



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



PRELIMINARY

PG48 BULLETIN # 11@

E-MINI S&P 500 PUT OPTIONS

wed, Jan 16, 2019 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 list various contract specifications from 1775 to 2550.

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Table with columns: PG48, BULLETIN # 11@, E-MINI S&P 500 PUT OPTIONS, wed, Jan 16, 2019, PG48. Contains multiple columns of price and volume data for various strike prices.

WK EW-W2 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 data for various strike prices from 1600 to 2530.

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WK EW-W4 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 contract specifications and market data for E-mini S&P 500 puts.

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Table with columns: PG48, BULLETIN # 11@, E-MINI S&P 500 PUT OPTIONS, Wed, Jan 16, 2019, PG48. Contains bid/ask data for various strike prices.

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 market data for S&P 500 puts.

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PG48	BULLETIN # 11@	E-MINI S&P 500 PUT OPTIONS										Wed, Jan 16, 2019	PG48
2215	----	----	*6.25A	----	7.10-	30	.053	----	----	470	UNCH	77.50B	6.25A
2220	6.25	7.25B	*6.25	----	7.30-	20	.055	----	7	16644	-	88.50B	6.25
2225	7.25	7.25	*6.50	----	7.50-	20	.056	----	515	5439	+	89.50B	6.50
2230	6.75	7.50B	*6.75	----	7.70-	20	.058	----	80	6852	UNCH	90.50B	6.75
2235	7.50	8.25B	*7.00A	----	7.90-	20	.060	----	2	298	-	83.75B	7.00A
2240	----	----	*7.00A	----	8.10-	20	.061	----	2	5877	UNCH	92.75B	7.00A
2245	7.50	8.25B	*7.25	----	8.40-	10	.063	----	12	1578	+	87.00B	7.25
2250	8.25	8.50B	*7.50	----	8.60-	20	.065	----	1389	9663	-	94.75B	7.50
2255	7.75	8.75B	*7.75	----	8.80-	20	.067	----	1	611	+	90.25B	7.75
2260	8.25	8.75B	*7.75A	----	9.00-	30	.068	----	2	6988	UNCH	97.00B	7.75A
2265	9.25	9.75B	*8.00A	----	9.20-	30	.070	----	117	691	-	94.00B	8.00A
2270	8.25	10.00B	*8.25	----	9.50-	30	.072	----	8	1417	UNCH	99.25B	8.25
2275	9.00	10.25B	*8.50	----	9.70-	40	.074	----	196	4752	UNCH	100.50B	8.50
2280	9.00	10.00	*8.75A	----	10.00-	40	.076	----	8	5965	+	101.50B	8.75A
2285	9.25	10.25B	*9.00	----	10.30-	40	.079	----	13	608	-	101.25B	9.00
2290	10.00	10.50B	*9.25A	----	10.60-	40	.081	----	2261	5583	-	103.75B	9.25A
2295	11.00	11.50B	*9.50A	----	10.90-	40	.084	----	19	1584	-	105.25B	9.50A
2300	11.50	11.75B	9.75	----	11.20-	40	.086	----	2891	16945	+	108.00	9.75
2305	11.50	12.00B	*10.00	----	11.50-	50	.088	----	42	3019	-	109.25B	10.00
2310	10.75	12.50B	*10.25A	----	11.80-	50	.091	----	47	4372	-	111.25B	10.25A
2315	11.00	12.00B	10.50A	----	12.20-	50	.094	----	17	2829	+	113.25B	10.50A
2320	10.75	12.25B	10.75	----	12.50-	50	.096	----	10	1567	-	115.50B	10.75A
2325	11.75	12.75	11.00	----	12.90-	50	.099	----	620	3197	-	117.75B	11.00A
2330	12.25	13.00B	11.50A	----	13.20-	60	.102	----	15	4163	-	119.75B	11.25A
2335	13.25	13.50B	11.75A	----	13.60-	60	.105	----	39	1148	+	122.00B	11.00
2340	12.25	14.75B	12.00	----	14.00-	60	.108	----	294	2158	+	124.25B	11.75A
2345	13.25	14.00B	12.50A	----	14.40-	60	.111	----	6	935	+	126.75B	12.00A
2350	15.00	15.50B	12.75A	----	14.80-	70	.114	----	2017	6071	+	129.00B	12.25
2355	15.00	15.00	13.25A	----	15.20-	70	.118	----	11	10445	UNCH	131.25B	12.50A
2360	14.00	15.25	13.50A	----	15.60-	80	.121	----	66	1666	-	133.75B	12.75
2365	15.25	17.00B	14.00A	----	16.00-	80	.124	----	30	309	+	136.25B	13.00A
2370	14.50	17.50B	14.25	----	16.50-	80	.128	----	1405	2881	+	138.75B	13.25A
2375	16.75	18.00B	14.75A	----	16.90-	90	.131	----	375	1505	-	141.25B	13.50A
2380	16.50	18.50B	15.25A	----	17.40-	90	.135	----	52	1080	+	143.75B	13.75
2385	16.25	17.50B	15.50A	----	17.90-	90	.139	----	164	2355	UNCH	146.50B	14.00A
2390	17.00	19.50B	16.00A	----	18.40-	90	.143	----	244	1781	+	149.00B	14.25A
2395	17.25	20.00B	16.50A	----	18.90-	90	.147	----	63	615	+	151.75B	14.75A
2400	19.75	20.50B	17.00	----	19.40-	100	.151	----	5425	20717	+	154.50B	14.75
2405	18.25	21.25B	17.50A	----	20.00-	90	.156	----	77	795	+	157.25B	15.25A
2410	20.25	21.75B	18.00A	----	20.50-	100	.160	----	92	965	+	160.00B	15.25A
2415	19.75	22.50B	18.50	----	21.10-	100	.165	----	150	680	-	162.75B	16.00A
2420	21.00	23.00B	19.00A	----	21.70-	100	.169	----	281	2157	+	165.50B	15.75A
2425	20.50	23.75B	19.50A	----	22.30-	100	.174	----	99	4957	-	168.50B	16.00A
2430	21.25	24.25B	20.00A	----	22.90-	110	.179	----	35	2784	UNCH	171.50B	16.25A
2435	21.25	25.00B	20.50	----	23.50-	120	.184	----	49	1158	+	174.50B	17.50A
2440	23.50	25.75B	21.25A	----	24.20-	120	.189	----	377	1127	+	177.50B	16.75A
2445	24.25	26.50B	22.00A	----	24.80-	130	.194	----	194	535	+	180.50B	18.25A
2450	27.25	27.25	22.50	----	25.50-	130	.200	----	3608	14572	+	183.50B	17.00
2455	23.50	28.00B	23.25A	----	26.20-	140	.205	----	106	2175	+	186.75B	19.00A
2460	28.00	28.75B	23.75	----	27.00-	140	.211	----	262	1046	+	190.00B	17.75A
2465	25.75	29.75B	24.50A	----	27.80-	140	.217	----	2058	4887	+	193.00B	19.75A
2470	29.00	30.50B	25.25A	----	28.60-	150	.224	----	26	1238	-	196.25B	18.25A
2475	30.00	31.50B	26.00A	----	29.40-	160	.230	----	847	3527	-	199.75B	18.50A
2480	28.50	32.50B	26.75	----	30.30-	160	.237	----	48	5460	-	203.00B	18.75A
2485	29.25	33.25B	27.50A	----	31.20-	160	.243	----	2030	2648	+	206.25B	21.50A
2490	----	34.50B	28.25A	----	32.10-	170	.250	----	98	2383	+	209.75B	19.50A
2495	31.00	35.25B	29.25A	----	33.10-	170	.258	----	144	3018	-	213.25B	22.25A
2500	36.75	36.75	29.75	----	34.00-	180	.265	----	1539	14946	+	216.75B	20.00A
2505	34.00	37.50B	30.75A	----	35.00-	180	.272	----	19	170	-	220.25B	23.25A
2510	35.50	38.25B	31.75A	----	36.00-	190	.280	----	94	3398	-	223.75B	20.50A
2515	35.75	39.75B	32.75A	----	37.00-	200	.288	----	136	624	+	227.50B	24.25A
2520	35.00	40.75B	33.75A	----	38.10-	200	.296	----	366	2396	+	231.00B	21.25A
2525	37.50	42.00B	34.75A	----	39.20-	200	.304	----	790	2129	+	234.75B	21.50A
2530	36.50	43.25B	35.75A	----	40.30-	210	.312	----	55	2029	+	238.50B	22.00A
2535	38.50	44.50B	36.75A	----	41.50-	210	.321	----	1704	1902	+	242.25B	26.50A
2540	45.75	45.75	38.00A	----	42.70-	220	.330	----	292	1700	+	246.00B	22.50
2545	43.25	46.75B	39.00A	----	44.00-	220	.339	----	93	391	+	250.00B	27.50A
2550	46.00	48.50B	40.25	----	45.30-	220	.348	----	1608	7712	+	253.75B	23.25A
2555	44.00	50.00B	41.50	----	46.60-	230	.358	----	270	532	+	257.75B	28.75A
2560	50.00	51.50B	42.75A	----	48.00-	230	.368	----	539	1187	+	261.50B	24.00A
2565	45.50	53.00B	44.00A	----	49.40-	240	.378	----	178	628	+	265.50B	30.00A
2570	50.00	54.50B	45.25A	----	50.90-	250	.388	----	787	1222	-	269.50B	24.75A
2575	52.75	56.00B	46.75A	----	52.40-	260	.399	----	594	4563	+	273.75B	25.25A
2580	54.75	57.75B	48.25	----	54.00-	270	.410	----	86	2343	-	277.75B	25.50
2585	50.25	59.50B	49.75A	----	55.70-	270	.421	----	71	724	-	281.75B	32.50A
2590	59.75	61.25B	51.25A	----	57.40-	270	.432	----	953	1474	-	286.00B	26.50A
2595	58.25	63.00B	52.75A	----	59.10-	280	.443	----	213	451	-	290.25B	34.00A
2600	63.00	65.00B	54.50	----	60.90-	290	.455	----	2380	8843	-	294.50B	27.25
2605	65.50	66.75B	56.25A	----	62.80-	290	.467	----	298	520	+	298.75B	35.50A
2610	66.25	68.75B	58.00A	----	64.70-	300	.479	----	410	1269	+	303.00B	28.25A
2615	64.25	70.75B	59.75A	----	66.60-	320	.492	----	209	518	+	307.25B	37.00A
2620	67.50	73.00B	61.50A	----	68.50-	340	.504	----	1020	1443	+	311.50B	29.00A
2625	66.25	75.25B	63.50A	----	70.60-	350	.517	----	80	1545	+	316.00B	29.50A
2630	66.75	77.50B	65.75A	----	72.70-	370	.530	----	338	1518	+	320.50B	30.00A
2635	70.25	79.75B	67.75A	----	74.90-	390	.543	----	23	784	+	324.75B	30.50A
2640	72.50	82.50B	70.00A	----	77.30-	400	.556	----	11	1007	-	329.25B	31.00A
2645	74.75	85.00B	72.25A	----	79.70-	410	.570	----	5	355	UNCH	333.75B	31.50A
2650	84.50	87.50B	74.50A	----	82.30-	410	.583	----	179	5691	+	338.25B	32.00A
2655	79.25	90.25B	76.75A	----	84.90-	410	.596	----	18	207	-	342.75B	32.50A
2660	84.00	93.00B	79.25A	----	87.60-	420	.610	----	28	1649	-	347.25B	33.00A
2665	85.50	95.75B	81.75A	----	90.40-	420	.623	----	8	509	+	351.75B	33.50A
2670	86.75	98.50B	84.50A	----	93.20-	430	.637	----	18	1132	+	356.50B	34.25A
2675	93.00	101.25B	87.00A	----	96.10-	440	.650	----	11	2621	+	361.00B	34.75A
2680	95.00	104.50B	90.00A	----	99.00-	450	.664	----	3	1566	+	365.75B	35.25A
2685	97.00	107.50B	92.75A	----	102.00-	460	.677	----					



