



2017 DAILY INFORMATION BULLETIN - http://www.cmegroup.com/dailybulletin

CME Group, Inc.

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

Customer Service: (312) 930-1000



FINAL

PG48 BULLETIN #140@

E-MINI S&P 500 PUT OPTIONS

Mon, Jul 24, 2017 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 contract details for various strike prices from 1590 to 2485.

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



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Table with columns: PG48, BULLETIN #140@, E-MINI S&P 500 PUT OPTIONS, Mon, Jul 24, 2017, PG48. Contains summary data for various contract months and totals.

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 individual contract data for various strike prices.



FINAL

PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS								Mon, Jul 24, 2017				PG48
2500	35.00	38.25B	32.50A	----	34.00+	30	.854	----	1	4 +	1	90.00B	30.00A	
2505	39.50	42.75B	37.00A	----	38.30+	40	.888	----	1	3 +	1	94.75B	33.50A	
2510	----	47.25B	41.25A	----	42.90+	60	.914	----	----	1	UNCH	99.75B	37.50A	
2525	----	61.50B	55.50A	----	57.10+	70	.962	----	----	2	UNCH	86.00B	50.75A	
TOTAL									10691	52448 + 8908				

WK EW-W4 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 LOW	
EOW4 MINI S&P P	EOW4 MINI S&P P	EOW4 MINI S&P P	(FUTURES SETT. .00)										
1500	----	----	----	----	----	----	CAB	----	----	----	60	UNCH	.20B .05
1590	----	----	----	----	----	----	CAB	----	----	----	15	UNCH	.35B .15
1600	----	----	----	----	----	----	CAB	----	----	----	30	UNCH	.35B .10
1625	----	----	----	----	----	----	CAB	----	----	----	25	UNCH	.40B .10
1630	----	----	----	----	----	----	CAB	----	----	----	10	UNCH	.40B .15A
1640	----	----	----	----	----	----	CAB	----	----	----	15	UNCH	.45B .10A
1650	----	----	----	----	----	----	CAB	----	----	----	46	UNCH	.45B .10
1660	----	----	----	----	----	----	CAB	----	----	----	10	UNCH	.50B .10A
1670	----	----	----	----	----	----	CAB	----	----	----	10	UNCH	.50B .10A
1680	----	----	----	----	----	----	CAB	----	----	----	10	UNCH	.55B .10A
1700	----	----	----	----	----	----	CAB	----	----	----	44	UNCH	.60B .10A
1720	----	----	----	----	----	----	CAB	----	----	----	10	UNCH	.65B .10A
1730	----	----	----	----	----	----	CAB	----	----	----	100	UNCH	.70B .10A
1740	----	----	----	----	----	----	CAB	----	----	----	50	UNCH	.70B .05
1750	----	----	----	----	----	----	CAB	----	----	----	410	UNCH	.75B .10
1760	----	----	----	----	----	----	CAB	----	----	----	85	UNCH	.80B .05
1770	----	----	----	----	----	----	CAB	----	----	----	118	UNCH	.85B .05
1775	----	----	----	----	----	----	CAB	----	----	----	46	UNCH	.85B .05
1780	----	----	----	----	----	----	CAB	----	----	----	12	UNCH	.85B .05
1790	----	----	----	----	----	----	CAB	----	----	----	45	UNCH	.90B .05
1800	----	----	----	----	----	----	CAB	----	----	----	206	UNCH	.95B .05
1810	----	----	----	----	----	----	CAB	----	----	----	6	UNCH	1.00B .10A
1820	----	----	----	----	----	----	CAB	----	----	----	394	UNCH	1.05B .10
1825	----	----	----	----	----	----	CAB	----	----	----	412	UNCH	1.05B .15A
1830	----	----	----	----	----	----	CAB	----	----	----	5	UNCH	1.10B .15
1840	----	----	----	----	----	----	CAB	----	----	----	5	UNCH	1.15B .10
1850	----	----	----	----	----	----	CAB	----	----	----	26	UNCH	1.20B .15A
1860	----	----	----	----	----	----	CAB	----	----	----	50	UNCH	1.25B .15A
1870	----	----	----	----	----	----	CAB	----	----	----	11	UNCH	1.30B .15
1875	----	----	----	----	----	----	CAB	----	----	----	119	UNCH	1.30B .15
1880	----	----	----	----	----	----	CAB	----	----	----	85	UNCH	1.35B .05
1890	----	----	----	----	----	----	CAB	----	----	----	26	UNCH	1.40B .15
1900	----	----	----	----	----	----	CAB	----	----	----	155	UNCH	1.45B .05
1910	----	----	----	----	----	----	CAB	----	----	----	546	UNCH	1.50B .15
1925	----	----	----	----	----	----	CAB	----	----	----	32	UNCH	1.55B .10A
1930	----	----	----	----	----	----	CAB	----	----	----	22	UNCH	1.60B .10A
1940	----	----	----	----	----	----	CAB	----	----	----	242	UNCH	1.65B .10A
1950	----	----	----	----	----	----	CAB	----	----	----	8126	UNCH	1.70B .05
1960	----	----	----	----	----	----	CAB	----	----	----	146	UNCH	1.75B .10
1970	----	----	----	----	----	----	CAB	----	----	----	76	UNCH	1.80B .10A
1975	----	----	----	----	----	----	CAB	----	----	----	2693	UNCH	1.85B .05
1980	----	----	----	----	----	----	CAB	----	----	----	121	UNCH	1.85B .20A
1985	----	----	----	----	----	----	CAB	----	----	----	57	UNCH	1.90B .10
1990	----	----	----	----	----	----	CAB	----	----	----	276	UNCH	1.90B .15
2000	----	----	----	----	----	----	CAB	----	----	----	205	UNCH	1.95B .05
2010	----	----	----	----	----	----	CAB	----	----	----	290	UNCH	2.00B .25
