00	69.50B	50.00A	----	64.30+	570	.490	----	3243	24448 -	1793	122.50B	13.00A	
2755	67.75	71.50B	51.50A	----	66.20+	590	.503	----	1	723 +	1	124.50B	13.25A	
2760	66.50	73.75B	53.25A	----	68.20+	620	.516	----	154	440 +	77	126.75B	13.75A	
2765	62.25	75.75B	54.75A	----	70.20+	640	.530	----	193	430 +	128	129.00B	14.00A	
2770	----	78.00B	56.75A	----	72.30+	670								



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CME Group, Inc.

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PRELIMINARY

PG48	BULLETIN #199@	E-MINI S&P 500 PUT OPTIONS										Mon, Oct 15, 2018		PG48
2955	----	209.00B	180.75A	----	207.30+	1820	.959	----	----	21	UNCH	255.00B	50.75A	
2960	----	213.75B	185.50A	----	212.10+	1830	.962	----	----	36	UNCH	259.50B	53.00A	
2965	----	218.50B	190.50A	----	216.90+	1830	.965	----	----	123	UNCH	263.75B	55.00	
2970	----	223.25B	195.25A	----	221.70+	1840	.968	----	----	47	UNCH	268.25B	57.50A	
2975	----	228.00B	200.00A	----	226.60+	1850	.971	----	----	68	UNCH	272.75B	60.00A	
2980	----	233.00B	204.75A	----	231.50+	1860	.973	----	----	328	UNCH	277.50B	62.75A	
2985	----	237.75B	209.75A	----	236.30+	1860	.975	----	----	2	UNCH	281.75B	65.50A	
2990	----	242.75B	214.50A	----	241.20+	1860	.977	----	----	34	UNCH	286.50B	68.25A	
2995	----	247.50B	219.50A	----	246.20+	1880	.978	----	----	229	UNCH	291.00B	71.25A	
3000	----	252.50B	224.25A	----	251.10+	1880	.980	----	----	13	UNCH	295.75B	75.25A	
3005	----	----	----	----	256.00+	1880	.982	----	----	2	UNCH	295.00B	78.75A	
3010	----	----	----	----	260.90+	1880	.983	----	----	16	UNCH	208.75B	82.25A	
3015	----	----	----	----	265.90+	1890	.984	----	----	1	UNCH	213.25B	85.75A	
3050	----	----	----	----	300.50+	1910	.990	----	----	25	UNCH	337.75B	113.75A	
3200	----	----	----	----	449.70+	1920	.997	----	----	1	UNCH	323.25B	266.25A	
TOTAL										14257		186358	+	1807
DEC18	EOM	EMINI	S&P	P										
1175	0.35	.35	*.35	----	.35+	NEW	.001	----	320	320	+	320	.60B	.35
1200	0.30	.30	*.30	----	.35	UNCH	.001	----	1	1	+	1	.65B	.30
1250	----	----	----	----	.40	UNCH	.001	----	----	256	UNCH	.75	.45A	
1275	0.40	.40	.40	----	.45	UNCH	.001	----	1	3	+	1	.80B	.40A
1300	0.45	.50B	.45	----	.50+	NEW	.001	----	1	1	+	1	.85B	.30A
1325	----	----	----	----	.50	UNCH	.002	----	----	240	UNCH	.90B	.35A	
1350	0.50	.55B	*.50	----	.55+	5	.002	----	27	267	+	27	.95B	.50
1375	----	.60B	----	----	.60+	5	.002	----	----	398	UNCH	1.05B	.30A	
1400	----	.65B	----	----	.65+	5	.002	----	----	144	UNCH	1.10B	.45A	
1450	0.65	.70B	.65	----	.70+	5	.003	----	1	100	UNCH	1.25B	.40A	
1475	----	----	----	----	.75	UNCH	.003	----	----	43	UNCH	1.95B	.40A	
1500	----	----	.75A	----	.85+	5	.003	----	----	1670	UNCH	2.10B	.40A	
1575	0.95	.95	.95	----	1.00	UNCH	.004	----	1	223	UNCH	2.75B	.50A	
1600	1.00	1.00	1.00	----	1.10	UNCH	.005	----	2	568	+	2	3.05B	.55A
1625	----	----	1.05A	----	1.20	UNCH	.005	----	----	147	UNCH	3.30B	.60	
1650	----	----	1.10A	----	1.25-	5	.005	----	----	492	UNCH	3.55B	.65A	
1675	----	----	1.20A	----	1.35-	5	.006	----	----	5	UNCH	3.85B	.70A	
1700	----	----	1.30A	----	1.50-	5	.007	----	----	251	UNCH	4.20B	.75A	
1725	----	----	1.35A	----	1.60-	5	.007	----	----	423	UNCH	4.55B	.80	
1750	----	----	1.45A	----	1.70-	10	.008	----	----	300	UNCH	4.95B	.85A	
1775	----	2.00B	1.55A	----	1.85-	10	.009	----	----	203	UNCH	5.25B	.90A	
1800	----	2.20B	1.70A	----	2.00-	10	.010	----	----	3839	UNCH	5.75B	.95A	
1825	----	2.40B	1.80A	----	2.20-	5	.011	----	----	4	UNCH	6.25B	1.00A	
1850	2.70	2.70	1.95A	----	2.35-	10	.012	----	5	126	+	3	6.75B	1.10A
1860	----	2.70B	2.00A	----	2.45-	10	.012	----	----	368	UNCH	7.00B	1.10A	
1870	----	2.80B	2.10A	----	2.55-	5	.013	----	----	134	UNCH	7.25B	1.15	
1875	----	2.85B	2.10A	----	2.60-	5	.013	----	----	423	UNCH	7.25B	1.15A	
1880	----	2.90B	2.15A	----	2.60-	10	.013	----	----	200	UNCH	7.50B	1.15A	
1890	----	3.00B	2.20A	----	2.70-	10	.014	----	----	108	UNCH	7.75B	1.20A	
1900	3.10	3.10	2.30A	----	2.80-	10	.014	----	109	475	+	100	8.00B	1.25A
1910	----	3.25B	2.35A	----	2.90-	10	.015	----	----	342	UNCH	8.25B	1.25A	
1925	----	3.40B	2.45A	----	3.05-	10	.016	----	----	444	UNCH	8.75B	1.30A	
1930	----	3.45B	2.50A	----	3.15-	5	.016	----	----	305	UNCH	8.75B	1.35A	
1940	----	3.60B	2.60A	----	3.25-	5	.017	----	----	200	UNCH	9.00B	1.35A	
1950	3.35	3.70B	2.65A	----	3.35-	5	.017	----	102	119	+	12	9.25B	1.40A
1960	----	3.85B	2.75A	----	3.45-	5	.018	----	----	181	UNCH	9.75B	1.45A	
1970	3.20	4.00B	2.85A	----	3.60	UNCH	.019	----	2	317	+	2	10.00B	1.50A
1975	----	4.05B	2.90A	----	3.65-	5	.019	----	----	845	UNCH	10.25B	1.50A	
1980	----	4.10B	2.95A	----	3.70-	5	.019	----	----	342	UNCH	10.25B	1.55A	
1990	----	4.25B	3.05A	----	3.85	UNCH	.020	----	----	236	UNCH	10.75B	1.60A	
2000	3.20	4.40B	3.15A	----	4.00	UNCH	.021	----	10	3212	UNCH	11.00B	1.60A	
2010	----	4.60B	3.25A	----	4.10-	5	.022	----	----	420	UNCH	11.25B	1.65A	
2020	----	4.75B	3.35A	----	4.25	UNCH	.023	----	----	1	UNCH	11.75B	1.70A	
2025	----	4.85B	3.40A	----	4.35	UNCH	.023	----	----	76	UNCH	12.00B	1.75A	
2030	----	4.90B	3.45A	----	4.45+	5	.024	----	----	2	UNCH	12.00B	1.75A	
2040	----	5.00B	3.60A	----	4.60+	5	.025	----	----	17	UNCH	12.50B	1.80A	
2050	----	5.25B	3.70A	----	4.75+	5	.026	----	----	66	UNCH	13.00B	1.85A	
2060	----	5.50B	3.85A	----	4.95+	5	.027	----	1	2	+	1	13.25B	1.90A
2070	----	5.50B	4.00A	----	5.10+	10	.028	----	----	60	UNCH	13.75B	2.00	
2075	----	5.75B	4.05A	----	5.20+	10	.028	----	----	595	UNCH	14.00B	2.00A	
2080	----	5.75B	4.15A	----	5.30+	10	.029	----	----	204	UNCH	14.25B	2.05A	
2090	----	6.00B	4.30A	----	5.50+	20	.030	----	----	265	UNCH	14.75B	2.10A	
2100	5.75	6.25B	4.45A	----	5.70+	20	.031	----	384	1697	+	364	15.25	2.15A
2110	----	6.50B	4.60A	----	5.90+	20	.032	----	----	10	UNCH	15.75B	2.20A	
2120	----	6.75B	4.75A	----	6.10+	20	.034	----	----	267	UNCH	16.25B	2.30A	
2125	5.75	6.75B	4.85A	----	6.20+	20	.034	----	1	1121	UNCH	16.50B	2.30A	
2130	----	7.00B	4.95A	----	6.30+	20	.035	----	----	3	UNCH	16.75B	2.35A	
2140	----	7.25B	5.25A	----	6.60+	30	.037	----	----	16	UNCH	17.25B	2.45A	
2150	----	7.50B	5.50A	----	6.80+	20	.038	----	18	1244	UNCH	17.75B	2.50A	
2170	----	8.00B	5.75A	----	7.40+	30	.041	----	----	614	UNCH	19.00B	2.65A	
2175	6.00	8.25B	6.00	----	7.50+	20	.042	----	14	241	+	2	19.25B	2.70A
2180	----	8.50B	6.00A	----	7.70+	30	.043	----	----	12	UNCH	19.75B	2.75A	
2190	----	8.75B	6.25A	----	8.00+	40	.045	----	----	10004	UNCH	20.25B	2.80A	
2200	9.00	9.00	6.50A	----	8.30+	40	.047	----	110	522	+	28	21.00B	2.90A
2210	8.00	9.50B	6.75A	----	8.60+	50	.049	----	1	214	+	1	21.50B	3.00
2220	----	9.75B	7.00A	----	9.00+	60	.051	----	----	2920	UNCH	22.25B	3.05	
2225	8.25	10.00B	7.00A	----	9.10+	50	.052	----	38	254	+	9	22.75B	3.10
2230	8.25	10.25B	7.25A	----	9.30+	60	.053	----	1	191	+	1	23.00B	3.20
2240	8.50	10.50B	7.50A	----	9.70+	70	.055	----	1	174	+	1	23.75B	3.30A
2250	10.00	11.00B	7.75A	----	10.00+	60	.057	----	179	1961	+	140	24.50B	3.40A
2260	----	11.25B	8.00A	----	10.40+	70	.060	----	----	143	UNCH	25.25B	3.50	
2270	9.75	11.75B	8.50A	----	10.80+	70	.062	----	2	468	+	2	26.25B	3.60A
2275	11.00	12.00B	8.50A	----										



CME Group, Inc.
20 South Wacker Drive, Chicago, Illinois 60606-7499.
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PRELIMINARY

Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple columns of numerical data representing option prices and volumes.