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2650	----	160.25B	148.75A	----	155.60-	440	.502	----	30	769 +	30	369.00B	74.00A
2660	156.00	164.75B	153.00A	----	159.90-	450	.514	----	18	618 +	18	376.50B	75.75A
2670	----	169.25B	157.25A	----	164.30-	460	.526	----	----	605	UNCH	384.25B	77.50A
2675	----	171.50B	159.50A	----	166.50-	470	.532	----	----	521	UNCH	388.00B	78.50A
2680	----	173.75B	161.75A	----	168.80-	470	.538	----	----	237	UNCH	392.00B	79.25A
2690	----	178.50B	166.25A	----	173.50-	480	.550	----	----	319	UNCH	399.75B	81.25A
2700	----	----	170.75A	----	178.20-	500	.562	----	----	3374	UNCH	407.75B	83.00
2710	----	----	175.50A	----	183.10-	510	.575	----	----	524	UNCH	415.75B	85.00A
2720	----	----	180.50A	----	188.10-	520	.587	----	----	196	UNCH	424.00B	86.75A
2725	----	----	182.75A	----	190.70-	530	.593	----	----	641	UNCH	428.00B	87.75A
2730	----	----	185.50A	----	193.30-	530	.600	----	----	167	UNCH	432.25B	88.75A
2740	----	----	190.50A	----	198.60-	540	.612	----	----	521	UNCH	440.50B	91.00A
2750	----	----	195.75A	----	204.00-	560	.625	----	----	809	UNCH	449.00B	93.00
2760	----	----	201.25A	----	209.60-	570	.638	----	----	201	UNCH	457.50B	95.00A
2770	----	----	206.75A	----	215.30-	580	.650	----	----	3	UNCH	466.00B	97.25A
2775	----	----	209.50A	----	218.20-	580	.657	----	----	399	UNCH	470.25B	98.50A
2780	----	----	212.50A	----	221.20-	580	.663	----	----	51	UNCH	474.50B	99.50
2800	----	----	224.25A	----	233.40-	590	.688	----	----	2218	UNCH	492.00B	104.25A
2810	----	----	230.50A	----	239.70-	600	.700	----	----	252	UNCH	501.00B	106.50A
2820	----	----	236.75A	----	246.10-	610	.713	----	----	350	UNCH	509.75B	109.00A
2825	----	----	240.00A	----	249.40-	620	.719	----	----	17	UNCH	514.25B	110.25A
2840	----	----	250.50A	----	259.50-	620	.737	----	----	30	UNCH	527.75B	114.00A
2850	----	----	257.25A	----	266.40-	630	.749	----	----	350	UNCH	536.75B	116.75A
2875	----	----	275.00A	----	284.30-	650	.778	----	----	66	UNCH	559.75B	123.50A
2890	----	----	286.00A	----	295.40-	670	.795	----	----	25	UNCH	573.50B	128.00A
2900	----	----	293.50A	----	303.10-	670	.805	----	----	482	UNCH	582.75B	130.75A
2925	----	----	312.75A	----	322.70-	700	.831	----	----	1	UNCH	606.25B	138.75A
2930	----	----	316.75A	----	326.80-	700	.836	----	----	150	UNCH	611.00B	140.25A
2940	----	----	324.75A	----	334.90-	710	.845	----	----	282	UNCH	620.50B	143.50A
2950	----	----	333.00A	----	343.20-	720	.854	----	----	281	UNCH	630.00B	147.00A
2970	----	----	349.75A	----	360.20-	720	.871	----	----	125	UNCH	598.75B	154.00A
2975	----	----	354.00A	----	364.50-	730	.875	----	----	116	UNCH	603.50B	155.75A
2980	----	----	358.25A	----	368.80-	730	.879	----	----	49	UNCH	608.25B	157.75A
2990	----	----	367.00A	----	377.50-	740	.886	----	----	46	UNCH	617.75B	161.50A
3000	----	----	375.75A	----	386.40-	740	.893	----	----	346	UNCH	653.00	165.25A
3010	----	----	384.50A	----	395.30-	750	.900	----	----	2	UNCH	613.50B	169.25A
3020	----	----	393.50A	----	404.30-	760	.906	----	----	115	UNCH	623.00B	173.50A
3025	----	----	398.00A	----	408.80-	760	.909	----	----	4	UNCH	627.50B	175.50A
3030	----	----	402.50A	----	413.40-	760	.912	----	----	3	UNCH	632.50B	177.75A
3040	----	----	411.75A	----	422.60-	760	.918	----	----	25	UNCH	642.25B	182.00A
3050	----	----	421.00A	----	431.90-	760	.923	----	----	26	UNCH	651.75B	186.50A
3060	----	----	430.25A	----	441.20-	770	.928	----	----	25	UNCH	661.50B	191.00A
3070	----	----	439.50A	----	450.60-	770	.932	----	----	39	UNCH	671.00B	195.75A
3075	----	----	444.25A	----	455.30-	780	.935	----	----	79	UNCH	676.00B	198.25A
3080	----	----	449.00A	----	460.00-	780	.936	----	----	79	UNCH	680.75B	200.50A
3090	----	----	----	----	469.50-	790	.941	----	----	42	UNCH	690.50B	205.50A
3100	----	----	----	----	479.10-	780	.944	----	----	242	UNCH	700.25B	210.75A
3110	----	----	----	----	488.70-	790	.948	----	----	6	UNCH	534.00B	216.75A
3130	----	----	----	----	508.00-	800	.954	----	----	1	UNCH	552.25B	227.75A
3150	----	----	----	----	527.50-	800	.959	----	----	6	UNCH	571.00B	239.50A
TOTAL									1703	97912 +	384		
DEC19	EMINI S&P PUT												
1075	1.35	1.40	1.30A	----	1.40+	5	.004	----	25	183 +	25	3.45B	1.15
1100	1.45	1.50B	*1.45	----	1.55	UNCH	.004	----	3	165	UNCH	3.90B	1.45
1150	----	----	1.90A	----	1.95	UNCH	.005	----	----	22	UNCH	4.85B	1.90A
1200	----	----	2.30A	----	2.45+	5	.007	----	----	15	UNCH	5.75B	2.30A
1225	----	----	*2.50A	----	2.70	UNCH	.008	----	----	10	UNCH	6.50B	2.50A
1300	----	----	*3.30A	----	3.60-	5	.010	----	----	13	UNCH	10.75B	3.30A
1325	----	----	*3.65A	----	3.95-	5	.011	----	----	7	UNCH	11.75B	3.65A
1350	3.85	4.05B	*3.85	----	4.35-	5	.013	----	4	7 +	4	13.00B	3.85
1375	----	----	*4.35A	----	4.75-	10	.014	----	----	5	UNCH	14.25B	4.35A
1400	----	----	*4.75A	----	5.20-	10	.015	----	----	2	UNCH	15.50B	4.75A
1450	----	----	*5.75A	----	6.20-	10	.018	----	----	9	UNCH	18.50B	5.75A
1475	----	----	*6.25A	----	6.70-	20	.020	----	----	27	UNCH	20.00B	6.25A
1500	7.00	7.00	*6.75A	----	7.30-	20	.022	----	6	70 +	3	21.75B	6.75A
1525	----	----	*7.50A	----	7.90-	20	.024	----	----	82	UNCH	23.50B	7.50A
1550	----	----	*8.00A	----	8.50-	30	.025	----	----	200	UNCH	25.50B	8.00A
1575	----	----	*8.75A	----	9.30-	30	.028	----	----	22	UNCH	27.75B	8.75A
1600	9.75	9.75	*9.50A	----	10.10-	30	.030	----	2	380	UNCH	29.75B	9.50A
1625	----	----	*10.25A	----	10.90-	40	.033	----	----	28	UNCH	32.25B	10.25A
1650	----	----	*11.25A	----	11.90-	40	.036	----	----	12	UNCH	34.75B	11.25A
1675	----	----	*12.25A	----	12.90-	40	.039	----	----	3	UNCH	37.50B	12.25A
1700	----	----	*13.25A	----	14.00-	50	.042	----	----	36	UNCH	40.50B	13.25A
1725	----	----	*14.25A	----	15.20-	50	.046	----	----	1066	UNCH	43.50B	14.25A
1750	----	----	*15.25A	----	16.40-	60	.049	----	----	206	UNCH	46.75B	15.25A
1775	----	----	*16.75A	----	17.80-	60	.053	----	----	14	UNCH	50.25B	16.75A
1800	----	----	*18.00A	----	19.20-	60	.058	----	----	339	UNCH	53.75B	18.00A
1825	----	----	*19.25A	----	20.60-	80	.062	----	1	71 +	1	57.75B	19.25A
1850	----	----	*21.00A	----	22.20-	90	.067	----	----	399	UNCH	61.75B	21.00A
1860	----	----	*21.50A	----	22.90-	80	.069	----	----	3	UNCH	51.50B	21.50A
1875	----	----	*22.50A	----	23.90-	90	.072	----	----	229	UNCH	66.00B	22.50A
1880	----	----	*22.75A	----	24.30-	90	.073	----	----	1	UNCH	54.50B	22.75A
1900	----	----	*24.25A	----	25.70-	100	.077	----	3	30 +	3	70.75B	24.25A
1910	----	----	*25.00A	----	26.50-	100	.080	----	----	1	UNCH	59.00B	25.00A
1920	----	----	*25.75A	----	27.30-	100	.082	----	----	2	UNCH	60.75B	25.75A
1925	----	----	*26.00A	----	27.60-	110	.083	----	----	75	UNCH	75.50B	26.00A
1950	----	----	*28.00A	----	29.70-	120	.089	----	----	447	UNCH	80.50B	28.00A
1970	----	----	*29.75A	----	31.50-	120	.094	----	----	1	UNCH	84.75B	29.75A
1975	----	----	*30.25A	----	31.90-	130	.096	----	1	6 +	1	86.00B	30.25A
1990	32.00	32.75B	*31.50A	----	33.30-	130	.100	----	1	83 +	1	89.25B	31.50A
2000	34.25	34.25	*32.50A	----	34.30-	130	.103	----	6	1692 +	1	91.50B	32.50A
2010	----	----	*33.25A	----	35.30-	130	.106	----	----	502	UNCH	94.00B	33.25A
2020	----	----	*34.25A	----	36.30-	140	.109	----	----	1	UNCH	96.25B	34.25A
2025	----	----	*34.75A	----	36.80-	140	.110	----	----	1005	UNCH	97.50B	34.75A
2050	----	----	*37.25A	----	39.50-	140	.118	----	----	1700	UNCH	103.75B	37.25A
2060	----	----	*38.50A	----	40.60-	140	.121	----	----	4	UNCH	106.50B	38.50A
2070	----	----	*39.50A	----	41.70-	150	.124	----	----	2	UNCH	109.00B	39.50A
2075	----	----	*40.00A	----	42.30-	150	.126	----	----	2	UNCH	110.50B	40.00A
2080	----	----	*40.75A	----	42.90-	150	.128	----	----	4	UNCH	111.75B	40.75A
2100	----	----	*43.00A	----	45.30-	150	.135	----	----	3101	UNCH	117.25B	43.00A
2110	----	----	*44.25A	----	46.50-	160	.138	----	----	37	UNCH	120.25B	44.25A
2150	----	----	*49.25A	----	51.80-	170	.154	----	----	853	UNCH	132.00B	49.25A
2160	----	----	*50.50A	----	53.20-	180	.158	----	----	225	UNCH	135.25B	50.50A
2170	52.50	54.00B	*52.00A	----	54.70-	170	.162	----	40	118 +	40</		



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Table with columns: PG48, BULLETIN # 11@, E-MINI S&P 500 PUT OPTIONS, wed, Jan 16, 2019, PG48. Rows include contract details like 2470, 2475, 2480, etc., with associated prices and volumes.

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PG48	BULLETIN # 11@	E-MINI S&P 500 PUT OPTIONS								wed, Jan 16, 2019			PG48
2770	----	----	----	----	----	157.40-	760	.979	----	117	UNCH	375.25B	33.75A
2775	----	----	----	----	----	162.30-	760	.980	----	211	UNCH	380.25B	34.50A
2780	----	----	----	----	----	167.20-	770	.982	----	18	UNCH	385.25B	35.25A
2785	----	----	----	----	----	172.20-	760	.983	----	162	UNCH	385.50B	36.00A
2790	----	----	----	----	----	177.10-	770	.985	----	132	UNCH	390.25B	36.75A
2795	----	----	----	----	----	182.10-	760	.986	----	82	UNCH	369.50B	37.50A
2800	----	----	----	----	----	187.00-	770	.988	----	324	UNCH	374.25B	38.25A
2805	----	----	----	----	----	192.00-	770	.989	----	41	UNCH	379.25B	39.00A
2810	----	----	----	----	----	196.90-	770	.989	----	40	UNCH	384.25B	40.00A
2815	----	----	----	----	----	201.90-	770	.991	----	90	UNCH	389.00B	40.75A
2820	----	----	----	----	----	206.90-	770	.991	----	8	UNCH	394.00B	41.75A
2825	----	----	----	----	----	211.90-	770	.992	----	162	UNCH	399.00B	42.50A
2830	----	----	----	----	----	216.80-	770	.993	----	219	UNCH	404.00B	43.50A
2835	----	----	----	----	----	221.80-	770	.994	----	39	UNCH	408.75B	44.50A
2840	----	----	----	----	----	226.80-	770	.994	----	54	UNCH	413.75B	45.25A
2845	----	----	----	----	----	231.80-	770	.994	----	308	UNCH	418.75B	46.25A
2850	----	----	----	----	----	236.70-	780	.995	----	3619	UNCH	423.75B	47.50A
2855	----	----	----	----	----	241.70-	780	.995	----	5	UNCH	428.50B	48.50A
2860	----	----	----	----	----	246.70-	770	.995	----	207	UNCH	433.50B	49.50A
2865	----	----	----	----	----	251.70-	770	.995	----	22	UNCH	438.50B	50.50A
2870	----	----	----	----	----	256.70-	770	.996	----	66	UNCH	443.50B	51.75A
2875	----	----	----	----	----	261.70-	770	.997	----	239	UNCH	448.50B	53.00A
2880	----	----	----	----	----	266.60-	780	.997	----	19	UNCH	453.50B	54.25A
2885	----	----	----	----	----	271.60-	780	.997	----	46	UNCH	458.25B	55.25A
2890	----	----	----	----	----	276.60-	780	.997	----	23	UNCH	463.25B	56.50A
2895	----	----	----	----	----	281.60-	780	.997	----	73	UNCH	468.25B	58.00A
2900	----	----	----	----	----	286.60-	780	.997	----	119	UNCH	473.25B	58.75
2905	----	----	----	----	----	291.60-	780	.997	----	2	UNCH	478.25B	60.50A
2910	----	----	----	----	----	296.60-	770	.998	----	9	UNCH	483.25B	62.00A
2920	----	----	----	----	----	306.60-	770	.999	----	32	UNCH	506.00B	65.00
2925	----	----	----	----	----	311.60-	770	.999	----	34	UNCH	539.25B	66.50A
2930	----	----	----	----	----	316.50-	780	.999	----	2	UNCH	503.00B	68.00A
2935	----	----	----	----	----	321.50-	780	.999	----	7	UNCH	508.00B	69.75A
2940	----	----	----	----	----	326.50-	780	.999	----	6	UNCH	513.00B	71.25A
2945	----	----	----	----	----	331.50-	780	.999	----	5	UNCH	518.00B	73.00A
2950	----	----	----	----	----	336.50-	780	.999	----	19	UNCH	523.00B	74.75A
2970	----	----	----	----	----	356.50-	780	.999	----	37	UNCH	543.00B	82.50A
2975	----	----	----	----	----	361.50-	780	.999	----	102	UNCH	548.00B	84.50A
3000	----	----	----	----	----	386.40-	780	.999	----	17	UNCH	594.25B	95.75A
3025	----	----	----	----	----	411.35-	785	.999	----	53	UNCH	597.75B	109.00A
3050	----	----	----	----	----	436.30-	790	.999	----	46	UNCH	622.50B	125.00A
3075	----	----	----	----	----	461.30-	790	1.000	----	78	UNCH	647.50B	142.50A
3100	----	----	----	----	----	486.25-	785	1.000	----	90	UNCH	672.25B	161.25A
3240	----	----	----	----	----	626.10-	775	1.000	----	1	UNCH	812.00B	287.00A
3500	----	----	----	----	----	885.85-	770	1.000	----	535	UNCH	1071.25B	692.25A
4275	----	----	----	----	----	1660.05-	770	1.000	----	3	UNCH	1844.00B	1464.00A
4400	----	----	----	----	----	1784.95-	765	1.000	----	3	UNCH	1968.75B	1588.50A
TOTAL										38352	230118 +	11643	
FEB19	EOM EMINI S&P P												
100	----	----	----	----	----								
825	----	----	----	----	----								
850	----	----	----	----	----	.05	UNCH	.000	----	4	UNCH	.05	.05
875	----	----	----	----	----	.05	UNCH	.000	----	800	UNCH	.05	.05
900	----	----	----	----	----	.05	UNCH	.000	----	142	UNCH	.05	.05
925	----	----	----	----	----	.05	5	.000	----	2	UNCH	.05	.05
1000	----	----	----	----	----	.10	UNCH	.000	----	8	UNCH	.05	.05
1025	----	----	----	----	----	.10	UNCH	.000	----	20	UNCH	.05	.05
1050	----	----	----	----	----	.10	UNCH	.000	----	20	UNCH	.05	.05
1075	----	----	----	----	----	.10-	5	.000	----	4	UNCH	.70	.25A
1100	----	----	----	----	----	.10-	5	.000	----	302	UNCH	.70B	.25A
1125	0.15	.15	.15	----	----	.15	UNCH	.000	70	4	UNCH	.80B	.25A
1150	0.15	.15	.15	----	----	.15	UNCH	.000	10	110 +	70	.85B	.15A
1175	----	----	----	----	----	.15	UNCH	.000	----	570 +	10	.90B	.10
1200	0.15	.15	.15	----	----	.20+	5	.000	250	133	UNCH	.95B	.15
1225	----	----	----	----	----	.20+	5	.000	----	537 +	250	1.05B	.15A
1250	----	----	----	----	----	.20	UNCH	.000	----	1254	UNCH	1.10B	.10
1275	----	----	----	----	----	.25+	5	.001	----	748	UNCH	1.20	.10
1300	0.20	.20	.20	----	----	.25+	5	.001	75	406	UNCH	1.30B	.15
1325	----	----	----	----	----	.25+	5	.001	----	477 +	75	1.40B	.15
1350	----	.25B	----	----	----	.25+	5	.001	----	142	UNCH	1.55B	.20A
1375	----	----	----	----	----	.30+	10	.001	----	151	UNCH	1.70B	.20
1400	0.25	.25	.25	----	----	.30+	5	.001	----	153	UNCH	1.85B	.25A
1425	----	.30B	----	----	----	.30+	5	.001	50	595 +	50	2.00B	.15
1450	0.30	.30	.30	----	----	.35+	10	.001	----	180	UNCH	2.20B	.25A
1475	----	----	----	----	----	.40+	10	.002	1	233	UNCH	2.40B	.30A
1500	0.35	.35	.35	----	----	.40+	10	.002	6	106	UNCH	2.65B	.30A
1525	----	----	----	----	----	.45+	10	.002	----	39 +	1	2.90B	.30A
1550	----	.40B	----	----	----	.45+	10	.002	----	62	UNCH	3.20B	.35A
1575	----	.40B	----	----	----	.45+	10	.002	----	653	UNCH	3.75B	.35A
1600	0.45	.45	.45	----	----	.50+	10	.002	198	3	UNCH	4.15B	.35A
1625	----	.45B	----	----	----	.50+	10	.003	----	509 +	198	4.65B	.40A
1650	----	.50B	----	----	----	.55+	10	.003	----	294	UNCH	5.25B	.40A
1675	----	.50B	----	----	----	.55+	10	.003	----	755	UNCH	5.75B	.45A
1700	----	.55B	----	----	----	.60+	10	.003	----	58	UNCH	6.50B	.45A
1725	0.65	.65	.65	----	----	.65+	10	.004	261	683	UNCH	7.25B	.50A
1750	----	.65B	----	----	----	.70+	10	.004	----	1117 +	120	8.00B	.55A
1760	----	.65B	----	----	----	.70+	10	.004	----	773	UNCH	9.00B	.60A
1770	----	.70B	----	----	----	.70+	10	.004	2	474	UNCH	5.50B	.60A
1775	----	.70B	----	----	----	.75+	10	.005	----	4	UNCH	5.75B	.15
1780	0.75	.75	.75	----	----	.75+	10	.005	196	204	UNCH	10.00B	.60A
1790	----	.75B	----	----	----	.75+	10	.005	----	228 +	196	6.00B	.65A
1800	----	.75B	----	----	----	.80+	10	.005	----	170	UNCH	6.50B	.65A
1810	0.80	.80	.80	----	----	.80+	10	.005	400	528	UNCH	11.25B	.65A
1820	----	.80B	----	----	----	.85+	10	.005	----	470	UNCH	11.75B	.70A
1825	----	.80B	----	----	----	.85+	10	.005	----	1	UNCH	12.25B	.70A
1830	----	.85B	----	----	----	.85+	10	.006	2	482	UNCH	12.50B	.70A
1840	0.90	.90	.90	----	----	.90+	10	.006	2	10 -	2	12.75B	.75A
1850	----	.90B	.80A	----	----	.95+	10	.006	2	20 -	2	13.50B	.70
1860	----	.95B	----										