2020	----	----	----	----	----	----	CAB	----	----	----	76	UNCH	2.05B .05
2025	----	----	----	----	----	----	CAB	----	----	----	22	UNCH	2.10B .10
2030	----	----	----	----	----	----	CAB	----	----	----	16	UNCH	2.10B .15A
2040	----	----	----	----	----	----	CAB	----	----	----	173	UNCH	2.15B .05
2050	----	----	----	----	----	----	CAB	----	----	----	1451	UNCH	2.25B .05
2060	----	----	----	----	----	----	CAB	----	----	----	585	UNCH	2.30B .10
2070	----	----	----	----	----	----	CAB	----	----	----	271	UNCH	2.35B .10
2075	----	----	----	----	----	----	CAB	----	----	----	233	UNCH	2.40B .10A
2080	----	----	----	----	----	----	CAB	----	----	----	1333	UNCH	2.50B .05
2090	----	----	----	----	----	----	CAB	----	----	----	365	UNCH	2.55B .05
2095	----	----	----	----	----	----	CAB	----	----	----	85	UNCH	2.60B .10
2100	----	----	----	----	----	----	CAB	----	----	----	14919	UNCH	2.65B .05
2105	----	----	----	----	----	----	CAB	----	----	----	20	UNCH	2.70B .10
2110	----	----	----	----	----	----	CAB	----	----	----	559	UNCH	3.05B .15
2115	----	----	----	----	----	----	.05+	5	----	----	82	UNCH	2.80B .15A
2120	----	----	----	----	----	----	.05+	5	----	----	61	UNCH	2.85B .15A
2125	----	----	----	----	----	----	.05+	5	----	----	45870	UNCH	2.95B .05
2130	----	----	----	----	----	----	.05+	5	----	----	181	UNCH	3.00B .05
2135	----	----	----	----	----	----	.05+	5	----	----	70	UNCH	3.10B .15A
2140	----	----	----	----	----	----	.05	UNCH	----	----	181	UNCH	3.60B .05
2145	----	----	----	----	----	----	.05	UNCH	----	----	2074	UNCH	3.25B .05
2150	0.05	----	.05	.05	----	----	.05	UNCH	----	3	25649 +	3	3.80B .05
2155	----	----	----	----	----	----	.05	UNCH	----	----	191	UNCH	3.90B .10
2160	----	----	----	----	----	----	.05	UNCH	----	----	278	UNCH	3.55B .20A
2165	0.05	----	.05	*.05	----	----	.05	UNCH	----	1	180	UNCH	3.65B .05
2170	----	----	----	----	----	----	.05	UNCH	----	----	1072	UNCH	4.25B .10
2175	0.05	----	.05	.05	----	----	.05	UNCH	----	6	245 +	6	4.40B .05
2180	0.05	----	.05	*.05	----	----	.05	UNCH	----	1	115 -	1	4.50B .05
2185	----	----	----	----	----	----	.05	UNCH	----	----	1270	UNCH	4.15B .10
2190	0.05	----	.05	*.05	----	----	.05	UNCH	----	1	2814 -	1	4.80B .05
2195	----	----	----	----	----	----	.05	UNCH	----	----	11069	UNCH	4.45B .10
2200	0.05	----	.05	*.05	----	----	.05	UNCH	----	6	8982 +	6	5.00B .05
2205	----	----	----	----	----	----	.05	UNCH	----	----	544	UNCH	4.75B .10
2210	0.05	----	.05	*.05	----	----	.05	UNCH	----	31	384 +	11	5.25B .05
2215	----	----	----	----	----	----	.05	UNCH	----	----	599	UNCH	5.00B .10
2220	0.05	----	.05	*.05	----	----	.05	UNCH	----	1	1584 +	1	5.75B .05
2225	0.05	----	.05	*.05	----	----	.05	UNCH	----	41	1643 +	41	5.50B .05
2230	----	----	----	----	----	----	.05-	5	----	----	363	UNCH	5.50B .05A
2235	----	----	----	----	----	----	.05-	5	----	----	698	UNCH	5.75B .15
2240	----	----	----	----	----	----	.05-	5	----	----	5535	UNCH	6.00B .15
2245	----	----	----	----	----	----	.05-	5	----	----	1065	UNCH	6.25B .10
2250	0.10	----	.10	*.05	----	----	.05-	5	----	4508	7103 +	4310	6.50 .05
2255	----	----	----	----	----	----	.05-	5	----	----	2243	UNCH	7.25B .15A
2260	0.10	----	.10	.10	----	----	.05-	5	----	4	1890 +	3	7.00B .10
2265	----	----	----	----	----	----	.05-	5	----	----	1014	UNCH	7.50B .15
2270	0.10	----	.10	*.10	----	----	.05-	5	----	4	4104 -	4	7.75B .10
2275	0.10	----	.10	*.10	----	----	.05-	5	.000	1	483	UNCH	8.25B .10
2280	0.10	----	.10	*.10	----	----	.05-	5	.000	1	3444 -	1	8.50B .10
2285	----	----	----	----	----	----	.05-	5	.000	----	173	UNCH	9.00B .20A
2290	0.10	----	.10	*.10	----	----	.05-	5	.000	2	989	UNCH	9.25 .10
2295	----	----	----	----	----	----	.05-	5	.000	394	4396 +	394	9.75B .15
2300	0.10	----	.10	*.10	----	----	.05-	5	.000	1586	4931 +	583	10.50B .10
2305	0.10	----	.10	*.10	----	----	.05-	10	.000	30	624 -	23	10.50B .10
2310	0.10	----	.10	*.10	----	----	.05-	10	.000	1354	2238 +	1335	11.50B .10
2315	0.10	----	.10	*.10	----	----	.05-	10	.000	149	3584 +	113	11.50 .10
2320	0.10	----	.10	*.10	----	----	.05-	10	.000	15	2629 +	15	12.25B .10
2325	0.15	----	.15	*.10	----	----	.05-	15	.000	11	2648 +	10	13.00B .10
2330	0.10	----	.15	*.10	----	----	.05-	15	.001	127	1892 +	57	13.50B .10
2335	0.15	----	.15	*.15	----	----	.10-	10	.002	255	1128 +	225	14.00B .15
2340	0.15	----	.15	*.15	----	----	.10-	10	.002	213	2322 +	182	14.75B .15
2345	----	----	----	*.15A	----	----	.10-	15	.002	73	957 +	53	15.50B .15A
2350	0.20	----	.20	*.10	----	----	.10-	15	.002	294	6123 +	217	16.50B .10
2355	0.15	----	.15	*.15	----	----	.10-	15	.002	67	1085 +	42	17.25B .15
2360	0.15	----	.20	*.15	----	----	.10-	20	.002	80	5117 +	79	18.25B .15
2365	0.20	----	.20	*.20	----	----	.15-	15	.004	1915	3		