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PRELIMINARY

Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple rows of market data including strike prices, bid/ask, volume, and open interest.

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PRELIMINARY

PG48	BULLETIN #199@	E-MINI S&P 500 PUT OPTIONS								Mon, Oct 15, 2018				PG48
2950	----	209.50B	182.75A	----	207.00+	1540	.841	----	----	27	UNCH	210.00B	74.75A	
2970	----	225.75B	198.50A	----	223.50+	1620	.870	----	----	65	UNCH	225.75B	82.50A	
2975	----	229.75B	202.50A	----	227.70+	1640	.876	----	----	102	UNCH	229.75B	84.50A	
3000	----	#251.25B	223.50A	----	249.70+	1730	.904	----	----	7	UNCH	251.25B	95.75A	
3025	----	----	----	----	272.40+	1790	.926	----	----	88	UNCH	244.25B	109.00A	
3050	----	----	----	----	295.80+	1830	.942	----	----	13	UNCH	246.50B	125.00A	
3075	----	----	----	----	319.60+	1860	.955	----	----	4	UNCH	229.50B	142.50A	
3100	----	----	----	----	343.70+	1880	.964	----	----	209	UNCH	230.50B	161.25A	
3240	----	----	458.25A	----	481.00+	NEW	.989	----	1	+	1	358.25B	287.00A	
3500	----	----	----	----	738.70+	1920	.997	----	----	150	UNCH	611.25B	----	
4275	----	----	----	----	1508.40+	1940	1.000	----	----	2	UNCH	1379.25B	----	
TOTAL										505	58495 +	336		
FEB19	EOM EMINI S&P P				.75	UNCH	.002	----	58	41 -	58	1.00	.50	
1200	0.70	.70	.70	----	.80	UNCH	.002	----	----	1205	UNCH	.85B	.35	
1225	----	----	----	----	.85	UNCH	.002	----	----	1	UNCH	1.20	.50	
1250	----	----	----	----	1.00	UNCH	.003	----	----	935	UNCH	1.05B	.65A	
1300	----	----	----	----	1.10	UNCH	.003	----	----	200	UNCH	1.15B	.60A	
1325	----	----	1.05A	----	1.40	UNCH	.005	----	----	212	UNCH	1.85B	.75A	
1400	----	----	1.30A	----	1.75	UNCH	.006	----	----	101	UNCH	2.35B	.95A	
1475	----	1.80B	1.60A	----	1.90-	5	.007	----	----	114	UNCH	2.55B	1.00A	
1500	----	2.00B	1.70A	----	2.05-	5	.007	----	----	5	UNCH	2.80B	1.05A	
1525	----	2.20B	1.85A	----	2.25-	5	.008	----	----	101	UNCH	3.00B	1.15A	
1550	----	2.40B	2.00A	----	2.45	UNCH	.009	----	----	204	UNCH	3.20B	1.25A	
1575	----	2.60B	2.15A	----	2.70	UNCH	.010	----	----	163	UNCH	3.50B	1.35A	
1600	----	2.85B	2.35A	----	2.90	UNCH	.011	----	----	202	UNCH	3.80B	1.45A	
1625	----	3.10B	2.55A	----	3.20+	5	.012	----	----	1	UNCH	4.10B	1.55A	
1650	----	3.40B	2.75A	----	3.45+	5	.013	----	----	1	UNCH	4.45B	1.65A	
1675	----	3.70B	2.95A	----	3.75	UNCH	.014	----	----	6	UNCH	4.80B	1.70A	
1700	----	4.05B	3.20A	----	4.45	UNCH	.017	----	7	211 +	7	5.50B	1.95A	
1750	4.00	4.80B	3.75A	----	4.80-	5	.019	----	1	109 +	1	6.00B	2.10A	
1775	4.35	5.00B	4.05A	----	5.20-	10	.020	----	1	11 +	1	6.50B	2.25A	
1800	5.25	5.50B	4.35A	----	5.60-	10	.022	----	----	5	UNCH	9.25	2.40A	
1825	----	6.00B	4.70A	----	6.10	UNCH	.024	----	----	212	UNCH	7.50B	2.55A	
1850	----	6.50B	5.25A	----	6.30	UNCH	.025	----	----	3	UNCH	7.75B	2.65A	
1860	----	6.75B	5.25A	----	6.50	UNCH	.026	----	----	2	UNCH	8.00B	2.70A	
1870	----	6.75B	5.50A	----	6.60	UNCH	.026	----	----	3	UNCH	8.00B	2.75A	
1875	----	7.00B	5.50A	----	7.20+	10	.029	----	----	4	UNCH	8.75B	2.95A	
1900	----	7.50B	6.00A	----	7.40+	10	.030	----	----	1	UNCH	9.00B	3.05A	
1910	----	7.75B	6.25A	----	7.80+	20	.032	----	----	1	UNCH	9.25B	3.20A	
1925	----	8.25B	6.50A	----	8.70+	NEW	.036	----	4	4 +	4	10.50B	3.50A	
1960	8.50	9.25B	7.25A	----	9.60+	40	.039	----	1	313 +	1	12.00	3.85A	
1990	8.75	10.00B	8.00A	----	9.90+	40	.041	----	----	1708	UNCH	11.75B	3.95A	
2000	----	10.25B	8.25A	----	10.20+	NEW	.042	----	2	2 +	2	12.00B	4.05A	
2010	10.00	10.75B	8.50A	----	10.60+	50	.044	----	----	3000	UNCH	12.25B	4.15A	
2020	----	11.00B	8.75A	----	10.70+	50	.044	----	1	228	UNCH	12.50B	4.25A	
2025	9.75	11.25B	9.00A	----	11.60+	NEW	.048	----	10	10 +	10	13.50B	4.55A	
2050	----	12.25B	9.75A	----	12.50+	60	.050	----	----	240	UNCH	13.75B	4.70A	
2060	----	12.50B	10.00A	----	12.50+	50	.052	----	----	3	UNCH	14.50B	4.90A	
2075	----	13.25B	10.50A	----	13.50+	60	.057	----	----	3	UNCH	15.50B	5.25	
2100	----	14.25B	11.25A	----	13.90+	60	.059	----	2	2 +	2	16.00B	5.50A	
2110	13.00	14.75B	11.75A	----	14.40+	70	.061	----	----	108	UNCH	16.50B	5.75A	