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Table with columns: PG48, BULLETIN # 11@, E-MINI S&P 500 PUT OPTIONS, wed, Jan 16, 2019, PG48. Contains multiple rows of market data including strike prices, bid/ask, and volume.

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Table with columns: PG48, BULLETIN # 11@, E-MINI S&P 500 PUT OPTIONS, wed, Jan 16, 2019, PG48. Contains multiple columns of numerical data representing option prices and volumes.

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PG48	BULLETIN # 11@	E-MINI S&P 500 PUT OPTIONS										wed, Jan 16, 2019	PG48
2265	----	----	*11.25A	----	12.90-	40	.087	----	----	30	UNCH	98.75B	11.25A
2270	----	----	11.75A	----	13.20-	40	.089	----	2	150 +	2	100.50B	11.00A
2275	12.75	13.25B	12.00A	----	13.60-	40	.091	----	4	535	UNCH	102.25B	11.25A
2280	----	----	12.25A	----	13.90-	40	.094	----	----	136	UNCH	104.25B	11.50A
2285	----	----	*12.50A	----	14.30-	40	.096	----	----	37	UNCH	106.00B	12.50A
2290	----	----	12.75A	----	14.60-	50	.098	----	----	161	UNCH	108.00B	12.00A
2295	----	----	*13.25A	----	15.00-	50	.101	----	----	45	UNCH	110.00B	13.25A
2300	14.25	15.00B	13.50A	----	15.40-	50	.104	----	5	1375 +	3	112.00B	12.50A
2305	----	----	*13.75A	----	15.80-	50	.106	----	----	85	UNCH	114.00B	13.75A
2310	----	----	14.25A	----	16.20-	50	.109	----	1	168	UNCH	116.00B	13.00A
2315	----	----	*14.50A	----	16.60-	60	.112	----	----	82	UNCH	118.00B	14.50A
2320	15.75	16.75B	15.00A	----	17.00-	60	.115	----	3	613	UNCH	120.00B	13.25A
2325	16.75	17.00B	15.25A	----	17.40-	60	.117	----	21	1645	UNCH	122.25B	13.50A
2330	15.50	17.50B	15.50	----	17.80-	70	.120	----	29	1230 -	2	124.25B	13.75A
2335	17.00	18.00B	*16.25A	----	18.30-	70	.124	----	3	64 +	3	126.50B	16.25A
2340	17.00	18.50B	16.50A	----	18.70-	70	.127	----	26	220	UNCH	129.00B	14.00A
2345	17.25	18.75B	*17.00A	----	19.20-	70	.130	----	30	218	UNCH	131.00B	17.00A
2350	20.50	20.50	17.50A	----	19.70-	70	.133	----	106	717 +	6	133.25B	14.50A
2355	----	----	*17.75A	----	20.10-	80	.136	----	----	132	UNCH	135.75B	17.75A
2360	20.25	20.50B	18.25A	----	20.60-	90	.140	----	6	80 +	6	138.00B	15.00A
2365	19.00	20.75B	*18.75A	----	21.10-	90	.143	----	6	174 +	2	140.25B	18.75A
2370	----	----	19.25A	----	21.70-	90	.147	----	----	220	UNCH	142.75B	15.25A
2375	21.50	23.25B	19.75A	----	22.20-	90	.151	----	14	274 +	3	145.25B	15.50A
2380	----	----	20.25A	----	22.70-	100	.154	----	----	407	UNCH	147.75B	15.75A
2385	----	24.50B	*20.75A	----	23.30-	100	.158	----	----	125	UNCH	150.25B	20.75A
2390	22.25	23.50B	21.25A	----	23.90-	100	.162	----	6	478 +	6	152.75B	16.25A
2395	23.00	25.75B	*21.75A	----	24.50-	100	.166	----	26	54 +	3	155.50B	21.75A
2400	23.00	24.75B	22.25A	----	25.10-	110	.170	----	27	2289 +	9	158.00B	16.75A
2405	23.25	27.00B	*23.00A	----	25.70-	110	.175	----	14	67	UNCH	160.75B	23.00A
2410	----	27.75B	23.50A	----	26.30-	120	.179	----	----	337	UNCH	163.50B	17.25A
2415	----	28.50B	*24.25A	----	27.00-	120	.184	----	----	17	UNCH	166.25B	24.25A
2420	26.00	29.25B	24.75A	----	27.70-	120	.188	----	7	912 +	7	169.00B	17.75A
2425	25.75	30.00B	25.50A	----	28.40-	120	.193	----	29	224 +	29	171.75B	18.00A
2430	27.25	30.75B	26.00A	----	29.10-	130	.198	----	17	355 +	7	174.50B	18.25A
2435	27.25	31.50B	*26.75A	----	29.80-	130	.203	----	1	2 +	1	177.50B	26.75A
2440	28.75	32.25B	27.25A	----	30.60-	130	.208	----	7	934 +	7	180.25B	18.75A
2445	----	33.00B	*28.00A	----	31.30-	140	.213	----	----	12	UNCH	183.25B	28.00A
2450	----	34.00B	28.75A	----	32.10-	150	.218	----	102	1000 +	102	186.25B	19.25A
2455	30.00	34.75B	*29.50A	----	32.90-	150	.223	----	1	457 +	1	189.25B	29.50A
2460	30.50	35.75B	30.25A	----	33.80-	150	.229	----	1	205	UNCH	192.25B	20.00A
2465	----	36.50B	*31.00A	----	34.60-	160	.235	----	----	163	UNCH	195.50B	31.00A
2470	----	37.50B	32.00A	----	35.50-	160	.241	----	----	339	UNCH	198.50B	20.50A
2475	36.50	38.50B	32.75A	----	36.40-	170	.247	----	5	1458 +	3	201.75B	20.75A
2480	----	39.50B	33.50A	----	37.40-	170	.253	----	1	710 -	1	205.00B	21.25A
2485	----	40.50B	*34.50A	----	38.30-	180	.259	----	1	195 -	1	208.25B	34.50A
2490	----	41.50B	35.25A	----	39.30-	180	.265	----	1	189 +	1	211.50B	21.75A
2495	----	42.50B	*36.25A	----	40.30-	180	.272	----	----	152	UNCH	214.75B	36.25A
2500	41.00	43.75B	37.25A	----	41.30-	190	.278	----	22	1652 +	22	218.00B	22.50A
2505	----	44.75B	*38.25A	----	42.40-	190	.285	----	----	150	UNCH	221.50B	38.25A
2510	----	46.00B	39.25A	----	43.50-	190	.292	----	124	590 +	122	225.00B	23.00A
2515	----	47.00B	*40.25A	----	44.60-	200	.300	----	----	118	UNCH	228.50B	40.25A
2520	----	48.25B	41.25A	----	45.70-	210	.307	----	----	59	UNCH	231.75B	23.75A
2525	----	49.50B	42.25A	----	46.90-	210	.314	----	----	145	UNCH	235.50B	24.25A
2530	----	50.75B	43.50A	----	48.10-	220	.322	----	1	427 +	1	239.00B	24.50A
2535	----	52.00B	*44.50A	----	49.40-	210	.330	----	----	95	UNCH	242.50B	44.50A
2540	----	53.50B	45.75A	----	50.60-	230	.338	----	----	85	UNCH	246.25B	25.25A
2545	48.00	54.75B	*47.00A	----	51.90-	230	.346	----	1	153 +	1	250.00B	47.00A
2550	51.50	56.25B	48.00A	----	53.30-	230	.354	----	8	1621 +	5	253.50B	26.00A
2555	----	57.75B	*49.25A	----	54.70-	240	.363	----	----	68	UNCH	257.25B	49.25A
2560	----	59.00B	50.75A	----	56.10-	240	.371	----	----	101	UNCH	261.25B	26.75A
2565	59.50	60.75B	*52.00A	----	57.50-	260	.380	----	1	66	UNCH	265.00B	52.00A
2570	----	62.25B	53.25A	----	59.00-	260	.389	----	----	110	UNCH	268.75B	27.75A
2575	----	63.75B	54.75A	----	60.50-	270	.398	----	----	137	UNCH	272.75B	28.00A
2580	----	65.50B	56.25A	----	62.10-	280	.408	----	----	87	UNCH	276.50B	28.50A
2585	58.50	67.25B	*57.75A	----	63.70-	290	.417	----	8	92 +	8	280.50B	57.75A
2590	----	69.00B	59.25A	----	65.40-	300	.427	----	----	233	UNCH	284.50B	29.25A
2595	----	70.75B	*61.00A	----	67.10-	310	.437	----	217	413 +	135	288.50B	61.00A
2600	64.00	72.50B	62.50A	----	68.80-	320	.447	----	62	407 +	2	292.50B	30.25A
2605	----	74.50B	*64.25A	----	70.60-	330	.457	----	----	41	UNCH	296.75B	64.25A
2610	----	76.50B	66.00A	----	72.40-	340	.467	----	----	113	UNCH	300.75B	31.25A
2615	----	78.50B	*67.75A	----	74.30-	350	.478	----	51	51 +	43	305.00B	67.75A
2620	----	80.50B	69.50A	----	76.30-	350	.489	----	189	453 +	185	309.00B	32.25A
2625	----	82.50B	71.50A	----	78.30-	360	.500	----	2	210	UNCH	313.25B	32.50A
2630	----	84.75B	73.50A	----	80.30-	370	.511	----	----	30	UNCH	317.75B	33.00A
2635	----	87.00B	*75.25A	----	82.40-	380	.522	----	----	1	UNCH	322.00B	75.25A
2640	----	89.50B	77.50A	----	84.60-	390	.533	----	----	82	UNCH	326.25B	34.25A
2645	----	91.75B	*79.50A	----	86.80-	400	.545	----	----	3	UNCH	330.50B	79.50A
2650	----	94.25B	81.75A	----	89.20-	400	.556	----	2	472	UNCH	335.00B	35.25A
2655	----	96.75B	*84.00A	----	91.50-	410	.568	----	----	9	UNCH	339.25B	84.00A
2660	----	99.25B	86.25A	----	94.00-	410	.580	----	----	400	UNCH	343.75B	36.25A
2665	----	101.75B	*88.50A	----	96.50-	420	.591	----	----	3	UNCH	348.00B	88.50A
2670	----	104.50B	91.00A	----	99.00-	440	.603	----	4	128 -	2	352.50B	37.50A
2675	98.00	107.25B	93.50A	----	101.70-	440	.615	----	13	149 +	3	357.00B	38.00A
2680	100.75	110.00B	96.00A	----	104.40-	450	.627	----	9	17 +	2	361.50B	38.50A
2685	101.50	113.00B	*98.50A	----	107.20-	460	.639	----	6	2	UNCH	366.00B	98.50A
2690	104.50	115.75B	101.50A	----	110.00-	470	.651	----	4	27	UNCH	370.50B	39.75A
2695	108.00	118.50B	*104.25A	----	112.90-	480	.663	----	2	1	UNCH	375.00B	104.25A
2700	113.50	121.75B	107.00A	----	115.90-	490	.675	----	2	217	UNCH	379.50B	41.00A
2705	----	124.75B	*110.00A	----	119.00-	500	.687	----	----	2	UNCH	384.00B	110.00A
2710	120.00	128.00B	113.00A	----	122.10-	510	.699	----	1	4 +	1	388.75B	42.50A
2715	----	131.25B	*115.75A	----	125.20-	530	.711	----	----	2	UNCH	393.25B	115.75A
2720	----	134.75B	119.00A	----	128.50-	530	.722	----	----	11	UNCH	398.00B	43.75A
2725	----	138.00B	122.75A	----	131.80-	550	.734	----	----	205	UNCH	402.50B	44.50A
2730	----	141.50B	126.00A	----	135.20-	560	.745	----	----	46	UNCH	407.25B	45.00A
2735	----	145.25B	*129.25A	----	138.60-	580	.756	----	----	1	UNCH	412.00B	129.25A
2740	----	148.75B	132.75A	----	142.20-	580	.768	----	----	76	UNCH	416.50B	46.50A
2745	----	152.50B	*136.25A	----	145.80-	590	.778						