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PG48	BULLETIN #140@				E-MINI S&P 500 PUT OPTIONS				Mon, Jul 24, 2017				PG48		
2420	0.75	1.00	*.45	----	.55-	35	.029	----	196	3682 +	7	36.75B	.45		
2425	0.90	1.20	*.55	----	.65-	40	.037	----	471	1745 +	384	39.00B	.55		
2430	1.10	1.50	*.70	----	.75-	45	.046	----	702	2130 +	124	41.75B	.70		
2435	1.25	1.75B	*.80	----	.90-	55	.059	----	361	1227 +	124	44.50B	.80		
2440	1.65	2.25	*1.00	----	1.15-	60	.080	----	513	1877 +	76	47.50B	1.00		
2445	2.75	2.75	*1.25	----	1.50-	65	.110	----	674	1135 +	252	50.50B	1.25		
2450	2.55	3.65	*1.65	----	2.00-	70	.153	----	844	2206 +	261	54.00B	1.65		
2455	3.25	5.00	*2.20	----	2.70-	75	.214	----	1403	1507 +	474	57.75B	2.20		
2460	5.50	6.50	*3.10	----	3.75-	75	.299	----	1206	1549 +	356	61.50B	3.10		
2465	5.50	8.00B	*4.35A	----	5.20-	70	.410	----	1111	1816 +	500	65.50B	4.35A		
2470	7.50	10.75B	*6.25	----	7.20-	60	.543	----	606	1481 +	113	69.75B	6.25		
2475	10.75	13.50B	8.50	----	9.90-	30	.686	----	94	1292 +	4	74.25B	8.50		
2480	12.00	17.50B	12.00	----	13.30-	10	.813	----	2	348 -	1	78.75B	11.25		
2485	17.50	21.75B	16.00A	----	17.50+	40	.900	----	51	97 +	1	83.50B	14.50A		
2490	24.75	26.50B	20.50A	----	22.00+	60	.950	----	3	13	UNCH	88.25B	17.75A		
2495	27.00	31.25B	25.25A	----	26.80+	80	.974	----	14	5 -	1	93.00B	21.50A		
2500	----	34.75B	30.00A	----	31.70+	90	.985	----	----	6	UNCH	97.75B	25.75A		
2505	----	----	----	----	36.70+	100	.991	----	----	1	UNCH	102.75B	30.25A		
2510	----	----	----	----	41.60+	90	.996	----	----	2	UNCH	106.00B	34.75A		
2520	----	----	----	----	51.60+	100	.999	----	----	1	UNCH	104.00B	46.00A		
2540	----	----	----	----	71.60+	100	1.000	----	----	3	UNCH	123.75B	90.25A		
2545	----	----	----	----	76.60+	100	1.000	----	----	1	UNCH	127.50B	95.00A		
2550	----	----	----	----	81.60+	100	1.000	----	----	2	UNCH	123.75B	100.00A		
2560	----	----	----	----	91.60+	100	1.000	----	----	1	UNCH	131.50B	109.75A		
TOTAL									26626	271148 +	4692				
AUG17	EOW4	MINI	S&P	P	(FUTURES SETT.	.00)									
1640	----	----	----	----	----	----	.10	UNCH	.000	----	15	UNCH	.15	.15	
1650	----	----	----	----	----	----	.10-	5	.000	----	30	UNCH	.15	.05	
1670	----	----	----	----	----	----	*.10A	5	.000	----	25	UNCH	.15	.10A	
1700	----	----	----	----	----	----	----	5	.000	----	20	UNCH	.15	.15	
1720	----	----	----	----	----	----	----	5	.001	----	20	UNCH	.15	.15	
1730	----	----	----	----	----	----	----	5	.001	----	10	UNCH	.15	.15	
1740	----	----	----	----	----	----	----	5	.001	----	16	UNCH	.15	.15	
1750	----	----	----	----	----	----	----	5	.001	----	6	UNCH	.15	.15	
1820	0.20	#.20	*.20	----	----	----	.20+	NEW	.002	----	40	40 +	40	.20	
1850	0.25	#.25	*.20A	----	----	----	.25	UNCH	.002	----	1	1 +	1	.25	.20A
1860	----	----	.25A	----	----	----	.25-	5	.002	----	40	UNCH	.25	.25	
1870	----	----	*.25A	----	----	----	.25-	5	.002	----	2	UNCH	.40	.25A	
1900	----	----	----	----	----	----	.25-	5	.002	----	130	UNCH	.45	.40	
1930	----	----	----	----	----	----	.30-	5	.003	----	1	UNCH	.45	.45	
1940	----	----	----	----	----	----	.30-	5	.003	----	1	UNCH	.45	.45	
1950	----	----	*.35A	----	----	----	.30-	10	.003	----	11	UNCH	.45	.35A	
1960	----	----	*.35A	----	----	----	.30-	10	.003	----	23	UNCH	.60	.35A	
1990	0.40	.40	*.40	----	----	----	.35-	10	.004	----	8	+	2	.70	.40
2000	----	----	*.45A	----	----	----	.40-	10	.005	----	22	UNCH	.75	.45A	
2020	0.45	#.45	*.45	----	----	----	.40+	NEW	.005	----	10	10 +	10	.45	.45
2025	0.50	#.50	*.45	----	----	----	.45+	NEW	.006	----	15	15 +	15	.50	.45
2030	----	----	*.50A	----	----	----	.45-	10	.006	----	10	UNCH	.70B	.50A	
2040	----	----	*.55A	----	----	----	.50-	10	.006	----	6	UNCH	.95B	.55A	
2050	0.55	.55	*.55	----	----	----	.50-	10	.006	----	10	22 +	10	1.00B	.55
2060	0.60	.60	*.60	----	----	----	.55+	NEW	.007	----	6	6 +	6	1.05B	.60
2070	0.60	.60	*.60	----	----	----	.60-	10	.008	----	8	8 +	7	1.10B	.60
2080	----	----	*.65A	----	----	----	.65-	10	.009	----	4	UNCH	1.15B	.65A	