2120	----	15.00B	12.00A	----	14.80+	70	.063	----	----	1	UNCH	17.00B	5.75A	
2130	----	15.50B	12.50A	----	15.80+	90	.067	----	10	12 +	2	18.00B	6.25A	
2150	----	16.50B	13.25A	----	16.80+	110	.072	----	----	2160	UNCH	19.25B	6.50A	
2170	----	17.75B	14.00A	----	17.10+	110	.073	----	----	23	UNCH	19.25B	6.50A	
2175	----	18.00B	14.25A	----	17.30+	110	.074	----	----	100	UNCH	19.75B	6.75A	
2180	----	18.25B	14.50A	----	18.40+	130	.079	----	40	5139 -	1	20.75	7.00A	
2200	17.00	19.25B	15.50A	----	19.00+	140	.082	----	----	1000	UNCH	21.50B	7.25A	
2210	----	20.00B	16.00A	----	19.60+	140	.084	----	----	16676	UNCH	22.25	7.50A	
2220	----	20.50B	16.50A	----	20.20+	150	.087	----	----	3000	UNCH	22.75B	7.75A	
2230	----	21.00B	17.00A	----	20.90+	160	.090	----	----	5000	UNCH	23.75B	8.00A	
2240	----	21.75B	17.50A	----	21.50+	160	.093	----	----	1010	UNCH	24.25B	8.25A	
2250	----	22.50B	18.00A	----	22.90+	180	.100	----	----	1	UNCH	25.75B	8.75A	
2270	----	24.00B	19.25A	----	23.20+	180	.101	----	----	19	UNCH	26.25B	8.75A	
2275	----	24.25B	19.50A	----	24.30+	NEW	.106	----	2	2 +	2	27.50B	9.25A	
2290	22.25	25.50B	20.50A	----	25.10+	190	.110	----	218	443 +	218	28.25B	9.50A	
2300	25.75	26.25B	21.25A	----	25.90+	200	.113	----	----	32	UNCH	29.25B	9.75A	
2310	----	27.00B	21.75A	----	26.70+	200	.117	----	----	101	UNCH	30.00B	10.00A	
2320	----	27.75B	22.50A	----	27.10+	210	.119	----	1	9	UNCH	30.50B	10.25A	
2325	27.25	28.25B	23.00A	----	28.40+	220	.125	----	----	11	UNCH	32.00B	10.75A	
2340	----	29.75B	24.00A	----	29.30+	220	.129	----	66	67 +	66	33.00B	11.00A	
2350	30.00	30.50B	24.75A	----	30.20+	230	.133	----	----	164	UNCH	34.00B	11.25A	
2360	----	31.50B	25.50A	----	31.20+	240	.138	----	----	163	UNCH	35.00B	11.75A	
2370	----	32.50B	26.50A	----	31.70+	240	.140	----	----	602	UNCH	35.50B	12.00A	
2375	----	33.00B	26.75A	----	34.30+	260	.152	----	----	6	UNCH	38.25B	12.75A	
2400	----	35.75B	29.00A	----	35.40+	270	.157	----	----	50	UNCH	39.50B	13.25A	
2410	----	36.75B	30.00A	----	36.50+	280	.162	----	----	31	UNCH	40.75B	13.75A	
2420	----	38.00B	31.00A	----	37.10+	280	.165	----	----	4	UNCH	41.25B	13.75A	
2425	----	38.50B	31.50A	----	37.70+	290	.168	----	----	12	UNCH	41.75B	14.00A	
2430	----	39.25B	32.00A	----	38.90+	300	.173	----	----	10	UNCH	43.25B	14.50A	
2440	----	40.50B	33.00A	----	40.20+	310	.179	----	----	24	UNCH	44.50B	15.00A	
2450	----	41.75B	34.00A	----	41.50+	320	.185	----	----	3	UNCH	46.00B	15.50A	
2460	----	43.00B	35.25A	----	43.50+	340	.194	----	----	26	UNCH	48.00B	16.25A	
2475	----	45.00B	37.00A	----	44.20+	340	.197	----	----	40	UNCH	48.75B	16.50A	
2480	----	45.75B	37.50A	----	47.10+	370	.211	----	----	10	UNCH	51.75B	17.00	
2500	----	48.75B	40.00A	----	48.60+	370	.218	----	----	44	UNCH	53.50B	17.75	
2510	----	50.25B	41.25A	----	50.20+	390	.225	----	----	30	UNCH	55.00B	18.50A	
2520	----	51.75B	42.75A	----	51.00+	390	.228	----	----	4	UNCH	56.00B	18.75A	
2525	----	52.75B	43.50A	----	51.80+	400	.232	----	----	4	UNCH	56.75B	19.25A	
2530	----	53.75B	44.25A	----	55.20+	420	.248	----	2	7	UNCH	60.50B	20.50A	
2550	51.50	57.00B	47.00A	----	57.00+	430	.256	----	----	3	UNCH	62.25B	21.00A	
2560	----	58.75B	48.75A	----	59.80+	450	.269	----	----	586	UNCH	65.25B	22.25A	
2575	----	61.75B	51.00A	----	60.80+	460	.273	----	----	81	UNCH	66.25B	22.50A	
2580	----	62.75B	52.00A	----	64.80+	490	.291	----	----	1465	UNCH	71.75	24.00A	
2600	----	66.75B	55.50A	----	67.00+	520	.301	----	----	6	UNCH	73.00B	24.75A	
2610	----	69.00B	57.25A	----	69.10+	530	.311	----	1	65	UNCH	75.25B	25.75A	
2620	67.50	71.25B	59.25A	----	70.20+	540	.316	----	----	101	UNCH	76.25B	26.00A	
2625	----	72.50B	60.25A	----	73.70+	NEW	.331	----	134	134 +	134	80.00B	27.50A	
2640	----	76.00B	63.25A	----	76.10+	600	.342	----	1	18	UNCH	82.50B	28.25A	
2650	----	78.50B	65.50A	----	81.30+	660	.365	----	----	8	UNCH	88.00B	30.25A	
2670	----	84.00B	70.00A	----	82.70+	680	.371	----	----	86	UNCH	90.75	30.75A	
2675	----	85.00B	71.25A	----	85.50+	720	.383	----	----	9	UNCH	93.50	32.00A	
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Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple rows of market data for S&P 500 put options.