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PG48	BULLETIN # 11@	E-MINI S&P 500 PUT OPTIONS										wed, Jan 16, 2019		PG48
1450	----	----	----	----	----	.75+	10	.003	----	----	694	UNCH	4.45B	.75A
1475	----	----	----	----	----	.85+	10	.003	----	----	2	UNCH	4.85B	.75A
1500	----	----	----	----	----	.90+	10	.004	----	----	152	UNCH	5.25B	.90A
1525	----	----	----	----	----	1.00+	10	.004	----	----	227	UNCH	6.00B	.85A
1550	----	1.00B	----	----	----	1.10+	15	.005	----	----	330	UNCH	6.50B	.90A
1575	----	1.10B	----	----	----	1.20+	15	.005	----	----	64	UNCH	7.25B	1.00A
1600	----	1.20B	----	----	----	1.30+	15	.006	----	----	145	UNCH	8.25B	1.10A
1625	----	----	----	----	----	1.45+	15	.007	----	----	59	UNCH	9.00B	1.20A
1650	----	----	1.40A	----	----	1.55+	10	.007	----	----	97	UNCH	11.00B	1.25
1675	----	----	1.55A	----	----	1.70+	10	.008	----	----	3	UNCH	11.25B	1.45A
1700	----	1.80B	1.70A	----	----	1.90+	15	.009	----	----	218	UNCH	13.50B	1.60A
1725	----	----	1.85A	----	----	2.10+	15	.010	----	----	43	UNCH	14.75B	1.80A
1750	2.00	2.20B	2.00	----	----	2.30+	10	.012	----	2	96 +	2	16.50B	1.95A
1775	----	----	2.25A	----	----	2.55+	15	.013	----	----	685	UNCH	18.25B	2.15A
1800	----	----	2.50A	----	----	2.80+	10	.014	----	----	137	UNCH	20.00B	2.40A
1825	----	----	2.75A	----	----	3.10+	10	.016	----	8	61	UNCH	22.25B	2.65A
1850	3.15	3.35B	3.05A	----	----	3.45+	15	.018	----	10	61 +	10	24.50B	2.95A
1875	----	3.70B	3.35A	----	----	3.85+	20	.020	----	----	132	UNCH	27.00B	3.30A
1880	----	----	3.45A	----	----	3.90+	15	.021	----	----	102	UNCH	19.00B	3.35A
1890	----	3.95B	3.60A	----	----	4.10+	20	.022	----	----	77	UNCH	20.00B	3.50A
1900	----	4.10B	3.75A	----	----	4.25+	20	.023	----	----	929	UNCH	29.75B	3.70A
1920	----	4.50B	4.05A	----	----	4.65+	25	.025	----	----	200	UNCH	32.00B	4.00A
1925	----	4.60B	4.15A	----	----	4.75+	25	.025	----	----	25	UNCH	32.75B	4.10A
1930	----	4.70B	4.25A	----	----	4.85+	25	.026	----	----	239	UNCH	33.25B	4.20A
1940	----	4.90B	4.45A	----	----	5.00+	20	.027	----	----	139	UNCH	34.75B	4.40A
1950	----	----	4.65A	----	----	5.30+	30	.028	----	----	19152	UNCH	36.00B	4.60A
1970	----	----	5.25A	----	----	5.70+	20	.031	----	----	135	UNCH	39.00B	5.00A
1975	----	----	5.25A	----	----	5.80+	20	.031	----	----	797	UNCH	39.75B	5.25A
1980	----	----	5.25A	----	----	6.00+	30	.032	----	----	161	UNCH	40.50B	5.25A
1990	----	----	5.50A	----	----	6.20+	20	.034	----	----	248	UNCH	42.00B	5.50
2000	----	----	5.75A	----	----	6.50+	20	.035	----	----	827	UNCH	43.50B	5.75
2010	----	----	6.00A	----	----	6.80+	20	.037	----	----	157	UNCH	45.25B	6.00A
2020	----	----	*6.25A	----	----	7.10+	20	.039	----	----	114	UNCH	47.00B	6.25A
2025	----	----	6.50A	----	----	7.20+	20	.039	----	----	514	UNCH	47.75B	6.50A
2030	----	----	*6.50A	----	----	7.40+	20	.041	----	----	83	UNCH	48.75B	6.50A
2040	----	----	7.00A	----	----	7.70+	10	.042	----	----	26	UNCH	50.50B	7.00A
2050	----	----	7.25A	----	----	8.00+	10	.044	----	----	692	UNCH	52.50B	7.25A
2060	----	----	*7.50A	----	----	8.40+	10	.046	----	----	40	UNCH	54.25B	7.50A
2070	----	----	*7.75A	----	----	8.70	UNCH	.048	----	----	8	UNCH	56.25B	7.75A
2075	----	----	*8.00A	----	----	8.90	UNCH	.049	----	4	239 +	4	57.50B	8.00A
2090	----	----	8.50A	----	----	9.50-	10	.053	----	----	5	UNCH	60.50B	8.50A
2100	----	----	9.00A	----	----	10.00	UNCH	.055	----	----	314	UNCH	62.75B	8.75A
2110	----	----	9.50A	----	----	10.40-	10	.058	----	----	453	UNCH	65.00B	9.25A
2115	----	----	*9.50A	----	----	10.60-	20	.059	----	----	2	UNCH	48.50B	9.50A
2120	----	----	9.75A	----	----	10.90-	10	.061	----	----	69	UNCH	67.50B	9.50A
2125	----	----	10.00A	----	----	11.10-	20	.062	----	----	141	UNCH	68.75B	9.75A
2130	----	----	10.25A	----	----	11.40-	10	.063	----	----	77	UNCH	69.75B	9.75A
2135	----	----	*10.50A	----	----	11.60-	20	.065	----	----	1	UNCH	52.25B	10.50A
2140	----	----	10.75A	----	----	11.90-	20	.066	----	----	57	UNCH	72.25B	10.25A
2145	----	----	*11.00A	----	----	12.10-	20	.067	----	----	4	UNCH	54.25B	11.00A
2150	----	----	11.25A	----	----	12.40-	20	.069	----	----	307	UNCH	74.75B	10.50A
2155	----	----	*11.50A	----	----	12.70-	20	.071	----	----	11	UNCH	56.25B	11.50A
2160	----	----	11.75A	----	----	13.00-	20	.072	----	----	1	UNCH	77.50B	11.00A
2165	----	----	*12.00A	----	----	13.30-	20	.074	----	----	2	UNCH	58.50B	12.00A
2170	----	----	12.25A	----	----	13.50-	30	.075	----	----	202	UNCH	80.25B	11.25A
2175	----	----	12.50A	----	----	13.90-	20	.077	----	----	439	UNCH	81.75B	11.50A
2180	----	----	12.75A	----	----	14.20-	20	.079	----	----	113	UNCH	83.00B	11.75A
2185	----	----	*13.00A	----	----	14.50-	20	.081	----	----	4	UNCH	84.50B	13.00A
2190	----	----	13.50A	----	----	14.80-	20	.083	----	----	73	UNCH	86.00B	12.00A
2195	----	----	*13.75A	----	----	15.10-	30	.084	----	----	4	UNCH	87.50B	13.75A
2200	----	----	14.00A	----	----	15.50-	20	.087	----	4	250 -	4	89.00B	12.50A
2210	----	----	14.50A	----	----	16.10-	30	.090	----	----	40	UNCH	92.00B	13.00A
2220	----	17.25B	15.25A	----	----	16.90-	20	.094	----	----	64	UNCH	95.25B	13.50A
2225	----	----	15.50A	----	----	17.20-	30	.096	----	----	18	UNCH	97.00B	13.75A
2230	----	----	16.00A	----	----	17.60-	30	.098	----	----	150	UNCH	98.50B	14.00A
2235	----	18.50B	*16.25A	----	----	18.00-	30	.101	----	----	13	UNCH	100.25B	16.25A
2250	----	19.75B	17.25A	----	----	19.20-	30	.107	----	4	167 -	4	105.25B	15.00A
2255	----	----	*17.75A	----	----	19.60-	40	.110	----	----	2	UNCH	107.00B	17.75A
2260	----	----	18.00A	----	----	20.00-	40	.112	----	----	214	UNCH	109.00B	15.50A
2265	----	----	*18.50A	----	----	20.40-	50	.114	----	----	111	UNCH	110.75B	18.50A
2270	----	21.50B	19.00A	----	----	20.80-	50	.117	----	----	166	UNCH	112.50B	16.00A
2275	----	22.00B	19.25A	----	----	21.30-	50	.119	----	----	212	UNCH	114.50B	16.25A
2280	----	22.50B	19.75A	----	----	21.70-	60	.122	----	----	20	UNCH	116.25B	16.50A
2285	----	23.00B	*20.25A	----	----	22.20-	60	.125	----	----	14	UNCH	118.25B	20.25A
2290	----	23.50B	20.75A	----	----	22.70-	60	.127	----	----	10	UNCH	120.25B	17.00A
2295	----	24.00B	*21.00A	----	----	23.10-	70	.130	----	----	24	UNCH	122.25B	21.00A
2300	23.75	24.50B	21.50A	----	----	23.60-	70	.133	----	3	485	UNCH	124.25B	17.75A
2310	----	----	22.50A	----	----	24.60-	80	.138	----	----	55	UNCH	128.25B	18.25A
2315	----	26.25B	*23.00A	----	----	25.20-	70	.142	----	----	304	UNCH	130.25B	23.00A
2320	----	26.75B	23.50A	----	----	25.70-	80	.144	----	----	115	UNCH	132.50B	19.00A
2325	----	27.25B	24.00A	----	----	26.30-	80	.148	----	8	375	UNCH	134.50B	19.25A
2330	----	28.00B	24.50A	----	----	26.80-	90	.151	----	----	52	UNCH	136.75B	19.50A
2335	----	28.50B	*25.00A	----	----	27.40-	90	.154	----	----	252	UNCH	139.00B	25.00A
2340	----	29.25B	25.50A	----	----	28.00-	90	.157	----	----	120	UNCH	141.00B	20.25A
2350	28.25	30.50B	26.75A	----	----	29.20-	100	.164	----	5	487 +	3	145.75B	21.00A
2360	----	31.75B	28.00A	----	----	30.50-	100	.171	----	----	55	UNCH	150.25B	21.75A
2370	----	33.25B	29.00A	----	----	31.80-	110	.179	----	----	57	UNCH	155.00B	22.50A
2375	----	34.00B	29.75A	----	----	32.50-	110	.182	----	----	19	UNCH	157.50B	23.00A
2380	----	34.75B	30.50A	----	----	33.20-	110	.186	----	----	1475	UNCH	160.00B	23.25A
2390	----	36.25B	31.75A	----	----	34.70-	110	.194	----	----	25	UNCH	165.00B	24.25A
2400	----	37.75B	33.00A	----	----	36.20-	120	.203	----	----	720	UNCH	170.00B	25.00A
2405	----	38.75B	*33.75A	----	----	37.00-	120	.207	----	----	52	UNCH	172.75B	33.75A
2410	----	39.50B	34.50A	----	----	37.90-	110	.211	----	----	92	UNCH	175.25B	25.75A
2415	----	40.25B	*35.25A	----	----	38.70-	120	.216	----	----	356	UNCH	178.00B	35.25A
2420	----	41.25B	36.00A	----	----	39.50-	120	.220	----	----	1	UNCH	180.75B	26.75A
2425	----	42.00B	36.75A	----	----	40.40-	120	.225	----	----	615	UNCH	183.50B	27.25A
2430	----	43.00B	37.75A	----	----	41.20-	130	.230	----	----	70	UNCH	186.25B	27.75A
2440	----	44.75B	39.25A	----	----	43.00-	140	.239	----	----	154	UNCH	191.75B	28.75A
2445	----	45.75B	*40.25A	----	----	44.00-	130	.244	----	----	157	UNCH	194.75B	40.25A
2450	----	46.75B	41.00A	----	----	44.90-	140	.249	----	4	456	UNCH	197.50B	29.