2085	0.70	.70	*.65A	----	----	----	.65+	NEW	.009	----	300	300 +	300	1.20B	.65A
2090	----	----	*.70A	----	----	----	.65-	10	.009	----	4	UNCH	1.25B	.70A	
2095	0.70	.70	*.70	----	----	----	.70-	10	.010	----	13	13 +	9	1.25B	.70
2100	----	----	*.70A	----	----	----	.70-	10	.010	----	40	UNCH	1.30B	.70A	
2120	----	----	*.80A	----	----	----	.80-	10	.011	----	82	UNCH	1.45B	.80A	
2125	----	----	*.80A	----	----	----	.85-	10	.012	----	13	UNCH	1.50B	.80A	
2130	----	----	*.85A	----	----	----	.90-	10	.013	----	42	UNCH	1.55B	.85A	
2135	0.90	.90	*.85A	----	----	----	.90+	NEW	.013	----	13	13 +	13	1.55B	.85A
2140	----	----	*.90A	----	----	----	.95-	10	.014	----	1	UNCH	1.60B	.90A	
2145	0.95	.95	*.90A	----	----	----	.95-	10	.014	----	100	122 +	100	1.65B	.90A
2150	0.95	1.00B	*.95	----	----	----	1.00-	10	.015	----	4	85 +	4	1.70B	.95
2155	1.05	1.05	*.95A	----	----	----	1.00-	15	.015	----	90	94 +	90	1.80	.95A
2160	1.05	1.10	*1.00A	----	----	----	1.05+	NEW	.016	----	213	213 +	213	1.80B	1.00A
2165	----	----	*1.05A	----	----	----	1.05-	15	.016	----	30	UNCH	1.85B	1.05A	
2170	1.10	1.15	*1.05A	----	----	----	1.10+	NEW	.017	----	113	113 +	113	1.90B	1.05A
2175	1.15	1.15	*1.10A	----	----	----	1.10-	20	.017	----	40	121 +	40	2.00B	1.10A
2180	1.20	1.20	*1.05	----	----	----	1.15+	NEW	.018	----	53	52 +	52	2.05B	1.05
2185	----	----	*1.15A	----	----	----	1.15-	20	.019	----	311	UNCH	2.10B	1.15A	
2190	1.30	1.30	*1.20A	----	----	----	1.20-	20	.019	----	260	1353 +	245	2.15B	1.20A
2195	1.25	1.30B	*1.25	----	----	----	1.25-	20	.020	----	1	25 +	1	2.25B	1.25
2200	1.35	*1.30A	*1.30A	----	----	----	1.25-	25	.021	----	1	190	UNCH	2.30B	1.30A
2205	----	----	*1.30A	----	----	----	1.30-	25	.022	----	11	UNCH	2.35B	1.30A	
2210	1.45	*1.35A	*1.35A	----	----	----	1.35+	NEW	.023	----	1	1 +	1	2.45B	1.35A
2215	----	----	*1.40A	----	----	----	1.40-	25	.024	----	35	UNCH	2.50B	1.40A	
2220	1.60	*1.45A	*1.45A	----	----	----	1.45-	25	.025	----	212	212 +	209	2.60B	1.45A
2225	----	----	*1.50A	----	----	----	1.50-	25	.026	----	11	UNCH	2.65B	1.50A	
2230	----	----	*1.55A	----	----	----	1.55-	25	.027	----	2	UNCH	2.75B	1.55A	
2235	----	----	*1.60A	----	----	----	1.60-	25	.028	----	11	UNCH	2.85B	1.60A	
2240	1.80	1.80	*1.65A	----	----	----	1.70-	25	.030	----	9	10 +	9	2.95B	1.65A
2245	1.85	*1.70A	*1.70A	----	----	----	1.75+	NEW	.031	----	9	9 +	9	3.05B	1.70A
2250	1.90	*1.80	*1.80	----	----	----	1.80-	25	.032	----	217	813 +	208	3.15B	1.80
2255	----	----	*1.85A	----	----	----	1.90-	25	.034	----	10	UNCH	3.25B	1.85A	
2260	2.15	2.15	*1.90A	----	----	----	1.95-	25	.036	----	3	218 +	3	3.35B	1.90A
2265	----	----	*1.95A	----	----	----	2.05+	NEW	.038	----	6	6 +	6	3.50B	1.95A
2270	----	----	*2.05A	----	----	----	2.10-	25	.039	----	11	UNCH	3.60B	2.05A	
2275	2.45	*2.10A	*2.10A	----	----	----	2.20-	25	.041	----	1	34 +	1	3.75B	2.10A
2280	2.35	*2.20A	*2.20A	----	----	----	2.25-	30	.043	----	3	16 +	3	3.90B	2.20A
2285	----	2.70B	*2.25A	----	----	----	2.30-	35	.044	----	1	UNCH	4.05B	2.25A	
2290	----	2.80B	*2.35A	----	----	----	2.40-	35	.047	----	87	UNCH	4.20B	2.35A	
2295	----	2.90B	*2.45A	----	----	----	2.50-	35	.049	----	35	UNCH	4.35B	2.45A	
2300	3.00	3.05	*2.55A	----	----	----	2.60-	40	.051	----	144	599 +	140	4.55B	2.55A
2305	----	3.15B	*2.65A	----	----	----	2.65-	45	.053	----	172	UNCH	4.75B	2.65A	
2310	3.30	3.30	*2.75A	----	----	----	2.80-	45	.057	----	3	52 +	1	4.95B	2.75A
2315	2.80	3.45B	*2.80	----	----	----	2.90-	45	.059	----	14	1409 +	14	5.00B	2.80
2320	3.60	3.65B	*2.95A	----	----	----	3.05-	45	.063	----	205	288 +	127	5.25B	2.95A
2325	3.55	3.80B	*3.10A	----	----	----	3.15-	50	.066	----	193	420 +	127	5.50B	3.10A
2330	----	4.00B	*3.25A	----	----	----	3.30-	55	.070	----	144	UNCH	5.75B	3.25A	
2335	3.50	4.20B	*3.35A	----	----	----	3.45-	55	.074	----	11	12 +	6	6.25B	3.35A
2340	4.15	4.40B	*3.50A	----	----	----	3.65-	50	.078	----	4	128	UNCH	6.50B	3.50A
2345	----	4.60B	*3.70A	----	----	----	3.80-	55	.083	----	283</				