ADDITIONAL 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 data for various strike prices.

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PG48	BULLETIN #199@				E-MINI S&P 500 PUT OPTIONS					Mon, Oct 15, 2018				PG48
2110	.10	.10	.10	----	.15+	0.05	.000	----	51	1560	-	1	12.75B	.10A
2120	.10	.10	.10	----	.15	UNCH	.000	----	1	3869	UNCH		13.25B	.10
2125	----	----	.10A	----	.15	UNCH	.000	----	----	3405	UNCH		13.25B	.10A
2130	----	----	.10A	----	.15	UNCH	.000	----	----	1417	UNCH		13.50B	.10
2140	----	----	.10A	----	.15	UNCH	.000	----	----	1667	UNCH		14.00B	.10
2150	.05	.10B	*.05	----	.15	UNCH	.000	----	16	3889	UNCH		14.50B	.05
2160	----	----	.10A	----	.15	UNCH	.000	----	----	1612	UNCH		15.00B	.10A
2170	----	----	.10A	----	.15	UNCH	.000	----	----	1031	UNCH		15.50B	.10
2175	----	----	.10A	----	.20	0.05	.000	----	----	2436	UNCH		15.75B	.10
2180	.15	.15	.10A	----	.20+	0.05	.001	----	7	4033	UNCH		16.00B	.10
2190	.10	.15	.10	----	.20+	0.05	.001	----	461	1168	+	116	16.50B	.10A
2200	.05	.15B	*.05	----	.20	UNCH	.001	----	117	11214	-	10	17.25B	.05
2210	.10	.15B	.10	----	.20	UNCH	.001	----	3	3120	-	3	17.75B	.10A
2220	.10	.15B	.10	----	.20	UNCH	.001	----	8	3894	UNCH		18.25B	.10A
2225	.25	.25	.10	----	.20	UNCH	.001	----	8	1399	-	1	18.75B	.10A
2230	.10	.15B	.10	----	.20	UNCH	.001	----	1000	6626	+	1000	19.00B	.10A
2240	.20	.20	*.05	----	.25	0.05	.001	----	43	4447	UNCH		19.50B	.10
2250	.15	.20	*.05	----	.25	UNCH	.001	----	450	6869	+	372	20.25B	.05
2260	.15	.20B	.10	----	.25	UNCH	.001	----	772	3926	+	447	21.00B	.10A
2270	.10	.20B	.10	----	.25	UNCH	.001	----	739	1765	+	104	21.75B	.10A
2275	.10	.20B	.10	----	.25	UNCH	.001	----	62	3960	-	1	22.00B	.10A
2280	.15	.20	*.10	----	.25-	0.05	.001	----	825	2935	+	424	22.50B	.10
2290	.15	.30	*.10A	----	.30	UNCH	.001	----	4394	7639	+	3953	23.25B	.10A
2300	.30	.30	*.10	----	.30	UNCH	.001	----	469	8851	+	198	24.00B	.10
2310	.20	.25B	*.10A	----	.30-	0.05	.002	----	121	2183	UNCH		24.75B	.10A
2320	.15	.30B	*.10	----	.35	UNCH	.002	----	1204	3550	+	1174	25.75B	.10
2325	.15	.30B	*.15	----	.35	UNCH	.002	----	849	5340	+	304	26.00B	.15
2330	.25	.30B	*.10	----	.35	UNCH	.002	----	1460	3048	+	1107	26.50B	.10
2340	.15	.30	*.10A	----	.35	UNCH	.002	----	5	1732	+	1	27.50B	.10A
2350	.40	.40	.15	----	.35	UNCH	.002	----	858	7487	+	468	28.50B	.15
2355	----	----	----	----	.40	NEW	.003	----	1015	1015	+	1015	----	----
2360	.20	.35B	.15	----	.40	UNCH	.003	----	2354	3151	+	1697	29.50B	.15
2365	.25	.35B	*.15A	----	.40	UNCH	.003	----	480	485	+	480	80	.15A
2370	.15	.40B	.15	----	.40-	0.05	.003	----	1965	2834	+	1170	30.50B	.15
2375	.15	.40B	.15	----	.40-	0.05	.003	----	1258	7934	+	304	31.00B	.15
2380	.25	.40B	.15A	----	.40-	0.05	.003	----	25	3960	+	9	31.50B	.15A
2385	.15	.40B	*.15	----	.40-	0.10	.003	----	358	412	+	357	90	.15
2390	.65	.65	.20A	----	.40-	0.10	.003	----	39	2483	UNCH		32.50B	.15
2395	----	----	*.20A	----	.40-	0.10	.003	----	----	50	UNCH		2.60	.20A
2400	.15	.45	.15	----	.45-	0.05	.003	----	2092	12338	+	10	33.75B	.15
2405	.50	.50	*.20A	----	.45-	0.10	.003	----	153	178	+	152	1.60	.20A
2410	.30	.50B	.25A	----	.45-	0.10	.003	----	194	1253	-	39	35.00B	.15
2415	.25	.50B	*.25	----	.45-	0.15	.004	----	3	72	+	3	3.15	.25
2420	.35	.45B	.25A	----	.50-	0.10	.004	----	212	4466	-	132	36.25B	.15
2425	.25	.55B	.25	----	.50-	0.15	.004	----	197	5037	-	121	36.75B	.25
2430	.30	.55B	.30	----	.55-	0.10	.005	----	5	1749	-	5	37.50B	.25
2435	.30	.60B	.30	----	.55-	0.15	.005	----	38	2382	+	30	30.00B	.25
2440	.55	.75B	.30A	----	.55-	0.15	.005	----	178	1958	-	26	38.75B	.30A
2445	.45	.80B	.30A	----	.60-	0.15	.005	----	41	1702	UNCH		31.25B	.25A
2450	.80	1.00	.25	----	.60-	0.15	.005	----	399	9116	-	182	40.25B	.25
2455	.45	.90B	.30A	----	.60-	0.20	.006	----	150	2048	+	50	32.25B	.25A
2460	.50	.95B	.35	----	.65-	0.15	.006	----	112	986	+	100	41.75B	.25A
2465	.90	1.00B	.35A	----	.65-	0.20	.006	----	203	13735	+	2	33.50B	.25
2470	.45	1.10B	.35A	----	.70-	0.20	.007	----	577	1386	-	126	43.25B	.25
2475	1.25	1.25	.35A	----	.70-	0.25	.007	----	202	4079	+	66	44.00B	.35A
2480	.65	1.25B	.35A	----	.75-	0.25	.008	----	184	6606	-	138	44.75B	.35A
2485	1.05	1.35B	.40A	----	.80-	0.25	.008	----	3381	4475	+	1904	38.25B	.35
2490	.65	1.40B	.40	----	.80-	0.30	.008	----	961	4143	+	420	46.25B	.35A
2495	1.15	1.50B	.40A	----	.85-	0.30	.009	----	403	1311	+	193	39.75B	.40A
2500	1.35	1.75	.40	----	.90-	0.30	.010	----	7218	15192	+	1360	48.00B	.30
2505	1.00	1.70B	.40A	----	.95-	0.30	.011	----	414	2916	+	379	41.00B	.40
2510	.85	1.80B	.45	----	1.00-	0.35	.011	----	1123	2596	+	803	49.75B	.35A
2515	1.05	1.95B	.45	----	1.05-	0.35	.012	----	1045	2723	+	627	42.75B	.40A
2520	1.70	2.10	.45	----	1.10-	0.35	.013	----	841	3738	+	405	51.50B	.40A
2525	1.70	2.20B	.50	----	1.15-	0.40	.014	----	472	2724	-	54	52.50B	.40A
2530	2.25	2.35B	.50	----	1.20-	0.40	.015	----	752	2026	+	313	53.50B	.40A
2535	1.85	2.50B	.55	----	1.30-	0.40	.016	----	1187	1857	+	460	46.00B	.45A
2540	2.00	2.65B	.60A	----	1.35-	0.45	.017	----	114	1647	+	36	55.50B	.40A
2545	2.15	2.85B	.60A	----	1.45-	0.50	.019	----	885	3066	+	55	47.75B	.45
2550	2.25	2.95B	.65A	----	1.55-	0.50	.020	----	1571	7638	+	469	57.50B	.45A
2555	1.05	3.20B	.70	----	1.65-	0.50	.022	----	777	3365	+	202	49.50B	.55A
2560	2.40	3.40B	.75	----	1.75-	0.55	.024	----	644	2558	+	95	59.50B	.50
2565	2.05	3.60B	.75A	----	1.85-	0.55	.025	----	942	3464	+	246	51.50B	.50A
2570	2.85	3.90B	.80	----	1.95-	0.60	.027	----	3011	4318	+	1349	61.75B	.50A
2575	3.15	4.10B	.85	----	2.05-	0.65	.029	----	2098	4342	-	678	63.00B	.55A
2580	1.80	4.35B	.90A	----	2.15-	0.75	.031	----	1266	2441	-	48	64.00B	.55A
2585	2.80	4.60B	.95A	----	2.30-	0.80	.034	----	181	1697	+	74	56.00	.60A
2590	4.00	4.95B	1.00	----	2.45-	0.85	.037	----	1530	4756	-	271	66.50B	.60A
2595	3.50	5.25B	1.05A	----	2.65-	0.85	.040	----	516	1917	+	216	57.75B	.60A
2600	4.25	5.50	1.10	----	2.85-	0.90	.044	----	7799	12029	+	476	69.00B	.65
2605	3.40	6.00B	1.20	----	3.05-	0.95	.048	----	1499	2752	+	477	60.00B	.65A
2610	5.00	6.25B	1.30A	----	3.25-	1.00	.052	----	243	3262	+	78	71.50B	.70A
2615	4.35	6.75B	1.40	----	3.55-	1.00	.057	----	3223	4250	+	1592	62.25B	.70A
2620	5.25	7.00B	1.45	----	3.80-	1.05	.062	----	2410	3443	+	1162	74.25B	.75A
2625	6.00	7.50B	1.60A	----	4.10-	1.10	.067	----	2334	5842	+	816	75.75B	.75
2630	7.00	8.00B	1.70	----	4.45-	1.05	.074	----	4464	4036	+	1855	77.00B	.80A
2635	7.75	8.75B	1.85A	----	4.80-	1.10	.081	----	917	1425	+	15	67.25B	.80
2640	6.25	9.25B	2.00A	----	5.20-	1.10	.088	----	2001	3873	-	146	80.00B	.85A
2645	10.00	10.00	2.15A	----	5.60-	1.10	.096	----	757	1841	+	1	69.75B	.90
2650	8.00	10.50B	2.35A	----	6.00-	1.20	.104	----	3833	9909	+	579	83.00B	.95
2655	6.25	11.25B	2.55A	----	6.40-	1.30	.112	----	751	3477	+	105	73.00	.90
2660	10.00	12.00B	2.75A	----	6.90-	1.30	.122	----	970	2034	+	136	86.25B	.95
2665	9.75	12.75B	3.00A	----	7.40-	1.30	.133	----	1284	3968	-	239	75.50B	1.05A
2670	9.50	13.50	3.30	----	8.00-	1.30	.145	----	3112	2524	+	496	89.75B	1.10A
2675	10.50	14.50B	3.55A	----	8.60-	1.30	.157	----	7573	5119	-	424	91.50B	1.15A
2680	10.75	15.25B	3.90A	----	9.30-	1.30	.171	----	4568	6141	+	678	93.25B	1.20
2685	11.75	16.50B	4.25A	----	10.00-	1.30	.185	----	1889	2227	+	444	81.75B	1.20
2690	13.25	17.25B	4.65A	----	10.80-	1.20	.201	----	2761	4993	+	507</		