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PG48	BULLETIN # 11@	E-MINI S&P 500 PUT OPTIONS										wed, Jan 16, 2019		PG48
2670	----	119.50B	106.75A	----	114.40-	410	.579	----	----	20	UNCH	357.50B	63.25A	
2675	----	122.00B	109.25A	----	116.80-	430	.588	----	----	1	UNCH	361.75B	64.25A	
2690	----	130.25B	116.50A	----	124.60-	450	.618	----	----	1	UNCH	374.75B	67.75A	
2700	----	135.75B	121.75A	----	130.00-	470	.638	----	----	15	UNCH	383.50B	70.25A	
2710	----	141.50B	127.25A	----	135.60-	490	.658	----	----	1	UNCH	392.50B	72.50A	
2725	----	150.50B	135.75A	----	144.50-	520	.688	----	----	50	UNCH	405.75B	76.50A	
2730	----	153.75B	138.75A	----	147.60-	530	.698	----	----	1	UNCH	410.25B	77.75A	
2740	----	160.25B	145.00A	----	153.90-	550	.718	----	----	27	UNCH	419.50B	80.50A	
2760	----	174.00B	158.25A	----	167.30-	580	.756	----	----	2	UNCH	437.75B	86.25A	
2775	----	185.00B	168.75A	----	178.00-	610	.784	----	----	1	UNCH	451.50B	91.00A	
2780	----	188.75B	172.25A	----	181.70-	610	.793	----	----	1	UNCH	456.25B	92.50A	
2800	----	204.25B	187.25A	----	197.00-	640	.827	----	----	2	UNCH	475.00B	99.25A	
2825	----	224.75B	207.25A	----	217.30-	670	.864	----	----	1	UNCH	498.75B	108.25A	
2850	----	246.50B	228.25A	----	238.80-	690	.895	----	----	2	UNCH	522.50B	118.25A	
2890	----	282.75B	263.75A	----	274.90-	720	.931	----	----	11	UNCH	561.00B	136.25A	
2910	----	301.50B	282.25A	----	293.60-	730	.945	----	----	1	UNCH	511.00B	147.00A	
3030	----	----	----	----	409.90-	760	.982	----	----	19	UNCH	597.50B	221.75A	
TOTAL										308		43604 +	266	
MAY19	EOM EMINI S&P P	----	----	----	.25+	5	.000	----	----	1	UNCH	1.15B	.45A	
1050	----	----	----	----	.30+	10	.001	----	----	2	UNCH	1.30B	.50A	
1075	----	----	----	----	.35+	5	.001	----	----	20	UNCH	1.40B	.50A	
1100	----	----	----	----	.40+	10	.001	----	----	239	UNCH	1.75B	.40A	
1150	----	----	----	----	.45+	10	.001	----	----	142	UNCH	1.95B	.45A	
1175	----	----	----	----	.50+	10	.002	----	----	97	UNCH	2.20B	.50A	
1200	----	----	----	----	.55+	10	.002	----	----	2	UNCH	2.70B	.50A	
1250	----	----	----	----	.60+	10	.002	----	----	1	UNCH	3.35B	.60A	
1300	----	----	----	----	.75+	10	.003	----	----	1	UNCH	4.00B	.70A	
1350	----	----	----	----	.80+	10	.003	----	----	1	UNCH	4.50B	.80A	
1375	----	----	----	----	.90+	10	.003	----	----	2306	UNCH	5.00B	.85	
1400	----	----	----	----	1.00+	10	.004	----	----	2	UNCH	5.50B	.85	
1425	----	----	----	----	1.10+	10	.004	----	----	163	UNCH	6.00B	1.10A	
1450	----	----	----	----	1.20+	10	.005	----	----	34	UNCH	6.75B	1.05A	
1475	----	----	----	----	1.35+	10	.006	----	----	7	UNCH	7.50B	1.10	
1500	----	1.40B	----	----	1.50+	15	.006	----	----	27	UNCH	8.25B	1.25	
1525	----	1.55B	----	----	1.65+	15	.007	----	----	4	UNCH	9.75B	1.40A	
1550	----	1.90B	1.80A	----	2.00+	15	.009	----	----	3	UNCH	11.75B	1.75A	
1600	----	2.10B	2.00A	----	2.25+	20	.010	----	----	160	UNCH	13.00B	1.90A	
1625	----	2.30B	2.20A	----	2.50+	25	.011	----	----	11350	UNCH	14.50B	2.10A	
1650	----	2.60B	2.45A	----	2.75+	20	.012	----	----	3600	UNCH	15.75B	2.35A	
1675	----	2.90B	2.70A	----	3.05+	25	.014	----	----	405	UNCH	17.50B	2.60A	
1700	----	3.20B	3.00A	----	3.35+	20	.015	----	----	265	UNCH	19.25B	2.85A	
1725	----	3.55B	3.30A	----	3.70+	20	.017	----	----	200	UNCH	21.00B	3.20A	
1750	----	3.95B	3.65A	----	4.10+	20	.019	----	----	1426	UNCH	23.25B	3.55A	
1775	----	4.40B	4.05A	----	4.50+	15	.021	----	----	229	UNCH	25.25B	3.95A	
1800	----	4.90B	4.50A	----	5.00+	15	.023	----	----	350	UNCH	27.75B	4.40A	
1825	----	----	4.95A	----	5.50+	10	.026	----	----	439	UNCH	30.50B	4.90A	
1850	----	----	5.50A	----	6.00+	10	.028	----	----	50	UNCH	34.75B	5.50A	
1870	----	----	5.50A	----	6.10+	10	.029	----	----	725	UNCH	33.50B	5.50A	
1875	----	----	5.75A	----	6.20+	10	.029	----	----	70	UNCH	27.00B	5.75A	
1880	----	----	6.00A	----	6.50+	10	.031	----	----	164	UNCH	26.00B	6.00A	
1890	----	----	6.25A	----	6.80+	10	.032	----	----	7195	UNCH	36.50B	6.25A	
1900	----	----	6.50A	----	7.10+	20	.034	----	----	1	UNCH	28.00B	6.50A	
1910	----	----	6.75A	----	7.40+	20	.035	----	----	62	UNCH	39.25B	6.75A	
1920	----	----	6.75A	----	7.50+	10	.036	----	----	36	UNCH	40.00B	6.75A	
1925	----	----	7.00A	----	7.70+	20	.036	----	----	87	UNCH	40.50B	7.00A	
1930	----	----	7.25A	----	8.00+	10	.038	----	----	68	UNCH	42.00B	7.25A	
1940	----	----	7.50A	----	8.30+	10	.039	----	159	362 +	92	43.50B	7.50A	
1950	----	----	*7.75A	----	8.70+	20	.041	----	----	72	UNCH	45.25B	7.75A	
1960	----	----	*8.25A	----	9.20+	10	.044	----	----	83	UNCH	47.50B	8.25A	
1975	----	----	8.50A	----	9.40+	10	.045	----	----	179	UNCH	48.50B	8.50	
1980	----	----	*9.25A	----	10.20+	10	.049	----	----	241	UNCH	52.00B	9.25A	
2000	----	----	9.50A	----	10.60+	10	.051	----	----	324	UNCH	53.75B	9.50	
2010	----	----	*10.00A	----	11.10+	20	.053	----	----	70	UNCH	55.75B	10.00A	
2020	----	----	*10.25A	----	11.30+	20	.054	----	----	548	UNCH	56.75B	10.25A	
2025	----	----	*10.50A	----	11.50+	10	.055	----	----	1	UNCH	57.50B	10.50A	
2030	----	----	*10.75A	----	12.00+	20	.057	----	----	3	UNCH	59.50B	10.75A	
2040	----	----	*11.25A	----	12.40+	10	.060	----	----	146	UNCH	61.75B	11.25A	
2050	----	----	*12.25A	----	13.40	UNCH	.064	----	----	600	UNCH	66.00B	12.25A	
2070	----	----	*12.50A	----	13.60-	10	.066	----	----	199	UNCH	67.00B	12.50A	
2075	----	----	*13.25A	----	14.40-	10	.069	----	----	500	UNCH	70.50B	13.25A	
2090	----	----	*13.75A	----	15.00-	10	.072	----	----	141	UNCH	72.75B	13.75A	
2100	----	15.25B	*14.25A	----	15.50-	20	.075	----	----	58	UNCH	75.25B	14.25A	
2110	----	----	*15.25A	----	16.50-	20	.080	----	1	499 -	1	79.00B	15.25A	
2125	16.00	16.50B	*15.50A	----	16.80-	30	.081	----	----	158	UNCH	80.25B	15.50A	
2130	----	17.25B	*15.75A	----	17.10-	30	.083	----	----	63	UNCH	62.25B	15.75A	
2135	----	----	*16.00A	----	17.40-	40	.084	----	----	408	UNCH	82.75B	16.00A	
2140	----	18.00B	*16.50A	----	17.80-	30	.086	----	----	1	UNCH	64.25B	16.50A	
2145	----	18.25B	*16.75A	----	18.10-	40	.088	----	----	56	UNCH	85.50B	16.75A	
2150	----	18.75B	*17.00A	----	18.50-	30	.090	----	----	1	UNCH	66.50B	17.00A	
2155	----	19.00B	*17.50A	----	18.80-	40	.091	----	----	196	UNCH	88.25B	17.50A	
2160	----	19.50B	*17.75A	----	19.20-	40	.093	----	----	57	UNCH	68.75B	17.75A	
2165	----	19.75B	*18.00A	----	19.60-	40	.095	----	----	206	UNCH	91.25B	18.00A	
2170	----	20.25B	*18.50A	----	20.00-	40	.097	----	----	12	UNCH	92.50B	18.50A	
2175	19.75	21.00B	*18.75A	----	20.40-	40	.099	----	5	125 +	5	94.00B	18.75A	
2180	----	21.50B	*19.25A	----	20.80-	40	.101	----	----	1	UNCH	95.50B	19.25A	
2185	----	----	*19.50A	----	21.20-	50	.103	----	----	2	UNCH	97.00B	19.50A	
2190	----	22.25B	*20.00A	----	21.60-	50	.105	----	3	83 +	3	98.50B	20.00A	
2195	20.75	22.75B	*20.25A	----	22.00-	50	.107	----	3	216 +	1	100.25B	20.00	
2200	20.00	23.25B	*20.75A	----	22.50-	50	.109	----	----	61	UNCH	101.75B	20.75A	
2205	----	23.75B	*21.00A	----	22.90-	50	.111	----	----	117	UNCH	103.25B	21.00A	
2210	----	23.75B	*22.00A	----	23.90-	50	.116	----	4	5 +	4	106.50B	22.00A	
2220	22.50	23.75B	*22.50A	----	24.30-	60	.118	----	159	457 +				



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PG48	BULLETIN # 11@	E-MINI S&P 500 PUT OPTIONS										wed, Jan 16, 2019		PG48
2590	----	99.00B	89.25A	----	95.00-	340	.437	----	----	51	UNCH	300.00B	85.75A	
2595	----	100.75B	*90.75A	----	96.80-	340	.444	----	----	1	UNCH	303.75B	90.75A	
2600	----	102.75B	92.50A	----	98.60-	340	.452	----	----	206	UNCH	307.50B	88.25A	
2620	----	110.50B	99.75A	----	106.20-	360	.482	----	----	4	UNCH	322.75B	93.50A	
2625	----	112.50B	101.50A	----	108.20-	370	.490	----	----	50	UNCH	326.50B	95.00A	
2630	----	114.75B	103.50A	----	110.20-	370	.498	----	100	107 +	100	330.50B	96.50A	
2645	----	121.25B	*109.50A	----	116.50-	390	.522	----	----	12	UNCH	342.50B	109.50A	
2660	----	128.00B	116.00A	----	123.20-	400	.546	----	----	50	UNCH	354.50B	105.25A	
2675	----	135.50B	122.75A	----	130.20-	420	.571	----	----	1	UNCH	367.00B	110.00A	
2680	----	138.00B	125.00A	----	132.70-	420	.580	----	----	50	UNCH	371.25B	111.75A	
2685	----	140.50B	*127.50A	----	135.20-	420	.588	----	----	1	UNCH	375.25B	127.50A	
2690	----	143.00B	130.00A	----	137.70-	430	.597	----	----	8	UNCH	379.50B	115.00A	
2700	----	148.50B	134.75A	----	142.90-	440	.614	----	----	2	UNCH	388.00B	118.50A	
2710	----	154.00B	140.00A	----	148.30-	450	.631	----	----	1	UNCH	396.75B	122.00A	
2750	----	177.75B	162.75A	----	171.80-	500	.701	----	----	353	UNCH	431.75B	137.25A	
2800	----	212.25B	195.75A	----	205.50-	590	.784	----	1	354 +	1	477.25B	159.00A	
2925	----	317.75B	298.75A	----	310.00-	700	.928	----	----	1	UNCH	595.00B	232.50A	
3000	373.50	388.75B	369.25A	----	380.80+	NEW	.966	----	2	2 +	2	598.00B	288.00A	
3200	----	----	----	----	577.10-	770	.991	----	----	134	UNCH	763.00B	468.50A	
4425	----	----	----	----	1790.45-	795	1.000	----	----	1	UNCH	1972.75B	1673.00A	
TOTAL										681		41001 +	256	
JUN19	EOM EMINI S&P P	1.20B	----	----	1.35+	20	.005	----	----	15	UNCH	2.90B	1.15A	
1400	----	1.50B	----	----	1.65+	20	.006	----	----	9	UNCH	3.60B	1.40A	
1525	----	2.05B	1.90A	----	2.20+	20	.009	----	----	20	UNCH	4.95B	1.85	
1575	----	2.50B	2.35A	----	2.65+	20	.011	----	----	9	UNCH	6.00B	2.30A	
1625	2.80	3.05B	2.80	----	3.25+	NEW	.013	----	3	3 +	3	7.25B	2.80A	
1650	----	----	3.15A	----	3.60+	20	.015	----	----	21	UNCH	8.25B	3.10A	
1725	----	----	4.20A	----	4.80+	20	.020	----	----	71	UNCH	11.00B	4.20A	
1775	----	----	5.25A	----	5.80+	20	.024	----	----	1	UNCH	13.50B	5.25A	
1850	----	----	7.00A	----	7.70+	20	.033	----	----	5	UNCH	18.25B	7.00A	
1900	----	----	*8.50A	----	9.30+	20	.040	----	----	7	UNCH	22.25B	8.50A	
1950	----	----	*10.25A	----	11.30+	20	.049	----	----	4	UNCH	26.75B	10.25A	
1970	----	----	*11.00A	----	12.10+	10	.052	----	----	3	UNCH	29.00B	11.00A	
2000	----	----	*12.50A	----	13.60+	20	.059	----	----	136	UNCH	32.25B	12.50A	
2050	----	----	*15.00A	----	16.30+	10	.071	----	----	23	UNCH	38.75B	15.00A	
2060	----	17.00B	*15.50A	----	16.90+	10	.073	----	----	159	UNCH	40.25B	15.50A	
2090	----	----	*17.25A	----	18.80-	10	.082	----	----	80	UNCH	44.75B	17.25A	
2100	18.00	19.75B	*18.00	----	19.50-	10	.085	----	1	1	UNCH	46.25B	18.00	
2120	----	21.25B	*19.50A	----	21.00-	10	.091	----	----	80	UNCH	49.75B	19.50A	
2170	----	25.75B	*23.25A	----	25.10-	30	.109	----	----	1	UNCH	59.25B	23.25A	
2175	----	----	*23.75A	----	25.50-	40	.111	----	----	8	UNCH	60.25B	23.75A	
2180	----	----	*24.25A	----	26.00-	40	.113	----	----	1	UNCH	61.25B	24.25A	
2200	26.00	27.50B	*26.00	----	27.90-	50	.121	----	1	14 +	1	65.50B	26.00	
2210	----	----	*27.00A	----	28.90-	50	.125	----	----	40	UNCH	67.75B	27.00A	
2225	----	31.25B	*28.25A	----	30.50-	50	.132	----	----	6	UNCH	71.25B	28.25A	
2250	----	----	*31.00A	----	33.20-	70	.144	----	----	9	UNCH	77.50B	31.00A	
2270	----	----	*33.25A	----	35.60-	80	.154	----	----	40	UNCH	82.75B	33.25A	
2280	----	38.00B	*34.25A	----	36.90-	80	.160	----	----	3	UNCH	85.50B	34.25A	
2290	----	39.25B	*35.50A	----	38.20-	90	.165	----	----	66	UNCH	88.25B	35.50A	
2300	----	40.75B	*36.75A	----	39.50-	100	.171	----	----	20	UNCH	91.00B	36.75A	
2310	----	----	*38.00A	----	40.90-	100	.177	----	----	1	UNCH	94.00B	38.00A	
2325	----	44.25B	*40.00A	----	43.00-	110	.186	----	----	4	UNCH	98.50B	40.00A	
2330	----	45.25B	*40.75A	----	43.80-	110	.189	----	----	141	UNCH	100.00B	40.75A	
2340	----	46.75B	*42.25A	----	45.30-	120	.195	----	----	130	UNCH	103.25B	42.25A	
2350	----	48.25B	*43.75A	----	46.80-	130	.202	----	----	4	UNCH	106.50B	43.75A	
2375	----	52.75B	*47.50A	----	51.00-	140	.219	----	----	3	UNCH	115.00B	47.50A	
2400	----	57.25B	*51.75A	----	55.40-	160	.238	----	----	95	UNCH	124.00B	51.75A	
2425	----	62.50B	*56.25A	----	60.20-	180	.258	----	----	45	UNCH	133.75B	56.25A	
2430	----	63.50B	*57.25A	----	61.30-	170	.262	----	----	44	UNCH	135.75B	57.25A	
2440	----	65.50B	*59.25A	----	63.30-	190	.271	----	----	45	UNCH	140.00B	59.25A	
2450	----	67.75B	*61.25A	----	65.50-	190	.280	----	----	86	UNCH	144.00B	61.25A	
2460	----	70.25B	*63.50A	----	67.70-	200	.289	----	----	45	UNCH	148.50B	63.50A	
2475	----	73.75B	*66.75A	----	71.10-	220	.303	----	----	21	UNCH	155.00B	66.75A	
2500	----	80.25B	*72.50A	----	77.30-	230	.328	----	----	42	UNCH	166.75B	72.50A	
2525	81.75	87.25B	*79.00A	----	84.00+	NEW	.354	----	1	1 +	1	179.00B	79.00A	
2550	----	94.75B	*86.00A	----	91.30-	280	.383	----	----	18	UNCH	192.25B	86.00A	
2570	----	101.25B	*92.00A	----	97.60-	310	.407	----	----	15	UNCH	203.25B	92.00A	
2580	----	104.75B	*95.25A	----	100.90-	320	.420	----	----	1	UNCH	209.00B	95.25A	
2590	----	108.25B	*98.50A	----	104.30-	340	.432	----	----	216	UNCH	215.00B	98.50A	
2600	----	112.00B	*101.75A	----	107.90-	340	.445	----	----	162	UNCH	220.75B	101.75A	
2630	----	123.75B	*112.75A	----	119.30-	380	.486	----	----	3	UNCH	239.50B	112.75A	
2690	----	151.00B	*138.25A	----	145.80-	470	.575	----	----	1	UNCH	280.50B	138.25A	
2700	----	156.25B	*143.00A	----	150.80-	480	.591	----	----	8	UNCH	287.75B	143.00A	
2710	----	161.50B	*148.00A	----	155.90-	490	.606	----	----	1	UNCH	295.25B	148.00A	
3080	----	----	----	----	453.70-	790	.974	----	----	4	UNCH	618.00B	472.75A	
TOTAL										6		1991 +	5	