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E-MINI S&P 500 PUT OPTIONS

Mon, Jul 24, 2017 PG48

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 strike prices from 100 to 2160.

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2165	2.55	2.70B	*2.45A	----	2.50-	15	.032	----	16	1115	-	16	45.25B	2.45A	
2170	2.70	2.75	*2.55	----	2.60-	10	.034	----	91	2703	+	35	217.00B	2.55	
2175	----	2.85B	*2.60A	----	2.65-	15	.035	----	120	4055	-	100	219.75B	2.60A	
2180	2.85	2.85	*2.65A	----	2.70-	20	.036	----	2	3571	UNCH		222.75B	2.65A	
2185	2.90	2.90	*2.75A	----	2.80-	20	.037	----	10	2417	+	5	49.25B	2.75A	
2190	3.10	3.10	*2.80A	----	2.85-	25	.038	----	7	7045	+	2	229.00B	2.80A	
2195	3.05	3.15B	*2.90A	----	2.95-	25	.040	----	13	804	+	7	51.25B	2.90A	
2200	3.35	3.35	*2.95	----	3.05-	25	.041	----	1014	14884	-	50	234.75B	2.95	
2205	3.30	3.30	*3.05	----	3.10-	25	.042	----	36	706	+	33	53.50B	3.05	
2210	3.65	3.65	*3.15A	----	3.20-	25	.044	----	42	1783	+	37	241.25B	3.15A	
2215	3.30	3.60B	*3.20A	----	3.30-	25	.046	----	31	1028	+	16	55.75B	3.20A	
2220	3.80	3.80	*3.30A	----	3.40-	25	.047	----	227	3789	+	96	247.75B	3.30A	
2225	3.90	3.90	*3.40A	----	3.50-	25	.049	----	286	7859	+	152	251.00B	3.40A	
2230	3.80	3.95B	*3.50A	----	3.60-	30	.051	----	102	2594	UNCH		254.50B	3.50A	
2235	3.85	4.10B	*3.60A	----	3.70-	30	.053	----	49	1533	+	32	60.75B	3.60A	
2240	4.10	4.20B	*3.75A	----	3.80-	35	.054	----	219	3228	+	34	261.50B	3.75A	
2245	4.45	4.45	*3.85A	----	3.95-	30	.057	----	251	1143	-	241	63.50B	3.85A	
2250	4.55	4.60	*4.00A	----	4.05-	35	.059	----	2326	12223	-	1467	268.50B	4.00A	
2255	4.90	4.90	*4.10A	----	4.20-	35	.061	----	5	2920	-	4	66.25B	4.10A	
2260	4.60	4.85B	*4.25A	----	4.35-	35	.064	----	72	2003	+	71	275.75B	4.25A	
2265	----	5.00B	*4.40A	----	4.50-	35	.066	----	----	3655	UNCH		69.25B	4.40A	
2270	4.90	5.25B	*4.50	----	4.65-	35	.069	----	130	1172	+	19	281.75B	4.50	
2275	5.25	5.25	*4.70	----	4.80-	40	.072	----	28	6510	+	9	283.25B	4.70	
2280	5.50	5.50	*4.80	----	5.00-	40	.075	----	65	3860	+	36	287.00B	4.80	
2285	5.50	5.75B	*5.00	----	5.20-	40	.078	----	106	3327	+	44	75.75B	5.00	
2290	----	6.00B	*5.25A	----	5.40-	30	.082	----	----	12607	UNCH		295.00B	5.25A	
2295	----	6.25B	*5.50A	----	5.70-	20	.086	----	----	383	UNCH		79.00B	5.50A	
2300	6.50	6.75	*5.50	----	5.90-	20	.090	----	553	20014	+	296	302.75B	5.50	
2305	6.50	6.75B	*6.00A	----	6.10-	30	.094	----	1	3465	UNCH		82.50B	6.00A	
2310	7.00	7.00	*6.25	----	6.30-	30	.097	----	63	12692	+	17	311.00B	6.25	
2315	7.25	7.25	*6.50A	----	6.60-	40	.102	----	2	934	+	1	86.25B	6.50A	
2320	7.25	7.75B	*6.75	----	6.80-	50	.106	----	193	1286	+	185	319.25B	6.75	
2325	7.50	8.00	*7.00	----	7.00-	60	.111	----	59	2774	UNCH		323.50B	7.00	
2330	8.25	8.25	*7.00	----	7.30-	70	.116	----	195	1505	-	110	327.50B	7.00	
2335	8.00	8.75B	*7.50A	----	7.60-	70	.121	----	5	745	-	4	94.25B	7.50A	
2340	8.75	9.00	*7.75	----	7.90-	70	.127	----	217	12765	-	79	336.25B	7.75	
2345	9.25	9.50B	*8.00A	----	8.20-	80	.133	----	54	1381	+	31	98.50B	8.00A	
2350	10.00	10.00	*8.50	----	8.60-	70	.140	----	1909	19654	-	702	344.75B	8.50	
2355	10.00	10.25B	*8.75	----	9.00-	70	.147	----	155	1045	+	135	103.00B	8.75	
2360	10.25	10.75B	*9.25A	----	9.40-	70	.154	----	41	2573	+	28	353.50B	9.25A	
2365	10.00	11.25B	*9.75	----	9.80-	70	.161	----	115	3676	+	12	107.75B	9.75	
2370	11.25	11.75B	*10.00	----	10.30-	70	.170	----	109	3496	-	27	362.50B	10.00	
2375	12.25	12.25	*10.50A	----	10.90-	60	.180	----	120	6953	+	60	367.00B	10.50A	
2380	12.50	12.75B	*11.00A	----	11.40-	60	.189	----	116	1673	+	77	370.50B	11.00A	
2385	13.25	13.50B	*11.50A	----	11.90-	70	.198	----	148	2498	+	101	117.75B	11.50A	
2390	13.50	14.00B	*12.25A	----	12.50-	70	.209	----	30	1981	+	15	365.75B	12.25A	
2395	14.50	14.75B	*12.75	----	13.10-	70	.220	----	88	1475	+	47	123.25B	12.75	
2400	15.00	15.75	*13.25	----	13.80-	70	.232	----	3149	16680	-	1561	362.50B	13.25	
2405	15.50	16.25B	*14.00	----	14.40-	90	.244	----	55	965	-	23	129.00B	14.00	
2410	15.75	17.00B	*14.75	----	15.20-	80	.258	----	397	1970	+	82	346.50B	14.75	
2415	17.50	18.00B	*15.50A	----	16.00-	80	.272	----	98	1203	+	48	134.75B	15.50A	
2420	18.25	19.00B	*16.25A	----	16.90-	70	.288	----	315	2059	+	31	343.00B	16.25A	
2425	20.00	20.00	*17.25	----	17.80-	70	.304	----	355	2255	UNCH		342.00B	17.25	
2430	19.25	21.00B	*18.25	----	18.80-	70	.321	----	522	1948	+	344	340.25B	18.25	
2435	21.25	22.25B	*19.25	----	19.90-	70	.339	----	28	1377	UNCH		147.25B	19.25	
2440	23.00	23.50B	*20.25A	----	21.00-	70	.359	----	215	1784	+	51	347.00B	20.25A	
2445	24.25	24.75B	*21.50A	----	22.30-	70	.380	----	407	887	+	254	154.00B	21.50A	
2450	24.25	26.50	*22.75	----	23.60-	70	.402	----	668	4193	+	155	351.25B	22.75	
2455	26.75	27.75B	24.25A	----	25.00-	80	.425	----	35	2728	+	23	161.00B	24.25	
2460	28.25	29.50B	25.75	----	26.50-	80	.449	----	99	2017	+	58	331.25B	25.75A	
2465	30.25	31.25B	27.50	----	28.10-	90	.475	----	128	796	+	21	168.25B	27.25A	
2470	32.25	33.25B	29.00	----	29.90-	90	.503	----	382	1582	+	270	335.75B	29.00A	
2475	34.25	35.25B	31.00A	----	31.90-	80	.531	----	93	310	+	89	329.00B	30.50	
2480	36.25	37.50B	33.25	----	34.10-	70	.560	----	63	135	+	25	331.50B	32.75A	
2485	37.50	40.00B	35.50	----	36.50-	60	.591	----	114	331	+	77	183.25B	34.75A	
2490	39.25	42.25B	38.00A	----	39.00-	50	.622	----	55	203	+	35	326.75B	37.00A	
2495	----	45.00B	40.75A	----	41.80-	40	.652	----	----	40	UNCH		191.25B	39.50A	
2500	46.50	48.00B	43.75A	----	44.70-	30	.683	----	3	398	-	1	382.25B	42.00A	
2505	----	51.50B	46.75A	----	47.90-	10	.713	----	----	13	UNCH		199.50B	44.75A	
2510	----	54.75B	50.00A	----	51.20-	10	.742	----	----	303	UNCH		391.50B	47.75A	
2515	----	58.50B	53.25A	----	54.70	UNCH	.772	----	----	6	UNCH		208.00B	50.75A	
2520	----	62.25B	57.00A	----	58.40+	10	.799	----	----	380	UNCH		309.25B	54.25A	
2525	----	66.25B	60.75A	----	62.20+	10	.824	----	2	14	UNCH		313.75B	57.75A	
2530	----	70.25B	64.75A	----	66.20+	30	.847	----	----	477	UNCH		317.25B	61.50A	
2535	----	74.75B	69.00A	----	70.40+	40	.868	----	----	7	UNCH		225.00B	65.25A	
2540	----	79.00B	73.25A	----	74.80+	60	.886	----	----	261	UNCH		317.50B	69.25A	
2545	----	83.50B	77.75A	----	79.20+	60	.902	----	----	5	UNCH		234.00B	73.50A	
2550	----	88.25B	82.25A	----	83.80+	70	.916	----	----	34	UNCH		323.75B	77.75A	
2555	----	92.75B	86.75A	----	88.40+	70	.928	----	----	3	UNCH		243.25B	82.25A	
2560	----	97.50B	91.50A	----	93.10+	70	.937	----	----	1	UNCH		332.75B	86.75A	
2565	----	102.25B	96.25A	----	97.90+	80	.945	----	----	5	UNCH		252.50B	91.50A	
2570	----	107.00B	101.00A	----	102.70+	80	.951	----	----	7	UNCH		333.25B	96.00A	
2575	----	112.00B	106.00A	----	107.60+	90	.957	----	----	5	UNCH		337.75B	100.75A	
2580	----	117.00B	110.75A	----	112.50+	90	.961	----	----	5	UNCH		335.50B	105.50A	
2590	----	126.75B	120.50A	----	122.30+	90	.968	----	----	9	UNCH		343.00B	115.25A	
2595	----	130.75B	----	----	127.20+	90	.971	----	----	4	UNCH		268.50B	120.25A	
2600	----	134.50B	----	----	132.10+	90	.973	----	----	10	UNCH		291.25B	125.00A	
2605	----	----	----	----	137.10+	90	.976	----	----	3	UNCH		278.25B	130.00A	
2610	----	----	----	----	142.00+	90	.978	----	----	1	UNCH		300.75B	136.50A	
2615	----	----	----	----	147.00+	90	.980	----	----	1	UNCH		242.25B	165.25A	
2620	----	----	----	----	151.90+	90	.981	----	----	1	UNCH		308.00B	170.25A	
2625	----	----	----	----	156.90+	90	.983	----	----	2	UNCH		303.75B	175.25A	
2630	----	----	----	----	161.90+	90	.983	----	----	1	UNCH		303.50B	180.00A	
2635	----	----	----	----	166.90+	100	.985	----	----	4	UNCH		217.25B	193.25A	