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Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple rows of market data for S&P 500 put options, including prices, volumes, and bid/ask information.

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PG48	BULLETIN #199@				E-MINI S&P 500 PUT OPTIONS				Mon, Oct 15, 2018				PG48
2415	6.25	#8.75B	*4.90A	----	7.20+	0.20	.062	----	173	323 +	23	8.75B	4.90A
2420	7.00	8.75B	5.25A	----	7.40+	0.20	.064	----	458	1441 +	232	16.25	2.00
2425	7.75	9.00B	5.25A	----	7.60+	0.20	.066	----	184	1429 +	79	17.00	2.00
2430	7.25	9.25B	5.50A	----	7.80+	0.20	.068	----	80	832 +	80	17.75	2.10A
2435	8.00	9.50B	5.50A	----	8.10+	0.30	.070	----	40	1307 +	19	16.50B	2.15A
2440	7.75	9.75B	5.75	----	8.30+	0.30	.072	----	314	1698 +	160	18.50	2.20
2445	8.00	10.00B	6.00	----	8.50+	0.30	.074	----	70	1929 +	70	17.75	2.20
2450	8.75	10.50B	6.00A	----	8.70+	0.30	.076	----	472	9252 +	457	17.50B	2.25
2455	8.50	10.75B	6.25	----	9.00+	0.40	.079	----	80	1283 +	71	17.75B	2.30A
2460	8.75	11.00B	6.25	----	9.20+	0.30	.081	----	103	652 +	65	18.00B	2.35A
2465	9.50	11.25B	6.50	----	9.50+	0.40	.084	----	52	888 +	51	18.50B	2.40A
2470	9.50	11.50B	6.75A	----	9.70+	0.40	.086	----	98	1291 +	78	19.00B	2.45A
2475	12.00	12.00	7.00	----	10.00+	0.40	.089	----	182	1945 +	25	22.50	2.50A
2480	8.25	12.25B	7.00A	----	10.30+	0.50	.091	----	41	7078 +	11	19.75B	2.55
2485	10.25	12.50B	7.25A	----	10.60+	0.50	.094	----	125	1059 +	28	20.00B	2.60A
2490	11.00	13.00B	7.50	----	10.90+	0.60	.097	----	364	3020 +	299	20.50B	2.65
2495	10.75	13.50B	7.75A	----	11.30+	0.70	.101	----	226	610 +	110	20.75B	2.70A
2500	14.25	14.25	8.00	----	11.60+	0.70	.104	----	2044	9746 +	817	25.00	2.75
2505	11.25	14.25B	8.25A	----	12.00+	0.70	.107	----	224	6058 +	2	22.00	2.80A
2510	10.50	14.50B	8.50A	----	12.30+	0.70	.110	----	14	2050	UNCH	22.50	2.85A
2515	12.50	15.00B	8.75A	----	12.70+	0.70	.114	----	45	1491 +	27	22.50B	2.90A
2520	14.00	15.75	9.00A	----	13.10+	0.80	.117	----	11	1186 +	8	22.75B	3.00A
2525	13.75	15.75B	9.25A	----	13.50+	0.80	.121	----	841	2512 +	272	23.25B	3.05A
2530	13.75	16.25B	9.75A	----	13.90+	0.80	.125	----	566	2646 -	128	23.75B	3.10A
2535	14.50	16.75B	10.00A	----	14.30+	0.80	.129	----	29	677 +	13	26.50	3.15A
2540	15.00	17.25B	10.25A	----	14.80+	0.90	.133	----	131	980 +	122	24.75B	3.25
2545	12.00	17.75B	10.50A	----	15.20+	0.80	.137	----	19	663 -	9	25.25B	3.30A
2550	16.00	18.50B	11.00A	----	15.70+	0.90	.142	----	971	6178 -	165	29.75	3.40A
2555	15.25	19.00B	11.25A	----	16.20+	1.00	.146	----	156	2366 +	64	26.25B	3.45A
2560	16.00	19.50B	11.75A	----	16.70+	1.10	.151	----	113	10030 -	4	30.00	3.55
2565	16.50	20.25B	12.00A	----	17.20+	1.20	.156	----	103	693 +	25	27.25B	3.60A
2570	18.25	20.75B	12.50A	----	17.70+	1.20	.160	----	403	4440 +	29	27.75B	3.70A
2575	17.25	21.25B	12.75A	----	18.30+	1.40	.166	----	60	2014 +	19	30.50	3.75A
2580	18.25	22.00B	13.25A	----	18.90+	1.40	.171	----	345	10442 -	10	36.25	3.85
2585	18.25	22.75B	13.75A	----	19.50+	1.50	.177	----	96	414 +	95	29.50B	3.95
2590	19.50	23.25B	14.25A	----	20.10+	1.50	.182	----	4	1042 -	3	31.00	4.00
2595	19.00	24.00B	14.75A	----	20.80+	1.60	.188	----	41	1143 +	13	30.75B	4.10A
2600	19.50	24.75B	15.25A	----	21.50+	1.70	.194	----	1826	9446 +	889	40.00	4.20A
2605	22.25	25.50B	15.75A	----	22.20+	1.70	.201	----	203	1323 +	60	32.00B	4.30A
2610	21.00	26.50B	16.00	----	23.00+	1.80	.207	----	191	547 +	105	32.50B	4.40A
2615	22.25	27.25B	16.75A	----	23.70+	1.80	.214	----	67	1602 +	24	33.50	4.50A
2620	26.25	28.00B	17.25A	----	24.50+	1.90	.221	----	172	1024 +	77	34.00B	4.60A
2625	23.75	29.00B	18.00A	----	25.30+	1.90	.228	----	308	4858 -	133	40.50	4.70A
2630	24.00	29.75B	18.50A	----	26.20+	2.10	.236	----	23	1070 -	20	40.50	4.85A
2635	25.25	30.75B	19.25A	----	27.00+	2.10	.243	----	123	1173 -	2	40.00	4.95A
2640	26.75	31.75B	19.75A	----	27.90+	2.20	.251	----	162	1685 +	35	41.00	5.25
2645	30.25	32.75B	20.50A	----	28.90+	2.30	.259	----	139	627 -	2	42.00	5.25A
2650	27.00	33.75B	21.25A	----	29.80+	2.40	.267	----	2226	6908 -	767	53.00	5.50
2655	30.50	34.75B	22.00A	----	30.80+	2.50	.276	----	409	790 +	45	50.50	5.50A
2660	31.00	36.00B	22.75A	----	31.90+	2.70	.285	----	401	2368 -	140	43.50	5.75A
2665	34.75	37.00B	23.50A	----	32.90+	2.80	.294	----	580	1900 -	105	43.50	5.75
2670	30.75	38.25B	24.25A	----	34.00+	3.00	.303	----	46	1132 -	12	47.00	6.00A
2675	39.00	39.50B	25.25A	----	35.20+	3.20	.313	----	414	2388 -	11	50.25	6.00A
2680	40.50	40.75B	26.25A	----	36.30+	3.30	.322	----	123	1376 -	80	47.75	6.25
2685	33.25	42.00B	27.00A	----	37.50+	3.40	.333	----	67	1339 -	6	48.75	6.50A
2690	42.25	43.25B	28.00A	----	38.80+	3.60	.343	----	56	3434 +	14	49.00B	6.50A
2695	39.50	44.50B	29.00A	----	40.00+	3.70	.354	----	21	2795 +	1	57.00	6.75A
2700	40.50	46.00B	30.00A	----	41.30+	3.80	.365	----	1943	6886 +	97	67.00	7.00
2705	40.00	47.50B	31.25A	----	42.70+	4.00	.376	----	134	14552 -	10	56.75	7.25A
2710	41.25	49.00B	32.25A	----	44.10+	4.10	.387	----	242	835 +	22	60.75	7.25A
2715	42.75	50.50B	33.50A	----	45.60+	4.30	.399	----	35	1334 +	9	67.25	7.50A
2720	40.75	52.25B	34.75A	----	47.10+	4.50	.412	----	686	1782 -	100	64.75	7.75A
2725	44.25	53.75B	35.75A	----	48.70+	4.70	.424	----	1392	15791 +	1	71.25	8.00A
2730	45.00	55.50B	37.25A	----	50.30+	4.80	.437	----	1785	3437 -	503	62.00B	8.25
2735	47.25	57.25B	38.50A	----	52.00+	5.00	.450	----	157	1055 -	135	68.75	8.25A
2740	49.00	59.25B	40.00	----	53.70+	5.10	.464	----	368	1546 +	231	70.00	8.50A
2745	56.75	61.00B	41.25A	----	55.40+	5.20	.478	----	87	1461 +	35	68.25	8.75A
2750	56.00	63.00B	42.75A	----	57.20+	5.30	.492	----	1824	5571 -	649	91.75	9.00A
2755	60.25	65.00B	44.25A	----	59.00+	5.30	.507	----	352	1758 +	184	71.50B	9.50
2760	62.50	67.25B	46.00A	----	60.90+	5.40	.521	----	329	1710 +	120	94.00	9.75A
2765	62.75	69.50B	47.75A	----	63.00+	5.60	.537	----	248	1979 +	142	83.25	10.00
2770	59.50	71.75B	49.50A	----	65.10+	5.80	.552	----	119	1751 +	19	78.00B	10.25A
2775	62.50	74.25B	51.25A	----	67.30+	6.00	.568	----	40	4192 +	36	81.75	10.50A
2780	66.75	76.50B	53.00A	----	69.60+	6.30	.584	----	21	3703 -	19	89.75	11.00A
2785	71.50	79.00B	55.00A	----	72.00+	6.60	.600	----	20	12571 +	12	93.00	11.25A
2790	73.75	81.00B	57.00A	----	74.50+	6.90	.617	----	121	2863 -	98	95.50	11.50A
2795	71.75	83.75B	59.00A	----	77.10+	7.20	.633	----	39	1159 -	6	100.00	12.00A
2800	75.75	86.25B	61.25A	----	79.80+	7.60	.650	----	195	7003 -	25	105.00	12.50
2805	78.50	89.25B	63.50A	----	82.50+	7.80	.667	----	49	1214 -	16	98.50	12.75A
2810	77.25	92.00B	65.75A	----	85.40+	8.20	.684	----	54	1910 -	17	108.75	13.25A
2815	81.75	95.00B	68.00A	----	88.30+	8.50	.701	----	28	1568 -	11	106.75	13.75A
2820	83.00	98.00B	70.75A	----	91.40+	8.90	.718	----	14	1495	UNCH	104.00B	14.25A
2825	92.50	99.75B	73.50A	----	94.50+	9.30	.734	----	18	2465 +	8	117.25	14.75A
2830	87.50	103.00B	76.25A	----	97.80+	9.80	.751	----	163	2018 +	130	110.00B	15.25A
2835	92.00	106.25B	79.00A	----	101.20+	10.30	.768	----	25	1653	UNCH	113.25B	15.75A
2840	94.50	109.75B	82.50A	----	104.70+	10.80	.784	----	209	2421 -	199	117.50	16.50
2845	97.50	113.25B	85.50A	----	108.20+	11.30	.799	----	1	2224	UNCH	120.00B	17.00A
2850	105.00	116.75B	88.75A	----	111.90+	11.80	.814	----	5	3815 +	1	139.25	17.75
2855	----	120.25B	92.25A	----	115.70+	12.30	.829	----	----	1443	UNCH	128.75	18.25A
2860	109.50	124.00B	95.75A	----	119.60+	12.70	.842	----	3	3037	UNCH	139.00	19.00A
2865	----	127.75B	99.75A	----	123.70+	13.30	.855	----	----	1431	UNCH	134.25B	19.75A
2870	----	131.75B	103.50A	----	127.80+	13.70	.867	----	----	3348	UNCH	138.25B	20.50A
2875	137.00	137.00	107.2										