ADDITIONAL E-MINI S&P PUTS

STRIKE	OPEN	RANGE	HIGH	LOW	CLOSING RANGE	SETT. PRICE & PT. CHGE.	DELTA	EXER CISES	VOLUME TRADES CLEARED	OPEN INTEREST	CONTRACT-- HIGH	CONTRACT-- LOW
EOW3 MINI S&P P	EOW3 MINI S&P P	EOW3 MINI S&P P	(FUTURES SETT. .00)	(FUTURES SETT. .00)	(FUTURES SETT. .00)	(FUTURES SETT. .00)	(FUTURES SETT. .00)	(FUTURES SETT. .00)	(FUTURES SETT. .00)	(FUTURES SETT. .00)	(FUTURES SETT. .00)	(FUTURES SETT. .00)
100	----	----	----	----	----	CAB	----	----	494	3426 +	494	.05
1050	----	----	----	----	----	CAB	----	----	725	UNCH	.30B	.10
1075	----	----	----	----	----	CAB	----	----	1597	UNCH	.35B	.05A
1100	----	----	----	----	----	CAB	----	----	878	UNCH	.30B	.05A
1125	----	----	----	----	----	CAB	----	----	4	UNCH	.40B	.05A
1150	----	----	----	----	----	CAB	----	----	745	UNCH	.45B	.05A
1175	----	----	----	----	----	CAB	----	----	384	UNCH	.50B	.05A
1200	----	----	----	----	----	CAB	----	----	2838	UNCH	.60	.05A
1225	----	----	----	----	----	CAB	----	----	33	UNCH	.75	.05A
1250	----	----	----	----	----	CAB	----	----	1573	UNCH	.65B	.05A
1275	----	----	----	----	----	CAB	----	----	1744	UNCH	.70B	.05A
1300	----	----	----	----	----	CAB	----	----	925	UNCH	1.30	.10A
1325	----	----	----	----	----	CAB	----	----	1029	UNCH	1.10	.10A
1350	----	----	----	----	----	CAB	----	----	2056	UNCH	1.20	.10A
1375	----	----	----	----	----	CAB	----	----	789	UNCH	1.20	.10A
1400	----	----	----	----	----	CAB	----	----	2310	UNCH	1.20	.10A
1425	----	----	----	----	----	CAB	----	----	777	UNCH	1.25B	.10A
1450	----	----	----	----	----	CAB	----	----	3085	UNCH	1.35B	.10A
1475	----	----	----	----	----	CAB	----	----	1207	UNCH	1.45B	.10A
1500	----	----	----	----	----	CAB	----	----	3490 +	40	1.65B	.10A
1525	----	----	----	----	----	CAB	----	----	104	UNCH	2.10	.05A
1550	----	----	----	----	----	CAB	----	----	2038	UNCH	2.25	.05A
1575	----	----	----	----	----	CAB	----	----	1497	UNCH	2.40	.05
1600	----	----	----	----	----	CAB	----	----	2357	UNCH	2.80	.10
1625	----	----	----	----	----	CAB	----	----	926	UNCH	3.00	.15A
1650	----	----	----	----	----	CAB	----	----	1289	UNCH	3.05	.15A
1675	----	----	----	----	----	CAB	----	----	3471	UNCH	3.40	.05
1700	----	----	----	----	----	CAB	----	----	4744	UNCH	3.20	.10
1725	----	----	----	----	----	CAB	----	----	584	UNCH	3.25B	.10A
1												



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PG48 BULLETIN # 11@ E-MINI S&P 500 PUT OPTIONS wed, Jan 16, 2019 PG48

Table with columns for strike price, bid, ask, and volume. Rows range from 1970 to 2690. Includes data for various contract types like CAB and UNCH.

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PG48	BULLETIN # 11@	E-MINI S&P 500 PUT OPTIONS										wed, Jan 16, 2019		PG48
2765	----	162.25B	143.25A	----	154.30-	7.20	.936	----	----	17	UNCH	371.25B	56.25A	
2770	----	167.00B	148.00A	----	159.10-	7.20	.941	----	----	228	UNCH	376.00B	57.75A	
2775	----	171.75B	152.75A	----	163.80-	7.30	.946	----	----	607	UNCH	380.75B	59.25A	
2780	----	----	----	----	168.60-	7.30	.950	----	----	152	UNCH	385.75B	60.75A	
2785	----	----	----	----	173.40-	7.30	.954	----	----	282	UNCH	390.50B	62.25A	
2790	----	----	----	----	178.20-	7.40	.957	----	----	53	UNCH	395.50B	64.00A	
2795	----	----	----	----	183.10-	7.40	.961	----	----	109	UNCH	400.25B	65.50A	
2800	----	----	----	----	187.90-	7.40	.964	----	15	247	UNCH	405.25B	67.00A	
2805	----	----	----	----	192.80-	7.40	.966	----	----	281	UNCH	410.00B	69.00A	
2810	----	----	----	----	197.70-	7.40	.969	----	----	1	UNCH	415.00B	71.00A	
2815	----	----	----	----	202.60-	7.40	.971	----	----	7	UNCH	420.00B	72.75A	
2820	----	----	----	----	207.50-	7.50	.973	----	----	4	UNCH	424.75B	74.75A	
2825	208.00	208.00	201.00A	----	212.40-	7.50	.976	----	2	568 -	2	429.75B	76.75A	
2830	----	----	----	----	217.30-	7.50	.977	----	----	45	UNCH	430.00B	78.75A	
2835	----	----	----	----	222.20-	7.60	.978	----	----	113	UNCH	435.00B	81.00A	
2840	----	----	----	----	227.20-	7.50	.980	----	----	176	UNCH	440.00B	83.00A	
2845	----	----	----	----	232.10-	7.60	.982	----	----	5	UNCH	419.00B	85.25A	
2850	----	----	----	----	237.00-	7.60	.983	----	1	20	UNCH	423.75B	87.50A	
2855	----	----	----	----	242.00-	7.60	.984	----	----	4	UNCH	428.75B	90.00A	
2860	----	----	----	----	246.90-	7.70	.984	----	----	3	UNCH	433.75B	92.50A	
2865	----	----	----	----	251.90-	7.60	.985	----	----	2	UNCH	438.50B	94.75A	
2870	----	----	----	----	256.90-	7.60	.987	----	----	153	UNCH	443.50B	97.50A	
2875	----	----	----	----	261.80-	7.60	.987	----	----	124	UNCH	448.50B	100.00A	
2880	----	----	----	----	266.80-	7.60	.988	----	----	91	UNCH	453.25B	102.75A	
2885	----	----	----	----	271.80-	7.60	.988	----	----	1	UNCH	458.25B	105.50A	
2920	----	----	----	----	306.60-	7.60	.991	----	----	6	UNCH	569.50B	127.00A	
2930	----	----	----	----	316.50-	7.70	.992	----	----	10	UNCH	579.50B	134.00A	
2935	----	----	----	----	321.50-	7.60	.992	----	----	15	UNCH	584.50B	137.50A	
2940	----	----	----	----	326.50-	7.60	.993	----	----	2	UNCH	512.75B	141.00A	
2955	----	----	----	----	341.40-	7.70	.993	----	----	1	UNCH	527.50B	152.25A	
3000	----	----	----	----	386.20-	7.70	.996	----	----	2	UNCH	572.25B	189.50A	
3010	----	----	----	----	396.20-	7.70	.996	----	----	1	UNCH	582.25B	198.25A	
3015	----	----	----	----	401.20-	7.70	.996	----	----	1	UNCH	587.25B	202.50A	
3100	----	----	----	----	485.90-	7.60	.999	----	----	887	UNCH	671.50B	279.00A	
3500	----	----	----	----	885.00-	7.70	1.000	----	----	526	UNCH	1070.00B	691.50A	
TOTAL										76955	356878 +	4923		
APR19	EOW3 MINT S&P P	(FUTURES SETT. .00)												
1100	----	----	----	----	.20+	0.05	.000	----	----	219	232 +	219	.85B .30A	
1175	----	----	----	----	.25	UNCH	.001	----	----	201	UNCH	1.20B	.35A	
1225	----	----	----	----	.30+	0.05	.001	----	----	401	UNCH	1.50B	.35A	
1250	----	----	----	----	.35+	0.05	.001	----	----	479	UNCH	1.70B	.35	
1275	----	----	----	----	.40+	0.05	.001	----	----	51	UNCH	1.90B	.45	
1300	----	----	----	----	.45+	0.05	.001	----	----	2	UNCH	2.10B	.45A	
1325	----	----	----	----	.50+	0.10	.002	----	----	219	UNCH	2.35B	.50A	
1350	----	----	----	----	.50+	0.05	.002	----	----	20	UNCH	2.65B	.55A	
1375	----	----	----	----	.55+	0.05	.002	----	----	533	UNCH	2.95B	.50A	
1400	----	----	----	----	.60+	0.05	.002	----	----	80	UNCH	3.30B	.55A	
1425	----	----	----	----	.70+	0.10	.003	----	----	62	UNCH	3.65B	.60A	
1450	----	----	----	----	.75+	0.10	.003	----	----	374	UNCH	4.05B	.60	
1475	----	----	----	----	.80+	0.10	.003	----	----	79	UNCH	4.50B	.65A	
1500	----	----	----	----	.90+	0.10	.004	----	----	104	UNCH	5.00B	.65A	
1525	----	----	----	----	.95+	0.10	.004	----	----	2	UNCH	6.00B	.70A	
1550	----	----	----	----	1.05+	0.10	.005	----	----	899	UNCH	6.00B	.80A	
1575	----	----	----	----	1.15+	0.10	.005	----	----	82	UNCH	7.25B	.85A	
1600	.95	1.05B	.95	----	1.25+	0.10	.006	----	16	233 +	16	8.25B	.95	
1625	----	----	----	----	1.35+	0.10	.006	----	----	590	UNCH	9.00B	1.05A	
1650	----	----	----	----	1.45+	0.10	.006	----	----	63	UNCH	10.00B	1.15A	
1675	----	----	1.35A	----	1.50+	0.10	.007	----	----	20	UNCH	11.25B	1.25A	
1700	----	----	1.45A	----	1.60+	0.05	.008	----	1	523 +	1	12.50B	1.35A	
1725	----	----	1.60A	----	1.80+	0.10	.009	----	----	1207	UNCH	13.75B	1.50A	
1750	1.75	1.85B	1.75	----	1.95+	0.05	.010	----	200	840 -	168	15.25B	1.70A	
1775	----	----	1.90A	----	2.15+	0.05	.011	----	----	823	UNCH	17.00B	1.85A	
1800	----	----	2.10A	----	2.35+	0.05	.012	----	20	1532	UNCH	18.75B	1.95	
1825	----	----	2.30A	----	2.65+	0.10	.014	----	----	154	UNCH	20.75B	2.25A	
1850	2.55	2.80B	2.55	----	2.90+	0.10	.016	----	66	228 +	14	23.00B	2.50A	
1860	----	2.95B	2.65A	----	3.05+	0.15	.016	----	----	45	UNCH	16.25B	2.60A	
1870	----	3.10B	2.75A	----	3.20+	0.15	.017	----	----	174	UNCH	17.00B	2.70A	
1875	3.05	3.15B	2.80A	----	3.25+	0.15	.018	----	19	296 +	7	25.25B	2.75	
1880	2.95	3.20B	2.90A	----	3.30	NEW	.018	----	200	200 +	200	17.75B	2.80A	
1890	3.15	3.35B	3.00A	----	3.45+	0.15	.019	----	4	117 +	1	18.50B	2.95A	
1900	3.05	3.50B	3.05	----	3.60+	0.15	.020	----	1460	3074 -	713	28.00B	3.00	
1910	----	3.65B	3.25A	----	3.75+	0.15	.021	----	----	5	UNCH	20.00B	3.20A	
1920	----	3.80B	3.40A	----	3.95+	0.20	.022	----	----	16	UNCH	30.25B	3.35A	
1925	3.55	3.90B	3.45A	----	4.00+	0.20	.022	----	200	334 +	200	30.75B	3.40A	
1930	----	4.00B	3.55A	----	4.10	NEW	.023	----	10	10 +	10	31.50B	3.50A	
1940	----	4.10B	3.70A	----	4.25+	0.20	.024	----	----	309	UNCH	32.75B	3.65A	
1950	----	4.35B	3.85A	----	4.45+	0.20	.025	----	----	37	UNCH	34.00B	3.80A	
1960	----	4.55B	4.00A	----	4.65+	0.20	.026	----	30	49 +	30	35.25B	4.00A	
1970	----	4.70B	4.20A	----	4.85+	0.20	.027	----	2	196 +	2	36.75B	4.15A	
1975	----	4.85B	4.30A	----	4.95+	0.20	.028	----	----	142	UNCH	37.50B	4.25A	
1980	----	4.95B	4.40A	----	5.00+	0.15	.028	----	----	115	UNCH	38.00B	4.35A	
1990	4.55	5.00B	4.55	----	5.30+	0.20	.030	----	1	154	UNCH	39.50B	4.55A	
2000	----	4.75A	4.75A	----	5.50+	0.20	.031	----	100	1755 +	100	41.25B	4.75A	
2010	----	5.00A	5.00A	----	5.70+	0.10	.033	----	150	365 +	10	42.75B	5.00A	
2020	----	5.25A	5.25A	----	6.00+	0.20	.034	----	2	41 +	2	44.50B	5.25A	
2025	----	5.50A	6.10+	0.10	.035	----	1	564	UNCH	45.25B	5.50A			
2030	----	5.50A	6.20+	0.10	.036	----	12	189 +	12	46.00B	5.50A			
2040	----	5.75A	6.50+	0.10	.037	----	150	164 +	126	47.75B	5.75A			
2050	----	*6.00A	6.80+	0.10	.039	----	2	245	UNCH	49.75B	6.00A			
2060	6.25	*6.25	7.10+	0.10	.041	----	15	1281 +	4	51.50B	6.25			
2070	6.50	7.25B	7.40+	0.10	.043	----	19	180 +	14	53.50B	6.50			
2075	----	*6.75A	7.60+	0.10	.044	----	----	230	UNCH	54.50B	6.75A			
2080	6.75	7.50B	*6.75	UNCH	.045	----	19	350 +	19	55.50B	6.75			
2090	----	*7.25A	8.10+	0.10	.047	----	10	2						