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1470	0.90	.90	.90	----	.85-	15	.004	----	13	511 +	13	15.75B	.90	
1475	----	----	*.90A	----	.90-	10	.005	----	----	499	UNCH	16.00B	.90A	
1480	0.95	.95	*.90	----	.90-	10	.005	----	64	444 -	64	16.25B	.90	
1490	----	----	.95A	----	.95-	10	.005	----	195	493 +	114	16.75B	.95A	
1500	----	----	1.00A	----	.95-	10	.005	----	----	811	UNCH	17.25B	1.00	
1510	----	----	*1.00A	----	1.00-	10	.005	----	----	458	UNCH	18.00B	1.00A	
1520	----	----	*1.05A	----	1.05-	10	.006	----	----	673	UNCH	18.50B	1.05A	
1525	----	----	*1.05A	----	1.05-	10	.006	----	----	459	UNCH	18.75B	1.05A	
1530	----	----	*1.10A	----	1.05-	10	.006	----	----	480	UNCH	19.00B	1.10A	
1540	----	----	*1.15A	----	1.10-	10	.006	----	----	791	UNCH	19.75B	1.15A	
1550	----	----	*1.20A	----	1.15-	10	.006	----	----	1286	UNCH	20.50B	1.20A	
1560	1.20	1.20	*1.20	----	1.20-	10	.007	----	50	916 +	50	21.00B	1.20	
1570	1.30	1.30	*1.25A	----	1.20-	15	.007	----	20	1858	UNCH	21.75B	1.25A	
1575	1.30	1.30	*1.30	----	1.25-	10	.007	----	53	570 +	53	22.00B	1.30	
1580	----	----	*1.30A	----	1.25-	15	.007	----	----	217	UNCH	22.50B	1.30A	
1590	----	----	*1.35A	----	1.30-	15	.007	----	----	637	UNCH	23.25B	1.35A	
1600	1.45	1.45	*1.35	----	1.35-	15	.008	----	23	3306	UNCH	24.00B	1.35	
1610	----	----	*1.45A	----	1.40-	15	.008	----	----	312	UNCH	24.75B	1.45A	
1620	----	----	*1.50A	----	1.50-	10	.009	----	----	219	UNCH	25.50B	1.50A	
1625	----	----	*1.55A	----	1.50-	15	.009	----	----	1803	UNCH	26.00B	1.55A	
1630	----	----	*1.60A	----	1.55-	10	.009	----	----	173	UNCH	26.25B	1.60A	
1640	----	----	*1.65A	----	1.60-	15	.009	----	----	157	UNCH	27.25B	1.65A	
1650	----	----	*1.70A	----	1.65-	15	.010	----	----	1316	UNCH	28.00B	1.70A	
1660	----	----	*1.75A	----	1.75-	10	.010	----	----	280	UNCH	29.00B	1.75A	
1670	----	----	*1.80A	----	1.80-	10	.011	----	----	398	UNCH	29.75B	1.80A	
1675	1.85	1.85	*1.85	----	1.80-	15	.011	----	6	428 -	2	30.25B	1.85	
1680	----	----	*1.90A	----	1.85-	15	.011	----	----	175	UNCH	30.75B	1.90A	
1690	----	----	*1.95A	----	1.90-	15	.011	----	----	547	UNCH	31.75B	1.95A	
1700	2.00	2.00	*1.95	----	2.00-	15	.012	----	25	4485 +	20	32.75	1.95	
1710	----	----	*2.10A	----	2.05-	15	.012	----	----	1016	UNCH	33.75B	2.10A	
1720	----	----	*2.15A	----	2.15-	15	.013	----	----	228	UNCH	35.00B	2.15A	
1725	----	----	*2.20A	----	2.20-	10	.013	----	----	365	UNCH	35.50B	2.20A	
1730	----	----	*2.25A	----	2.25-	10	.014	----	----	194	UNCH	36.00B	2.25A	
1740	----	----	*2.30A	----	2.35-	10	.014	----	----	294	UNCH	37.25B	2.30A	
1750	2.50	2.50	*2.40A	----	2.40-	15	.015	----	22	2003 +	22	38.25B	2.40A	
1760	----	----	*2.50A	----	2.50-	15	.016	----	----	126	UNCH	39.50B	2.50A	
1770	----	----	*2.60A	----	2.60-	15	.016	----	----	364	UNCH	40.75B	2.60A	
1775	----	----	*2.65A	----	2.60-	20	.016	----	----	485	UNCH	41.25B	2.65A	
1780	2.80	2.80	*2.70A	----	2.65-	20	.017	----	14	477 +	14	42.00B	2.70A	
1790	----	----	*2.80A	----	2.80-	20	.018	----	----	304	UNCH	43.25B	2.80A	
1800	----	----	*2.90A	----	2.90-	20	.018	----	----	4979	UNCH	44.50B	2.90A	
1810	----	----	*3.00A	----	3.00-	25	.019	----	----	281	UNCH	46.00B	3.00A	
1820	----	----	*3.15A	----	3.15-	20	.020	----	----	656	UNCH	47.25B	3.15A	
1825	----	----	*3.20A	----	3.20-	20	.021	----	----	3474	UNCH	48.00B	3.20A	
1830	----	----	*3.25A	----	3.25-	20	.021	----	----	709	UNCH	48.75B	3.25A	
1840	----	----	*3.40A	----	3.40-	20	.022	----	----	693	UNCH	50.25B	3.40A	
1850	----	----	*3.55A	----	3.55-	25	.023	----	----	2615	UNCH	51.75B	3.55A	
1860	----	----	*3.70A	----	3.70-	25	.024	----	----	246	UNCH	53.25B	3.70A	
1870	----	----	*3.85A	----	3.85-	25	.025	----	----	630	UNCH	54.75B	3.85A	
1875	----	----	*3.90A	----	3.90-	30	.026	----	----	674	UNCH	55.50B	3.90A	
1880	4.00	4.00	*4.00	----	4.00-	30	.027	----	22	285	UNCH	56.50B	4.00	
1890	----	----	*4.15A	----	4.15-	30	.028	----	----	231	UNCH	58.00B	4.15A	
1900	----	----	*4.30A	----	4.35-	30	.029	----	65	14085 -	65	59.75B	4.30A	