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PRELIMINARY

PG48	BULLETIN #199@	E-MINI S&P 500 PUT OPTIONS					Mon, Oct 15, 2018					PG48		
1225	.50	.50	*.50	----	.55	UNCH	.002	----	240	240	+	240	.60B	.50
1300	----	----	.65A	----	.65-	0.05	.002	----	----	5	UNCH	1.30	.40A	
1325	.65	.65	.70	----	.70-	0.05	.002	----	240	269	+	240	.80B	.45A
1400	----	----	.80A	----	.85-	0.05	.003	----	----	403	UNCH	1.15	.45A	
1500	----	----	1.05A	----	1.15-	0.05	.004	----	70	1934	UNCH	1.65B	.60A	
1525	----	----	1.10A	----	1.20-	0.10	.005	----	----	72	UNCH	1.75B	.65A	
1550	----	----	1.15A	----	1.30-	0.10	.005	----	----	208	UNCH	2.05B	.70A	
1575	----	----	1.25A	----	1.40-	0.10	.006	----	----	6	UNCH	2.80	.80A	
1600	----	----	1.35A	----	1.55-	0.10	.006	----	----	122	UNCH	2.80	.80A	
1625	----	----	1.45A	----	1.65-	0.10	.007	----	----	2	UNCH	2.85	1.00A	
1650	----	----	1.55A	----	1.80-	0.10	.007	----	----	241	UNCH	3.05	1.05A	
1675	----	----	1.65A	----	1.95-	0.10	.008	----	----	546	UNCH	3.20	1.10A	
1700	2.40	2.40	1.80A	----	2.10-	0.10	.009	----	82	971	+	49	3.10	1.05A
1725	----	----	1.90A	----	2.30-	0.10	.010	----	2	4	+	2	3.25B	1.10A
1750	----	2.65B	2.10A	----	2.50-	0.10	.011	----	1	12	UNCH	3.50B	1.15	
1775	----	2.90B	2.25A	----	2.70-	0.10	.012	----	----	35	UNCH	3.75B	1.20A	
1800	----	3.15B	2.40A	----	2.95-	0.05	.013	----	----	53	UNCH	4.05B	1.35A	
1825	----	3.45B	2.60A	----	3.20-	0.05	.014	----	802	1141	+	802	5.00	1.45A
1850	3.25	3.70B	2.85A	----	3.45-	0.05	.016	----	9	42	+	8	4.75B	1.55A
1875	----	3.85B	2.90A	----	3.55-	0.10	.016	----	----	24	UNCH	4.85B	1.60A	
1870	----	4.00B	3.00A	----	3.70-	0.05	.017	----	----	163	UNCH	5.75	1.65A	
1875	3.40	4.05B	3.05A	----	3.75-	0.05	.017	----	3	22	+	3	5.00B	1.65A
1880	----	4.15B	3.10A	----	3.80-	0.05	.018	----	----	143	UNCH	5.00B	1.70A	
1900	----	4.40B	3.30A	----	4.05-	0.10	.019	----	----	215	UNCH	6.00	1.75A	
1910	----	4.60B	3.40A	----	4.20-	0.05	.020	----	----	46	UNCH	5.50	1.80A	
1925	----	4.85B	3.55A	----	4.40-	0.10	.021	----	----	543	UNCH	5.75B	1.90A	
1930	----	4.90B	3.65A	----	4.50-	0.05	.021	----	----	95	UNCH	6.00B	1.90A	
1940	----	5.00B	3.75A	----	4.65-	0.05	.022	----	----	504	UNCH	6.00B	1.95A	
1950	----	5.25B	3.85A	----	4.80-	0.05	.023	----	----	115	UNCH	6.25B	2.05A	
1960	----	5.25B	4.00A	----	5.00	UNCH	.024	----	----	1	UNCH	6.50B	2.10A	
1970	----	5.50B	4.10A	----	5.20	UNCH	.025	----	----	3	UNCH	6.75B	2.15A	
1975	----	5.75B	4.20A	----	5.30+	0.10	.025	----	----	260	UNCH	6.75B	2.15A	
1980	----	5.75B	4.25A	----	5.40+	0.10	.026	----	----	10	UNCH	6.75B	2.20A	
1990	----	6.00B	4.40A	----	5.60+	0.10	.027	----	----	11	UNCH	7.00B	2.25A	
2000	6.00	6.25B	4.55A	----	5.80+	0.20	.028	----	255	555	UNCH	8.00	2.25	
2025	----	6.75B	4.95A	----	6.30+	0.20	.030	----	21	29	+	5	8.75	2.50A
2030	6.25	6.75B	5.25A	----	6.40+	0.20	.031	----	2	13	UNCH	8.75	2.55A	
2040	----	7.00B	5.25A	----	6.60+	0.20	.032	----	----	8	UNCH	8.25B	2.60A	
2050	6.25	7.25B	5.50A	----	6.80+	0.20	.033	----	14	48	+	10	8.50B	2.70A
2060	----	7.50B	5.75A	----	7.00+	0.10	.034	----	----	3	UNCH	8.75B	2.80A	
2070	----	7.75B	6.00A	----	7.30+	0.20	.036	----	4	507	+	3	9.00B	2.85A
2075	----	8.00B	6.00A	----	7.40+	0.20	.036	----	----	81	UNCH	9.25B	2.85	
2080	----	8.00B	6.00A	----	7.50+	0.10	.037	----	----	10	UNCH	9.50B	2.95A	
2090	----	8.50B	6.25A	----	7.80+	0.20	.039	----	----	12	UNCH	9.75B	3.05A	
2100	----	8.75B	6.50A	----	8.00+	0.20	.040	----	203	1739	+	150	10.50	3.05
2110	----	9.00B	6.75A	----	8.30+	0.20	.041	----	----	300	UNCH	10.25B	3.20A	
2120	----	9.25B	7.00A	----	8.60+	0.20	.043	----	----	4	UNCH	10.75B	3.30A	
2125	----	9.50B	7.25A	----	8.80+	0.30	.044	----	----	2754	UNCH	10.75	3.35A	
2130	----	9.75B	7.25A	----	9.00+	0.40	.045	----	----	113	UNCH	11.00B	3.40A	
2140	----	10.00B	7.50A	----	9.30+	0.40	.047	----	----	61	UNCH	11.25B	3.50A	
2150	----	10.25B	7.75A	----	9.60+	0.40	.048	----	----	926	UNCH	11.75B	3.50	
2160	----	10.75B	8.00A	----	10.00+	0.50	.050	----	----	105	UNCH	12.25B	3.70A	
2170	----	11.00B	8.25A	----	10.40+	0.50	.052	----	----	241	UNCH	12.75B	3.85A	
2175	----	11.25B	8.50A	----	10.50+	0.50	.053	----	----	2162	UNCH	13.50	3.80A	
2180	----	11.50B	8.50A	----	10.70+	0.50	.054	----	----	507	UNCH	13.00B	3.85	
2190	----	11.75B	9.00A	----	11.10+	0.50	.056	----	250	526	+	250	13.50B	4.05A
2200	10.75	12.25B	9.25A	----	11.50+	0.50	.059	----	1612	3034	-	251	15.50	4.15A
2210	11.50	12.75B	9.50A	----	11.90+	0.50	.061	----	5	10	UNCH	14.25B	4.20	
2220	----	13.25B	10.00A	----	12.30+	0.50	.063	----	----	3	UNCH	14.75B	4.40A	
2225	----	13.25B	10.00A	----	12.50+	0.50	.064	----	----	29	UNCH	15.00B	4.50A	
2230	----	13.50B	10.25A	----	12.70+	0.50	.065	----	----	8	UNCH	15.25B	4.45	
2240	12.25	14.00B	10.50A	----	13.10+	0.50	.068	----	6	50	+	6	16.00	4.70A
2250	13.50	14.50B	11.00A	----	13.60+	0.50	.070	----	55	629	+	6	17.25	4.70
2260	12.50	15.00B	11.25A	----	14.10+	0.60	.073	----	5	12	UNCH	17.00B	4.95A	
2270	13.25	15.50B	11.75A	----	14.60+	0.70	.076	----	6	17	+	6	17.50B	5.25A
2275	13.25	15.75B	12.00A	----	14.80+	0.60	.077	----	11	226	+	11	17.75B	5.25A
2280	14.25	16.25B	12.00A	----	15.10+	0.70	.079	----	28	85	+	28	18.25B	5.25A
2290	14.00	16.75B	12.50A	----	15.60+	0.70	.081	----	5	102	UNCH	18.75B	5.50A	
2300	16.25	17.25B	13.00A	----	16.10+	0.70	.084	----	1049	1718	+	957	21.50	5.75
2310	15.75	18.00B	13.50A	----	16.70+	0.80	.088	----	5	490	+	5	20.00B	5.75A
2320	16.50	18.50B	14.00A	----	17.30+	0.90	.091	----	10	137	+	10	20.75B	6.00A
2325	15.75	19.00B	14.25A	----	17.60+	0.90	.093	----	10	522	+	9	22.25	6.00A
2330	16.00	19.25B	14.50A	----	17.90+	0.90	.095	----	5	5005	+	5	21.50B	6.25A
2340	17.00	20.00B	15.00A	----	18.60+	1.00	.098	----	33	392	+	32	22.25B	6.50A
2350	17.25	20.75B	15.50A	----	19.30+	1.10	.102	----	188	675	+	155	26.75	6.50A
2360	18.25	21.50B	16.25A	----	20.10+	1.20	.106	----	13	18	+	13	27.75	6.75A
2370	18.75	22.25B	16.75A	----	20.90+	1.30	.111	----	11	16	+	11	24.75B	7.00A
2375	19.25	22.75B	17.00A	----	21.30+	1.40	.113	----	47	590	UNCH	25.00B	7.25A	
2380	----	23.00B	17.50A	----	21.70+	1.40	.115	----	----	28	UNCH	27.50	7.25A	
2390	----	23.75B	18.00A	----	22.50+	1.50	.120	----	----	51	UNCH	28.50	7.50A	
2400	----	24.75B	18.75A	----	23.30+	1.50	.124	----	----	849	UNCH	29.50	7.75A	
2410	22.25	25.50B	19.50A	----	24.10+	1.50	.129	----	5	244	+	5	28.25B	8.00A
2420	23.50	26.50B	20.25A	----	25.00+	1.60	.134	----	10	616	UNCH	29.25B	8.25A	
2425	----	27.00B	20.50A	----	25.40+	1.60	.136	----	36	217	+	36	32.00	8.50A
2430	----	27.50B	21.00A	----	25.90+	1.60	.139	----	----	75	UNCH	30.25B	8.50A	
2440	----	28.50B	21.75A	----	26.90+	1.70	.144	----	----	232	UNCH	31.50B	8.75A	
2450	26.00	29.50B	22.50A	----	28.00+	1.90	.150	----	2	423	+	1	35.75	9.00A
2460	----	30.75B	23.50A	----	29.00+	1.90	.156	----	----	411	UNCH	33.75B	9.50A	
2470	----	31.75B	24.50A	----	30.20+	2.10	.162	----	----	112	UNCH	35.00B	9.75A	
2475	31.25	32.50B	25.00A	----	30.80+	2.20	.166	----	18	176	+	18	35.50B	10.00A
2480	----	33.00B	25.25A	----	31.40+	2.30	.169	----	----	415	UNCH	36.25B	10.00A	
2490	----	34.25B	26.25A	----	32.60+	2.40	.175	----	17	99	-	7	37.50B	10.50A
2500	----	35.50B	27.50A	----	33.80+	2.40	.182	----	25	3596	UNCH	38.75B	10.75A	
2510	30.75	36.75B	28.50A	----	35.10+	2.60	.189	----	2	382	UNCH	42.75	11.25A	
2520	----	38.25B	29.50A	----	36.40+	2.60	.197	----	----	300	UNCH	43.25	11.50A	
2525	31.50	39.00B	30.25A	----	37.10+	2.70	.200	----	25	370	UNCH	42.75	11.75A	
2530	----	39.75B	30.75A	----	37.80+	2.80	.204	----	----	175	UN			



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PG48 BULLETIN #199@ E-MINI S&P 500 PUT OPTIONS Mon, Oct 15, 2018 PG48

Table with columns for price, bid, ask, volume, and open interest. Includes a TOTAL row at the bottom.

Table with columns for MDW MID, (FUTURES SETT. .00), and various option specifications. Includes a TOTAL row at the bottom.