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Table with columns: PG48, BULLETIN # 11@, E-MINI S&P 500 PUT OPTIONS, wed, Jan 16, 2019, PG48. Contains multiple columns of market data for put options.

Table with columns: MDW MID, MDW MID, (FUTURES SETT. .00), CAB, and various numerical values. Contains market data for futures settlements.

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PG48	BULLETIN # 11@	E-MINI S&P 500 PUT OPTIONS										wed, Jan 16, 2019	PG48	
2555	6.00	6.00	*3.75A	----		4.95-	2.45	.141	----	16	137 +	10	23.50B	3.75A
2560	5.50	8.50B	*4.15A	----	CAB	5.50-	2.70	.158	----	536	91 +	1042	122.75B	.05
2565	6.00	9.25B	*4.60A	----	CAB	6.20-	2.80	.178	----	168	245 +	1356	127.25B	4.15A
2570	6.50	10.25B	*5.25A	----	CAB	6.90-	3.10	.199	----	162	208	161	27.50B	.05
2575	7.00	11.50B	*5.75A	----	CAB	7.80-	3.30	.224	----	46	72 -	901	131.75B	4.60A
2580	7.50	12.75B	*6.50A	----	CAB	8.70-	3.60	.250	----	1233	182 +	1071	32.00B	.05
2585	8.00	14.25B	*7.25A	----	CAB	9.80-	3.90	.279	----	168	1404	59	140.75B	5.75A
2590	8.50	15.75B	*8.00A	----	CAB	11.00-	4.20	.311	----	1327	137 +	99	34.50B	6.50A
2595	9.00	17.00B	*8.00A	----	CAB	12.30-	4.60	.346	----	905	160 +	6	37.25B	7.25A
2600	9.50	18.50B	*10.00A	----	CAB	13.80-	5.10	.384	----	1817	86 +	41	40.00B	8.00A
2605	10.00	20.00B	*11.25A	----	CAB	15.60-	5.40	.425	----	44	248 +	14	43.00B	9.00A
2610	10.50	21.50B	*12.75A	----	CAB	17.50-	5.80	.468	----	1627	236 +	152	45.00B	10.00A
2615	11.00	23.00B	*14.25A	----	CAB	19.70-	6.10	.512	----	53	350	1076	159.75B	.05
2620	11.50	24.50B	*16.00A	----		22.10-	6.50	.559	----	237	144 +	24	53.00B	11.25A
2625	12.00	26.00B	*18.25A	----		24.90-	7.00	.604	----	3082	236 +	152	53.25	10.00A
2630	12.50	27.50B	*20.50A	----		27.80-	7.50	.650	----	51	144 +	24	53.00B	11.25A
2635	13.00	29.00B	*23.00A	----		30.80-	8.00	.693	----	4348	73 +	51	51.75B	12.75A
2640	13.50	30.50B	*25.25A	----		33.80-	8.50	.734	----	66	24 +	12	55.25B	14.25A
2645	14.00	32.00B	*28.00A	----		36.80-	9.00	.771	----	4965	35 +	28	66.75B	20.50A
2650	14.50	33.50B	*30.25A	----		39.80-	9.50	.805	----	19	35 +	28	66.75B	20.50A
2655	15.00	35.00B	*32.50A	----		42.10-	10.00	.843	----	595	1 +	2	184.75B	10.75A
2660	15.50	36.50B	*35.00A	----		44.50-	10.50	.883	----	16	13 +	8	71.00B	23.00A
2665	16.00	38.00B	*37.50A	----		47.00-	11.00	.923	----	188	33	33	116.75B	15.25A
2670	16.50	39.50B	*40.00A	----		49.50-	11.50	.963	----	785	48	45	63.00B	18.25A
2675	17.00	41.00B	*42.50A	----		52.00-	12.00	1.003	----	48	72 +	3	107.75B	5.25
2680	17.50	42.50B	*45.00A	----		54.50-	12.50	1.043	----	11	35 +	28	66.75B	20.50A
2685	18.00	44.00B	*47.50A	----		57.00-	13.00	1.083	----	3	2	2	184.75B	10.75A
2690	18.50	45.50B	*50.00A	----		59.50-	13.50	1.123	----	31	13 +	8	71.00B	23.00A
2695	19.00	47.00B	*52.50A	----		62.00-	14.00	1.163	----	31	35 +	33	75.25B	26.00
2700	19.50	48.50B	*55.00A	----		64.50-	14.50	1.203	----	43	35 +	33	98.00B	20.50A
2705	20.00	50.00B	*57.50A	----		67.00-	15.00	1.243	----	9	6 +	5	79.50B	29.00A
2710	20.50	51.50B	*60.00A	----		69.50-	15.50	1.283	----	1	1 +	1	84.00B	32.75A
2715	21.00	53.00B	*62.50A	----		72.00-	16.00	1.323	----	2	1	1	107.25B	30.25A
2720	21.50	54.50B	*65.00A	----		74.50-	16.50	1.363	----	5	5 +	5	93.00B	40.50A
2725	22.00	56.00B	*67.50A	----		77.00-	17.00	1.403	----	5	5 +	5	----	----
2730	22.50	57.50B	*70.00A	----		79.50-	17.50	1.443	----	1295	494	801	----	----
2735	23.00	59.00B	*72.50A	----		82.00-	18.00	1.483	----	494	7484	9645	----	----
2740	23.50	60.50B	*75.00A	----		84.50-	18.50	1.523	----	32838	7484	9645	----	----
2745	24.00	62.00B	*77.50A	----		87.00-	19.00	1.563	----					
2750	24.50	63.50B	*80.00A	----		89.50-	19.50	1.603	----					
2755	25.00	65.00B	*82.50A	----		92.00-	20.00	1.643	----					
2760	25.50	66.50B	*85.00A	----		94.50-	20.50	1.683	----					
2765	26.00	68.00B	*87.50A	----		97.00-	21.00	1.723	----					
2770	26.50	69.50B	*90.00A	----		99.50-	21.50	1.763	----					
2775	27.00	71.00B	*92.50A	----		102.00-	22.00	1.803	----					
2780	27.50	72.50B	*95.00A	----		104.50-	22.50	1.843	----					
2785	28.00	74.00B	*97.50A	----		107.00-	23.00	1.883	----					
2790	28.50	75.50B	*100.00A	----		109.50-	23.50	1.923	----					
2795	29.00	77.00B	*102.50A	----		112.00-	24.00	1.963	----					
2800	29.50	78.50B	*105.00A	----		114.50-	24.50	1.999	----					
2805	30.00	80.00B	*107.50A	----		117.00-	25.00	2.039	----					
2810	30.50	81.50B	*110.00A	----		119.50-	25.50	2.079	----					
2815	31.00	83.00B	*112.50A	----		122.00-	26.00	2.119	----					
2820	31.50	84.50B	*115.00A	----		124.50-	26.50	2.159	----					
2825	32.00	86.00B	*117.50A	----		127.00-	27.00	2.199	----					
2830	32.50	87.50B	*120.00A	----		129.50-	27.50	2.239	----					
2835	33.00	89.00B	*122.50A	----		132.00-	28.00	2.279	----					
2840	33.50	90.50B	*125.00A	----		134.50-	28.50	2.319	----					
2845	34.00	92.00B	*127.50A	----		137.00-	29.00	2.359	----					
2850	34.50	93.50B	*130.00A	----		139.50-	29.50	2.399	----					
2855	35.00	95.00B	*132.50A	----		142.00-	30.00	2.439	----					
2860	35.50	96.50B	*135.00A	----		144.50-	30.50	2.479	----					
2865	36.00	98.00B	*137.50A	----		147.00-	31.00	2.519	----					
2870	36.50	99.50B	*140.00A	----		149.50-	31.50	2.559	----					
2875	37.00	101.00B	*142.50A	----		152.00-	32.00	2.599	----					
2880	37.50	102.50B	*145.00A	----		154.50-	32.50	2.639	----					
2885	38.00	104.00B	*147.50A	----		157.00-	33.00	2.679	----					
2890	38.50	105.50B	*150.00A	----		159.50-	33.50	2.719	----					
2895	39.00	107.00B	*152.50A	----		162.00-	34.00	2.759	----					
2900	39.50	108.50B	*155.00A	----		164.50-	34.50	2.799	----					
2905	40.00	110.00B	*157.50A	----		167.00-	35.00	2.839	----					
2910	40.50	111.50B	*160.00A	----		169.50-	35.50	2.879	----					
2915	41.00	113.00B	*162.50A	----		172.00-	36.00	2.919	----					
2920	41.50	114.50B	*165.00A	----		174.50-	36.50	2.959	----					
2925	42.00	116.00B	*167.50A	----		177.00-	37.00	2.999	----					
2930	42.50	117.50B	*170.00A	----		179.50-	37.50	3.039	----					
2935	43.00	119.00B	*172.50A	----		182.00-	38.00	3.079	----					
2940	43.50	120.50B	*175.00A	----		184.50-	38.50	3.119	----					
2945	44.00	122.00B	*177.50A	----		187.00-	39.00	3.159	----					
2950	44.50	123.50B	*180.00A	----		189.50-	39.50	3.199	----					
2955	45.00	125.00B	*182.50A	----		192.00-	40.00	3.239	----					
2960	45.50	126.50B	*185.00A	----		194.50-	40.50	3.279	----					
2965	46.00	128.00B	*187.50A	----		197.00-	41.00	3.319	----					
2970	46.50	129.50B	*190.00A	----		199.50-	41.50	3.359	----					
2975	47.00	131.00B	*192.50A	----		202.00-	42.00	3.399	----					
2980	47.50	132.50B	*195.00A	----		204.50-	4							



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PRELIMINARY

Table with columns: PG48, BULLETIN # 11@, E-MINI S&P 500 PUT OPTIONS, wed, Jan 16, 2019, PG48. It contains multiple columns of numerical data representing option prices and volumes for various strike prices and contract types.