1910	4.70	4.70	*4.50A	----	4.50-	30	.030	----	8	560 +	8	61.50B	4.50A	
1920	----	----	*4.70A	----	4.70-	30	.032	----	----	134	UNCH	63.25B	4.70A	
1925	----	----	*4.80A	----	4.80-	30	.033	----	----	924	UNCH	64.25B	4.80A	
1930	----	----	*4.90A	----	4.90-	30	.033	----	----	497	UNCH	65.25B	4.90A	
1940	----	----	*5.25A	----	5.10-	30	.035	----	----	254	UNCH	67.00B	5.25A	
1950	----	----	5.50A	----	5.40-	30	.037	----	----	2550	UNCH	69.00B	5.50	
1960	----	----	*5.75A	----	5.60-	40	.038	----	----	473	UNCH	71.00B	5.75A	
1970	----	----	*6.00A	----	5.90-	40	.041	----	----	406	UNCH	73.00B	6.00A	
1975	----	----	*6.00A	----	6.00-	40	.041	----	250	1714	UNCH	74.00B	6.00A	
1980	----	----	*6.25A	----	6.10-	50	.042	----	----	186	UNCH	75.25B	6.25A	
1990	----	----	*6.50A	----	6.40-	40	.044	----	----	945	UNCH	77.25B	6.50A	
2000	7.00	7.25B	*6.75A	----	6.60-	40	.046	----	1	15104	UNCH	79.50B	6.75A	
2010	----	----	*7.00A	----	6.90-	40	.048	----	----	736	UNCH	81.75B	7.00A	
2020	7.75	7.75	*7.25	----	7.20-	40	.051	----	4	626 +	1	84.00B	7.25	
2025	7.50	7.50	*7.50	----	7.30-	50	.052	----	220	3463 +	153	85.25B	7.50	
2030	----	----	*7.50A	----	7.50-	50	.053	----	----	535	UNCH	86.50B	7.50A	
2040	----	----	*8.00A	----	7.90-	50	.056	----	----	7370	UNCH	89.00B	8.00A	
2050	8.75	8.75	*8.25	----	8.20-	60	.059	----	12	5290 +	1	91.50B	8.25	
2060	----	----	*8.75A	----	8.60-	60	.062	----	225	723 +	6	94.00B	8.75A	
2070	----	----	*9.00A	----	9.00-	60	.065	----	----	612	UNCH	96.75B	9.00A	
2075	----	----	*9.25A	----	9.20-	60	.066	----	----	1402	UNCH	98.00B	9.25A	
2080	----	----	*9.50A	----	9.40-	60	.068	----	----	298	UNCH	99.50B	9.50A	
2090	----	----	*10.00A	----	9.90-	50	.071	----	----	714	UNCH	102.25B	10.00A	
2100	10.75	10.75	*10.25A	----	10.30-	60	.075	----	466	23322 -	239	105.00B	10.25A	
2110	11.25	11.50B	*10.75A	----	10.70-	60	.078	----	43	660 +	43	108.00B	10.75A	
2120	11.75	11.75	*11.25A	----	11.20-	70	.082	----	44	1289	UNCH	111.00B	11.25A	
2125	----	----	*11.50A	----	11.50-	70	.084	----	238	6402 +	2	112.50B	11.50A	
2130	----	----	*11.75A	----	11.80-	70	.087	----	----	3736	UNCH	114.00B	11.75A	
2140	----	13.25B	*12.50A	----	12.40-	70	.091	----	----	818	UNCH	117.25B	12.50A	
2150	13.25	13.25	*13.00A	----	13.00-	70	.096	----	1556	7429 -	58	120.50B	13.00A	
2160	----	14.50B	*13.50A	----	13.60-	70	.101	----	----	429	UNCH	123.75B	13.50A	
2165	----	14.75B	*14.00A	----	14.00-	60	.103	----	----	56	UNCH	24.75B	14.00A	
2170	15.25	15.25	*14.25A	----	14.30-	60	.106	----	1	1367 +	1	127.25B	14.25A	
2175	15.50	15.50	*14.50	----	14.60-	60	.108	----	360	4667 +	58	129.00B	14.50	
2180	----	15.75B	*15.00A	----	15.00-	60	.111	----	----	584	UNCH	130.75B	15.00A	
2185	----	16.25B	*15.25A	----	15.30-	70	.114	----	----	154	UNCH	32.50B	15.25A	
2190	----	----	*15.50A	----	15.70-	80	.117	----	----	573	UNCH	134.25B	15.50A	
2195	----	----	*16.00A	----	16.10-	80	.120	----	----	366	UNCH	33.75B	16.00A	
2200	17.00	17.50B	*16.25A	----	16.50-	80	.123	----	502	11892 -	423	138.00B	16.25A	
2205	----	----	*16.75A	----	16.90-	80	.126	----	----	330	UNCH	35.25B	16.75A	
2210	17.75	18.25B	*17.00A	----	17.30-	80	.129	----	47	563 +	5	141.75B	17.00A	
2215	18.00	18.75B	*17.50A	----	17.70-	80	.133	----	63	184 +	63	36.75B	17.50A	
2220	18.50	18.50	*18.00A	----	18.10-	80	.136	----	40	1619	UNCH	145.75B	18.00A	
2225	19.25	19.50B	*18.25A	----	18.50-	80	.139	----	44	2075 +	20	147.75B	18.25A	
2230	19.50	20.00B	*18.75A	----	18.90-	90	.143	----	20	655 +	20	149.75B	18.75A	
2235	----	20.50B	*19.25A	----	19.40-	90	.146	----	----	49	UNCH	40.00B	19.25A	
2240	----	21.00B	*19.75A	----	19.80-	100	.150	----	----	1568	UNCH	154.00B	19.75A	
2245	20.00	21.50B	*20.00	----	20.30-	100	.154	----	26	404	UNCH	41.50B	20.00	
2250	22.00	22.25B	*20.75A	----	20.70-	110	.157	----	347	3743 +	294	158.00B	20.75A	
2255	22.00	22.75B	*21.00	----	21.20-	120	.161	----	57	85 +	29	43.50B	21.00	
2260	22.75	23.25B	*2											