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PG48	BULLETIN #199@	E-MINI S&P 500 PUT OPTIONS								Mon, Oct 15, 2018	PG48			
2480	----	#3.40B	*1.25A	----	2.25	NEW	.028	----	8	8	+	8	3.40B	1.25A
2480	.25	.30	*.20	----	2.25	0.30	.001	----	540	589	+	530	6.25	.20
2485	----	3.35B	*1.30A	----	2.35	0.35	.029	----	432	7.75	UNCH	4.65	1.30A	.20
2485	.25	.40B	*.20	----	.25	0.35	.001	----	537	1216	+	407	4.65	.20
2490	.20	.40B	*.20	----	.25	0.40	.001	----	537	752	+	511	5.25	.15
2495	----	3.85B	*1.40A	----	2.50	0.40	.032	----	147	8	UNCH	6.00B	1.40A	.20
2495	.20	.45B	*.20	----	.25	0.40	.001	----	300	357	+	147	4.95	.20
2500	3.00	4.05B	*1.45A	----	2.65	0.40	.034	----	1150	320	+	300	6.25B	1.45A
2500	.75	.80B	*.20	----	.30	0.40	.001	----	334	3122	+	445	5.50	.20
2505	.30	.50B	*.20A	----	.30	0.45	.001	----	117	117	UNCH	7.00B	1.55A	.20
2510	----	4.50B	*1.55A	----	2.85	0.45	.037	----	115	232	+	112	6.00	.20
2510	.35	.50B	*.20A	----	.30	0.50	.001	----	5	5	UNCH	8.00	1.60A	.20
2515	----	4.70B	*1.60A	----	3.00	0.45	.039	----	525	1187	+	485	8.25	.20A
2520	.30	.90B	*.20A	----	.40	0.55	.001	----	10	10	UNCH	8.50	1.65A	.20
2520	----	4.85B	*1.65A	----	3.10	0.45	.041	----	556	549	+	341	5.25	.20A
2520	.40	1.00B	*.20A	----	.35	0.55	.002	----	2888	3993	+	2421	8.80B	.20
2525	.90	1.05B	*.20	----	.35	0.60	.002	----	240	260	+	240	8.00B	1.80A
2530	3.90	5.25B	*1.80A	----	3.40	0.50	.045	----	2742	2946	+	2285	6.25	.20
2530	.45	1.10B	*.20	----	.40	0.60	.002	----	1270	925	+	483	9.50	.20
2535	----	5.50B	*1.85A	----	3.55	0.50	.048	----	1441	1142	+	990	5.25	.25
2535	.20	1.20B	*.20	----	.40	0.65	.002	----	46	46	UNCH	9.00B	2.05A	.20
2540	----	5.75B	*1.95A	----	3.75	0.50	.050	----	1636	1419	+	893	6.25	.25
2540	1.10	1.30B	*.25	----	.45	0.70	.003	----	4500	4759	+	3013	11.00	.25
2545	----	6.00B	*2.05A	----	3.90	0.55	.053	----	101	128	+	101	12.75	2.20A
2545	1.10	1.40B	*.25	----	.45	0.75	.003	----	797	1064	+	728	6.25	.25
2550	----	6.50B	*2.10A	----	4.10	0.55	.056	----	1	16	+	1	13.25	2.30A
2550	1.05	1.60	*.25	----	.50	0.75	.003	----	1200	2030	+	795	7.75	.25
2555	4.85	6.75B	*2.20A	----	4.35	0.50	.059	----	1493	1527	+	1106	10.50B	2.40A
2555	1.20	1.60B	*.25	----	.55	0.80	.004	----	32	32	UNCH	11.00B	2.55A	.30A
2560	5.50	7.00B	*2.30A	----	4.55	0.55	.063	----	3164	2689	+	1709	8.25	.30A
2560	1.20	1.70B	*.25	----	.55	0.85	.004	----	23	27	+	16	16.00	2.65A
2565	----	7.25B	*2.40A	----	4.80	0.50	.066	----	4006	3821	+	3577	7.75	.30A
2565	1.45	1.85B	*.30A	----	.60	0.90	.005	----	7	14	UNCH	11.75B	2.80A	.30
2570	----	7.75B	*2.55A	----	5.10	0.50	.070	----	180	447	+	126	8.50	.30
2570	1.50	1.95B	*.30A	----	.65	0.90	.005	----	1	123	+	1	15.00	2.95A
2575	5.75	8.00B	*2.65A	----	5.30	0.60	.074	----	481	624	+	155	8.50	.35
2575	1.60	2.10B	*.30A	----	.70	0.95	.006	----	2181	2351	+	1859	9.00	.35
2580	6.25	8.25B	*2.80A	----	5.60	0.50	.078	----	1	1	+	1	9.75B	3.25A
2580	1.70	2.30B	*.30	----	.75	1.00	.007	----	1093	1239	+	788	10.25	.40A
2585	5.00	8.75B	*2.95A	----	5.90	0.50	.083	----	1	27	-	1	15.50	3.45A
2585	2.00	2.45B	*.35	----	.80	1.10	.008	----	1431	2665	+	574	16.50	.40
2590	----	9.25B	*3.10A	----	6.20	0.50	.087	----	265	260	+	193	15.50	3.65A
2590	1.90	2.75B	.35A	----	.85	1.15	.008	----	704	831	+	473	17.25	.40
2595	4.75	#9.75B	*3.25A	----	6.60	NEW	.093	----	22	22	UNCH	17.50	3.85A	.45A
2595	2.00	2.95B	.40A	----	.95	1.20	.010	----	887	582	+	413	11.50	.45A
2600	4.45	10.00B	*3.45A	----	6.90	0.50	.098	----	240	241	+	185	16.75	4.05A
2600	2.40	3.15B	*.40	----	1.00	1.30	.011	----	271	331	+	174	14.75	.50A
2605	7.75	10.50B	*3.65A	----	7.30	0.50	.104	----	79	79	UNCH	17.75	4.30A	.45
2605	1.10	3.45B	.45	----	1.10	1.35	.012	----	394	600	+	272	19.75	.45
2610	----	11.25B	*3.85A	----	7.70	0.40	.110	----	1816	1605	+	1197	12.75	.50A
2610	1.65	3.70B	.50A	----	1.20	1.40	.014	----	2	2	+	2	13.50B	4.85A
2615	4.25	11.75B	*4.05A	----	8.10	0.40	.116	----	398	422	+	80	12.25	.55A
2615	1.90	3.95B	.50A	----	1.30	1.50	.016	----	367	217	+	179	18.75B	5.25A
2620	----	12.25B	*4.30A	----	8.50	0.40	.122	----	266	403	+	147	12.00	.55A
2620	3.30	4.60	.55A	----	1.40	1.60	.018	----	56	56	+	56	15.00B	5.50A
2625	----	13.00B	*4.55A	----	9.00	0.30	.130	----	1537	1059	+	261	23.75	.60A
2625	4.00	4.60B	.60A	----	1.55	1.70	.021	----	24	63	+	13	21.75	.60A
2630	9.25	#13.50B	*4.85A	----	9.50	NEW	.137	----	429	423	-	46	18.25	.60A
2630	4.00	5.00B	.65A	----	1.70	1.75	.023	----	226	167	+	156	21.50B	6.25A
2635	7.50	14.25B	*5.25A	----	10.00	0.30	.145	----	3393	2661	+	1910	18.00	.60A
2635	3.90	5.50B	.70	----	1.85	1.85	.027	----	36	65	+	29	22.75	6.50A
2640	7.25	#15.00B	*5.50A	----	10.50	NEW	.153	----	1340	902	+	645	27.25	.65A
2640	6.00	6.00	.75	----	2.05	1.95	.031	----	5	43	+	3	23.25B	7.00A
2645	7.50	15.75B	*5.75A	----	11.10	0.20	.162	----	1141	876	+	507	17.25	.70A
2645	3.05	6.25B	.80	----	2.25	2.05	.035	----	24	35	-	7	24.25B	7.50A
2650	10.50	16.50B	*6.25A	----	11.70	0.20	.171	----	826	722	+	526	18.50	.70A
2650	5.50	6.75B	.85A	----	2.45	2.15	.040	----	5	87	+	1	26.50	8.00A
2655	12.75	17.25B	*6.50A	----	12.40	0.10	.181	----	1038	751	+	267	25.25	.75A
2655	5.50	7.25B	.90A	----	2.70	2.20	.045	----	9	31	-	2	27.75	8.50A
2660	12.50	18.00B	*7.00A	----	13.10	UNCH	.192	----	1980	1419	+	754	25.50	.75A
2660	5.25	8.00B	1.00	----	2.95	2.35	.051	----	18	64	+	3	28.50	9.00A
2665	12.75	19.00B	*7.50A	----	13.90+	0.10	.203	----	49	19	-	36	27.00B	9.50A
2665	4.30	8.50B	1.05	----	3.25	2.45	.059	----	529	680	+	227	26.75	.80A
2670	10.00	20.00B	*8.00A	----	14.60+	0.10	.214	----	91	157	+	85	30.00B	10.00A
2670	8.25	9.25B	1.15	----	3.60	2.50	.067	----	411	853	+	151	28.25	.80
2675	15.75	21.00B	*8.50A	----	15.50+	0.20	.227	----	18	60	UNCH	33.50	10.75A	.85A
2675	8.25	10.00B	1.30A	----	4.00	2.60	.078	----	445	319	-	44	41.00	11.50A
2680	16.75	22.00B	*9.00A	----	16.40+	0.30	.240	----	31	29	+	29	26.50B	11.50A
2680	8.50	10.75B	1.45A	----	4.45	2.65	.089	----	1406	1962	+	611	39.25	.90A
2685	17.25	23.00B	*9.50A	----	17.30+	0.40	.253	----	108	108	+	108	27.75B	12.25A
2685	9.50	11.50B	1.60A	----	4.90	2.70	.101	----	808	531	+	281	37.75	.90A
2690	17.75	24.25B	*10.00A	----	18.30+	0.50	.267	----	18	25	+	16	35.75B	13.00A
2690	11.75	12.50B	1.75A	----	5.50	2.80	.117	----	1344	1357	+	777	40.25	1.00A
2695	13.00	25.25B	*10.75A	----	19.40+	0.70	.282	----	107	125	+			



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Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple columns of numerical data representing option prices and volumes.

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PG48 BULLETIN #199@ E-MINI S&P 500 PUT OPTIONS Mon, Oct 15, 2018 PG48

Table with multiple columns containing option prices, strikes, and volumes for E-MINI S&P 500 PUT OPTIONS. Includes a 'TOTAL' row at the bottom of the main data block.

Table with columns for RTM EOM, OCT18, and (FUTURES SETT. .00) showing option prices and volumes for various strikes.