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PRELIMINARY

PG48	BULLETIN # 11@	E-MINI S&P 500 PUT OPTIONS										wed, Jan 16, 2019		PG48
1470	----	----	25.80A	----	30.30-	6.70	.612	----	----	6	UNCH	202.50B	17.10A	
1470	----	----	14.60A	----	18.80-	10.00	.810	----	----	9	UNCH	201.60B	8.60A	
1475	----	----	28.50A	----	33.20-	7.20	.650	----	----	2	UNCH	207.30B	18.00A	
1475	----	----	18.00A	----	22.80-	10.40	.874	----	----	23	UNCH	206.50B	8.60A	
1480	----	----	22.10A	----	27.20-	10.70	.917	----	----	14	UNCH	211.30B	8.90A	
1485	----	----	34.40A	----	39.70-	8.00	.723	----	----	1	UNCH	216.90B	19.90A	
1485	----	----	26.00A	----	31.80-	10.80	.944	----	----	1	UNCH	216.30B	15.90A	
1490	----	----	30.70A	----	36.60-	10.80	.961	----	----	4	UNCH	221.20B	9.40A	
1500	----	----	44.90A	----	50.90-	9.10	.819	----	----	3	UNCH	231.40B	23.20A	
1500	----	----	56.90A	----	46.30-	10.90	.980	----	----	69	UNCH	219.80B	10.00A	
1505	----	----	----	----	51.20-	10.90	.986	----	----	1	UNCH	224.80B	17.20A	
1510	----	----	----	----	56.10-	11.00	.988	----	----	9	UNCH	229.50B	10.70A	
1515	----	----	----	----	61.10-	10.90	.992	----	----	15	UNCH	235.60B	14.10A	
1520	----	----	----	----	66.00-	11.00	.993	----	----	4	UNCH	239.40B	11.40A	
1525	----	----	----	----	71.00-	11.00	.995	----	----	2	UNCH	244.60B	11.80A	
1530	----	----	70.60A	----	77.40-	10.30	.932	----	----	2	UNCH	249.60B	31.60A	
1530	----	----	----	----	75.90-	11.00	.996	----	----	13	UNCH	249.50B	12.20A	
1535	----	----	----	----	80.90-	11.00	.997	----	----	21	UNCH	254.30B	13.40A	
1540	----	----	----	----	85.90-	11.00	.998	----	----	6	UNCH	259.30B	13.00A	
1545	----	----	----	----	90.90-	11.00	.998	----	----	33	UNCH	264.30B	14.40A	
1550	----	----	----	----	95.90-	11.00	.998	----	----	1	UNCH	269.40B	13.90A	
1555	----	----	----	----	100.90-	11.00	.999	----	----	2	UNCH	263.30B	15.50A	
1560	----	----	----	----	105.80-	11.00	.999	----	----	39	UNCH	268.30B	14.80A	
1570	----	----	----	----	115.80-	11.00	.999	----	----	8	UNCH	278.20B	15.90A	
1575	----	----	----	----	120.80-	11.00	.999	----	----	14	UNCH	283.20B	16.40A	
1600	----	----	----	----	145.80-	11.00	1.000	----	----	252	UNCH	308.10B	19.50A	
1620	----	----	----	----	165.80-	11.00	1.000	----	----	2	UNCH	328.10B	22.40A	
1700	----	----	----	----	245.80-	10.90	1.000	----	----	1	UNCH	253.30B	39.80A	
TOTAL										266		2794 +	25	
FEB19	RTM EOM	(FUTURES SETT. .00)												
975	----	----	----	----	.25+	0.05	.003	----	----	36	UNCH	5.10B	.25A	
1000	----	----	----	----	.30+	0.05	.003	----	----	5	UNCH	6.40B	.30A	
1025	----	----	----	----	.35+	0.10	.004	----	----	7	UNCH	8.00B	.35A	
1080	----	----	----	----	.50+	0.05	.007	----	2	2	UNCH	13.20B	.45A	
1100	----	----	----	----	.65+	0.10	.009	----	----	2	UNCH	15.30B	.60A	
1125	----	.70B	----	----	.80+	0.15	.011	----	----	15	UNCH	20.30B	.75A	
1130	----	.75B	----	----	.80+	0.10	.011	----	----	10	UNCH	21.20B	.75A	
1150	----	.90B	.80A	----	.95+	0.10	.014	----	----	167	UNCH	25.30B	.80A	
1160	----	.95B	----	----	1.05+	0.15	.016	----	----	1	UNCH	27.60B	.90A	
1170	----	1.05B	*.95A	----	1.10+	0.10	.017	----	----	5	UNCH	30.10B	.95A	
1175	----	1.10B	*1.00A	----	1.15+	0.10	.018	----	----	2	UNCH	31.30B	1.00A	
1180	----	1.15B	*1.05A	----	1.20+	0.10	.019	----	----	2	UNCH	32.70B	1.05A	
1185	----	1.20B	*1.10A	----	1.25+	0.10	.019	----	----	2	UNCH	34.10B	1.10A	
1190	----	1.30B	*1.15A	----	1.35+	0.15	.021	----	2	2	UNCH	35.50B	1.15A	
1200	----	1.40B	*1.25A	----	1.45+	0.10	.023	----	----	156	UNCH	38.50B	1.25A	
1230	----	----	*1.65A	----	1.95+	0.05	.032	----	----	1	UNCH	48.90B	1.65A	
1245	----	----	*3.45A	----	3.55-	0.10	.053	----	----	3	UNCH	59.60B	3.45A	
1250	----	----	*2.00A	----	2.40	UNCH	.040	----	----	6	UNCH	57.00B	2.00A	
1265	----	----	*2.35A	----	2.80-	0.05	.048	----	----	1	UNCH	63.70B	2.35A	
1270	----	----	*2.50A	----	2.95-	0.10	.051	----	1	3	UNCH	66.10B	2.50A	
1275	----	----	*4.60A	----	4.85-	0.35	.073	----	----	1	UNCH	73.10B	4.60A	
1275	----	----	*2.65A	----	3.10-	0.15	.053	----	----	1	UNCH	68.50B	2.65A	
1280	----	----	*4.85A	----	5.10-	0.40	.077	----	----	4	UNCH	75.60B	4.85A	
1280	----	----	*2.80A	----	3.30-	0.15	.057	----	----	6	UNCH	71.00B	2.80A	
1290	----	----	*3.15A	----	3.70-	0.20	.064	----	----	11	UNCH	76.30B	3.15A	
1295	----	----	*5.70A	----	6.10-	0.50	.092	----	----	1	UNCH	83.30B	5.70A	
1300	----	----	*6.00A	----	6.40-	0.60	.096	----	----	6	UNCH	86.10B	6.00A	
1300	----	----	*3.55A	----	4.15-	0.30	.073	----	----	3	UNCH	81.80B	3.55A	
1305	----	----	*3.80A	----	4.40-	0.35	.077	----	----	1	UNCH	84.70B	3.80A	
1310	----	----	*4.05A	----	4.70-	0.40	.083	----	----	3	UNCH	87.60B	4.05A	
1310	----	----	*1.80A	----	1.70-	0.20	.039	----	2	2	UNCH	5.10B	1.80A	
1315	----	----	*4.30A	----	5.00-	0.50	.088	----	----	51	UNCH	88.10B	4.30A	
1320	----	----	*4.60A	----	5.30-	0.60	.093	----	----	54	UNCH	86.60B	4.60A	
1320	----	----	*7.40A	----	8.10-	0.90	.121	----	----	3	UNCH	94.60B	7.40A	
1325	----	----	*4.90A	----	5.60-	0.70	.099	----	----	1	UNCH	89.60B	4.90A	
1330	----	----	*5.20A	----	6.00-	0.80	.106	----	----	2	UNCH	92.60B	5.20A	
1335	----	----	*5.60A	----	6.40-	0.80	.113	----	2	3 +	2	95.70B	5.60A	
1340	----	----	*6.00A	----	6.80-	1.00	.120	----	----	2	UNCH	98.90B	6.00A	
1345	----	----	*6.50A	----	7.30-	1.10	.129	----	----	1	UNCH	102.20B	6.50A	
1350	----	----	*6.90A	----	7.80-	1.20	.138	----	1	7 +	1	105.50B	6.90A	
1350	2.90	2.90	*2.90	----	3.30-	0.60	.080	----	1	----	1	9.80B	2.90	
1360	----	----	*7.90A	----	8.90-	1.40	.157	----	7	5	UNCH	112.40B	7.90A	
1370	----	----	9.20A	----	10.30-	1.60	.179	----	----	2	UNCH	119.50B	9.10A	
1375	----	----	9.90A	----	11.00-	1.80	.191	----	1	3 +	1	123.20B	9.60A	
1375	----	----	*4.50A	----	5.10-	1.20	.125	----	2	2	UNCH	14.70B	4.50A	
1380	----	----	10.50A	----	11.80-	1.90	.204	----	2	14	UNCH	127.00B	10.00A	
1385	----	----	*15.80A	----	17.50-	2.20	.248	----	----	1	UNCH	132.40B	15.80A	
1385	----	----	11.30A	----	12.60-	2.10	.217	----	----	1	UNCH	130.80B	10.30A	
1400	----	----	*18.80A	----	20.80-	2.70	.290	----	----	20	UNCH	143.90B	18.80A	
1400	----	----	13.80A	----	15.60-	2.50	.263	----	----	28	UNCH	142.60B	11.80A	
1405	----	----	14.80A	----	16.70	NEW	.279	----	2	2 +	2	146.70B	12.30A	
1410	----	----	15.80A	----	17.90-	2.90	.297	----	----	3	UNCH	150.80B	12.80A	
1410	----	----	*21.00A	----	23.30-	3.10	.321	----	----	1	UNCH	151.80B	21.00A	
1415	----	----	17.00A	----	19.20-	3.10	.315	----	----	4	UNCH	154.90B	13.40A	
1420	----	----	*23.70A	----	26.20-	3.50	.355	----	----	1	UNCH	160.00B	23.70A	
1420	----	----	18.20A	----	20.50	NEW	.334	----	5	5 +	5	159.20B	14.00A	
1425	----	----	*25.10A	----	27.80-	3.70	.372	----	----	2	UNCH	164.10B	25.10A	
1430	----	----	20.90A	----	23.50-	3.80	.376	----	1	4 +	1	167.80B	15.30A	
1435	----	29.30B	22.40A	----	25.20-	4.00	.398	----	----	4	UNCH	172.10B	16.00A	
1435	----	----	*13.70A	----	16.30-	4.00	.366	----	----	1	UNCH	35.60B	13.70A	
1440	----	----	23.90A	----	27.00-	4.30	.420	----	----	6	UNCH	176.50B	16.70A	
1440	----	----	*15.10A	----	17.90-	4.30	.397	----	----	2	UNCH	38.10B	15.10A	
1450	----	----	27.50A	----	30.80-	4.90	.468	----	2	4 +	2	185.50B	18.20A	
1450	----	----	*33.50A	----	36.90-	4.80	.469	----	----	1</				

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PRELIMINARY

PG48 BULLETIN # 11@

E-MINI S&P 500 PUT OPTIONS

wed, Jan 16, 2019 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							
MAR19 CALL	E-MINI S&P 500 OPTIONS						
EZ	1500	----	----	----	----	5	0.00
EZ	1900	----	----	----	----	6	0.00
EZ	1910	----	----	----	----	614	0.00
TOTALS		0	0	0	0	625	0
JUN19 CALL							
EZ	1550	----	----	----	----	5	0.00
EZ	1625	----	----	----	500	500	0.00
EZ	1650	----	----	----	----	5379	0.00
EZ	1675	----	----	----	----	492	0.00
TOTALS		0	0	0	500	6376	0
EMINI S&P PUT							
MAR19 PUT	E-MINI S&P 500 OPTIONS						
EZ	2920	----	----	----	----	77	0.00
EZ	2925	----	----	----	----	1	0.00
EZ	2930	----	----	----	----	1	0.00
EZ	2940	----	----	----	----	1	0.00
EZ	2945	----	----	----	----	93	0.00
EZ	2950	----	----	----	----	2	0.00
EZ	2955	----	----	----	----	23	0.00
EZ	2970	----	----	----	----	667	0.00
EZ	2975	----	----	----	----	60	0.00
EZ	2990	----	----	----	----	16	0.00
EZ	3000	----	----	----	644	2183	0.00
EZ	3005	----	----	----	----	121	0.00
EZ	3010	----	----	----	----	323	0.00
EZ	3015	----	----	----	----	44	0.00
EZ	3020	----	----	----	2	31	0.00
EZ	3025	----	----	----	3	267	0.00
EZ	3045	----	----	----	----	118	0.00
EZ	3050	----	----	----	----	815	0.00
EZ	3060	----	----	----	----	108	0.00
EZ	3075	----	----	----	----	1	0.00
EZ	3100	----	----	----	----	188	0.00
TOTALS		0	0	0	649	5140	0
JUN19 PUT							
EZ	3075	----	----	----	----	877	0.00
EZ	3100	----	----	----	----	213	0.00
EZ	3200	----	----	----	4	4	0.00
TOTALS		0	0	0	4	1094	0
MDW MID							
JAN19 CALL	E-MINI S&P 500 WEDNESDAY WEEKLY OPT						
E3C	100	----	----	----	3936	3936	0.00
E3C	2425	----	----	----	6	6	0.00
E3C	2435	----	----	----	12	12	0.00
E3C	2445	----	----	----	1	1	0.00
E3C	2450	----	----	----	2	2	0.00
E3C	2460	----	----	----	2	2	0.00
E3C	2465	----	----	----	2	2	0.00
E3C	2470	----	----	----	8	8	0.00
E3C	2475	----	----	----	2	2	0.00
E3C	2480	----	----	----	16	16	0.00
E3C	2485	----	----	----	1	1	0.00
E3C	2490	----	----	----	10	10	0.00
E3C	2495	----	----	----	2	2	0.00
E3C	2500	----	----	----	30	30	0.00
E3C	2505	----	----	----	3	3	0.00
E3C	2515	----	----	----	15	15	0.00
E3C	2520	----	----	----	5	5	0.00
E3C	2525	----	----	----	110	110	0.00
E3C	2530	----	----	----	281	281	0.00
E3C	2535	----	----	----	5	5	0.00
E3C	2540	----	----	----	148	148	0.00
E3C	2545	----	----	----	107	107	0.00
E3C	2550	----	----	----	305	305	0.00
E3C	2555	----	----	----	28	28	0.00
E3C	2560	----	----	----	169	169	0.00
E3C	2565	----	----	----	996	996	0.00
E3C	2570	----	----	----	298	298	0.00
E3C	2575	----	----	----	293	293	0.00
E3C	2580	----	----	----	1138	1138	0.00
E3C	2585	----	----	----	877	877	0.00
E3C	2590	----	----	----	962	962	0.00
E3C	2595	----	----	----	774	774	0.00



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PG48	BULLETIN # 11@	E-MINI S&P 500 PUT OPTIONS					wed, Jan 16, 2019		PG48
E3C	2600	----	----	----	1516	1516	0.00		
E3C	2605	----	----	----	1681	1681	0.00		
E3C	2610	----	----	----	2385	2385	0.00		
E3C	2615	----	----	----	1895	1895	0.00		
TOTALS		0	0	0	18021	18021	0		

MDW MID	PUT	E-MINI S&P 500	WEDNESDAY	WEEKLY	OPT			
JAN19								
E3C		2620	----	----	----	595	595	0.00
E3C		2625	----	----	----	188	188	0.00
E3C		2630	----	----	----	11	11	0.00
E3C		2635	----	----	----	3	3	0.00
E3C		2640	----	----	----	31	31	0.00
E3C		2645	----	----	----	31	31	0.00
E3C		2655	----	----	----	2	2	0.00
E3C		2660	----	----	----	1	1	0.00
E3C		2685	----	----	----	1	1	0.00
E3C		4400	----	----	----	1295	1295	0.00
TOTALS			0	0	0	2158	2158	0