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PG48 BULLETIN #199@ E-MINI S&P 500 PUT OPTIONS Mon, Oct 15, 2018 PG48

Table with columns for contract numbers (e.g., 1480, 1485), prices (e.g., 5.00, 4.50), and various market data points. Includes a 'TOTAL' row and a 'NOV18 RTM EOM' section at the bottom.

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Table with columns: PG48, BULLETIN #199@, E-MINI S&P 500 PUT OPTIONS, Mon, Oct 15, 2018, PG48. Contains multiple rows of market data for S&P 500 put options, including strike prices, bid/ask quotes, and volume.

E-MINI S&P 500 FIXING PRICE (ESF): Mar19 2754.09

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PG48 BULLETIN #199@

E-MINI S&P 500 PUT OPTIONS

Mon, Oct 15, 2018 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 E-MINI S&P 500 OPTIONS							
DEC18 EZ	1925	----	----	----	----	1	0.00
EZ	2000	----	----	----	----	7	0.00
EZ	2010	----	----	----	----	8	0.00
TOTALS		0	0	0	0	16	0
MAR19 CALL E-MINI S&P 500 OPTIONS							
EZ	1825	----	----	----	----	4313	0.00
EZ	1900	----	----	----	----	1409	0.00
TOTALS		0	0	0	0	5722	0
EMINI S&P PUT E-MINI S&P 500 OPTIONS							
DEC18 EZ	3200	----	----	----	349	349	0.00
EZ	3250	----	----	----	2	2	0.00
TOTALS		0	0	0	351	351	0
EOW2 MINI S&P C EOW2 E-MINI S&P 500 OPTIONS							
OCT18 EW2	100	----	----	----	----	300	0.00
EW2	2300	----	----	----	----	39	0.00
EW2	2400	----	----	----	----	1	0.00
EW2	2600	----	----	----	----	1	0.00
EW2	2650	----	----	----	----	14	0.00
EW2	2655	----	----	----	----	10	0.00
EW2	2660	----	----	----	----	2	0.00
EW2	2670	----	----	----	----	1	0.00
EW2	2675	----	----	----	----	1	0.00
EW2	2685	----	----	----	----	1	0.00
EW2	2690	----	----	----	----	1	0.00
EW2	2695	----	----	----	----	2	0.00
EW2	2700	----	----	----	----	470	0.00
EW2	2705	----	----	----	----	2	0.00
EW2	2710	----	----	----	----	8	0.00
EW2	2715	----	----	----	----	6	0.00
EW2	2720	----	----	----	----	923	0.00
EW2	2725	----	----	----	----	159	0.00
EW2	2730	----	----	----	----	354	0.00
EW2	2735	----	----	----	----	784	0.00
EW2	2740	----	----	----	----	1459	0.00
EW2	2745	----	----	----	----	535	0.00
EW2	2750	----	----	----	----	2397	0.00
EW2	2755	----	----	----	----	1984	0.00
EW2	2760	----	----	----	----	2561	0.00
EW2	2765	----	----	----	----	1124	0.00
TOTALS		0	0	0	0	13139	0
EOW2 MINI S&P P EOW2 E-MINI S&P 500 OPTIONS							
OCT18 EW2	2770	----	----	----	----	3892	0.00
EW2	2775	----	----	----	----	2447	0.00
EW2	2780	----	----	----	----	2714	0.00
EW2	2785	----	----	----	----	1365	0.00
EW2	2790	----	----	----	----	3498	0.00
EW2	2795	----	----	----	----	1896	0.00
EW2	2800	----	----	----	----	6316	0.00
EW2	2805	----	----	----	----	2443	0.00
EW2	2810	----	----	----	----	2516	0.00
EW2	2815	----	----	----	----	1501	0.00
EW2	2820	----	----	----	----	3134	0.00
EW2	2825	----	----	----	----	2151	0.00
EW2	2830	----	----	----	----	2741	0.00
EW2	2835	----	----	----	----	1551	0.00
EW2	2840	----	----	----	----	2807	0.00
EW2	2845	----	----	----	----	1464	0.00
EW2	2850	----	----	----	----	4228	0.00
EW2	2855	----	----	----	----	1605	0.00
EW2	2860	----	----	----	----	3052	0.00
EW2	2865	----	----	----	----	1700	0.00
EW2	2870	----	----	----	----	2638	0.00
EW2	2875	----	----	----	----	1851	0.00
EW2	2880	----	----	----	----	2144	0.00
EW2	2885	----	----	----	----	1747	0.00
EW2	2890	----	----	----	----	2207	0.00
EW2	2895	----	----	----	----	1099	0.00
EW2	2900	----	----	----	----	2124	0.00
EW2	2905	----	----	----	----	1824	0.00
EW2	2910	----	----	----	----	2817	0.00

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PG48	BULLETIN #199@	E-MINI S&P 500 PUT OPTIONS					Mon, Oct 15, 2018	PG48
EW2	2915	----	----	----	----	1050	0.00	
EW2	2920	----	----	----	----	1667	0.00	
EW2	2925	----	----	----	----	1354	0.00	
EW2	2930	----	----	----	----	985	0.00	
EW2	2935	----	----	----	----	426	0.00	
EW2	2940	----	----	----	----	556	0.00	
EW2	2945	----	----	----	----	357	0.00	
EW2	2950	----	----	----	----	220	0.00	
EW2	2955	----	----	----	----	58	0.00	
EW2	2960	----	----	----	----	91	0.00	
EW2	2965	----	----	----	----	59	0.00	
EW2	2970	----	----	----	----	275	0.00	
EW2	2975	----	----	----	----	12	0.00	
EW2	2980	----	----	----	----	81	0.00	
EW2	2985	----	----	----	----	3	0.00	
EW2	2990	----	----	----	----	51	0.00	
EW2	2995	----	----	----	----	2	0.00	
EW2	3000	----	----	----	----	73	0.00	
EW2	3005	----	----	----	----	38	0.00	
EW2	3010	----	----	----	----	1	0.00	
EW2	3015	----	----	----	----	21	0.00	
EW2	3020	----	----	----	----	1	0.00	
TOTALS		0	0	0	0	78853	0	
MMW MID		E-MINI S&P 500 MONDAY WEEKLY OPT						
OCT18	CALL							
E3A	2500	----	----	----	2	2	0.00	
E3A	2630	----	----	----	1	1	0.00	
E3A	2660	----	----	----	2	2	0.00	
E3A	2665	----	----	----	1	1	0.00	
E3A	2670	----	----	----	1	1	0.00	
E3A	2675	----	----	----	2	2	0.00	
E3A	2685	----	----	----	1	1	0.00	
E3A	2690	----	----	----	2	2	0.00	
E3A	2695	----	----	----	5	5	0.00	
E3A	2700	----	----	----	15	15	0.00	
E3A	2705	----	----	----	12	12	0.00	
E3A	2710	----	----	----	13	13	0.00	
E3A	2715	----	----	----	7	7	0.00	
E3A	2720	----	----	----	10	10	0.00	
E3A	2725	----	----	----	311	311	0.00	
E3A	2730	----	----	----	55	55	0.00	
E3A	2735	----	----	----	112	112	0.00	
E3A	2740	----	----	----	106	106	0.00	
E3A	2745	----	----	----	446	446	0.00	
E3A	2750	----	----	----	475	475	0.00	
TOTALS		0	0	0	1579	1579	0	
MMW MID		E-MINI S&P 500 MONDAY WEEKLY OPT						
OCT18	PUT							
E3A	2755	----	----	----	1178	1178	0.00	
E3A	2760	----	----	----	1407	1407	0.00	
E3A	2765	----	----	----	1205	1205	0.00	
E3A	2770	----	----	----	1000	1000	0.00	
E3A	2775	----	----	----	1088	1088	0.00	
E3A	2780	----	----	----	660	660	0.00	
E3A	2785	----	----	----	132	132	0.00	
E3A	2790	----	----	----	1934	1934	0.00	
E3A	2795	----	----	----	877	877	0.00	
E3A	2800	----	----	----	1219	1219	0.00	
E3A	2805	----	----	----	589	589	0.00	
E3A	2810	----	----	----	595	595	0.00	
E3A	2815	----	----	----	107	107	0.00	
E3A	2820	----	----	----	690	690	0.00	
E3A	2825	----	----	----	652	652	0.00	
E3A	2830	----	----	----	427	427	0.00	
E3A	2835	----	----	----	328	328	0.00	
E3A	2840	----	----	----	557	557	0.00	
E3A	2845	----	----	----	349	349	0.00	
E3A	2850	----	----	----	514	514	0.00	
E3A	2855	----	----	----	130	130	0.00	
E3A	2860	----	----	----	403	403	0.00	
E3A	2865	----	----	----	453	453	0.00	
E3A	2870	----	----	----	236	236	0.00	
E3A	2875	----	----	----	304	304	0.00	
E3A	2880	----	----	----	414	414	0.00	
E3A	2885	----	----	----	92	92	0.00	
E3A	2890	----	----	----	133	133	0.00	
E3A	2895	----	----	----	88	88	0.00	
E3A	2900	----	----	----	105	105	0.00	

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PG48	BULLETIN #199@	E-MINI S&P 500 PUT OPTIONS					Mon, Oct 15, 2018	PG48
E3A	2905	----	----	----	77	77	0.00	
E3A	2910	----	----	----	70	70	0.00	
E3A	2915	----	----	----	32	32	0.00	
E3A	2920	----	----	----	42	42	0.00	
E3A	2925	----	----	----	310	310	0.00	
E3A	2930	----	----	----	21	21	0.00	
E3A	2935	----	----	----	54	54	0.00	
E3A	2940	----	----	----	191	191	0.00	
E3A	2945	----	----	----	92	92	0.00	
E3A	2950	----	----	----	2	2	0.00	
E3A	2955	----	----	----	5	5	0.00	
E3A	2960	----	----	----	2	2	0.00	
E3A	2965	----	----	----	1	1	0.00	
E3A	2985	----	----	----	1	1	0.00	
TOTALS		0	0	0	18766	18766	0	