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FINAL

PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS										Mon, Jul 24, 2017	PG48
2410	----	49.50B	*46.25A	----	46.90-	100	.362	----	----	270	UNCH	243.00B	46.25A
2415	----	50.75B	*47.50A	----	48.20-	100	.372	----	----	40	UNCH	87.75B	47.50A
2420	50.75	52.25B	*49.00A	----	49.60-	100	.382	----	2	388 +	2	249.50B	49.00A
2425	----	53.50B	*50.25A	----	51.00-	100	.392	----	----	1201	UNCH	253.00B	50.25A
2430	----	55.00B	*51.75A	----	52.40-	100	.402	----	----	463	UNCH	256.25B	51.75A
2435	----	56.50B	*53.00A	----	53.80-	100	.413	----	----	335	UNCH	96.00B	53.00A
2440	----	58.00B	*54.50A	----	55.30-	100	.424	----	----	701	UNCH	263.25B	54.50A
2445	----	59.75B	*56.00A	----	56.90-	100	.435	----	----	95	UNCH	100.50B	56.00A
2450	60.50	61.50B	*57.75A	----	58.50-	100	.447	----	273	1746 +	219	270.25B	57.75A
2455	----	63.00B	59.50A	----	60.20-	90	.459	----	----	358	UNCH	105.25B	59.50A
2460	----	64.75B	*61.00A	----	61.90-	100	.471	----	----	88	UNCH	277.50B	61.00A
2465	64.25	66.50B	63.00A	----	63.70-	100	.483	----	17	19 +	16	110.00B	63.00A
2470	----	68.50B	64.75A	----	65.50-	100	.496	----	2	104	UNCH	285.00B	64.75A
2475	69.75	70.25B	66.75A	----	67.40-	100	.509	----	533	574 +	406	288.75B	66.75A
2480	72.25	72.50B	68.50A	----	69.40-	100	.522	----	3	62	UNCH	292.50B	68.50A
2485	----	74.50B	70.75A	----	71.50-	100	.535	----	----	99	UNCH	120.75B	70.75A
2490	----	76.75B	72.75A	----	73.70-	90	.549	----	----	164	UNCH	298.75B	72.75A
2495	78.25	79.00B	75.00A	----	75.90-	90	.563	----	15	73 +	15	126.50B	74.75A
2500	----	81.25B	77.25A	----	78.30-	80	.577	----	----	103	UNCH	306.75B	77.00A
2510	----	86.00B	83.00A	----	83.10-	80	.605	----	----	63	UNCH	314.50B	81.50A
2520	----	91.25B	87.25A	----	88.30-	60	.634	----	----	10	UNCH	322.75B	86.50A
2525	----	94.00B	90.00A	----	91.00-	50	.649	----	----	18	UNCH	326.75B	89.00A
2530	----	96.75B	92.75A	----	93.70-	50	.663	----	----	19	UNCH	331.00B	91.75A
2540	----	102.75B	98.50A	----	99.50-	40	.693	----	----	22	UNCH	339.25B	97.25A
2550	----	109.25B	104.50A	----	105.70-	30	.722	----	----	87	UNCH	348.00B	103.00A
2555	112.50	112.50	107.75A	----	109.00+	NEW	.737	----	1	1 +	1	167.25B	106.00A
2560	----	115.75B	111.00A	----	112.30-	20	.751	----	----	9	UNCH	356.50B	109.25A
2570	----	122.75B	118.00A	----	119.30+	10	.778	----	----	14	UNCH	365.25B	115.75A
2575	----	126.50B	121.50A	----	122.90+	10	.792	----	----	226	UNCH	369.75B	119.25A
2580	----	130.25B	125.25A	----	126.60+	20	.805	----	----	5	UNCH	374.25B	122.75A
2590	----	138.00B	133.00A	----	134.30+	30	.830	----	----	2	UNCH	383.00B	130.00A
2600	----	146.25B	140.75A	----	142.30+	40	.852	----	----	6	UNCH	388.75B	137.50A
2610	----	154.50B	149.25A	----	150.60+	40	.874	----	----	4	UNCH	382.50B	145.50A
2620	----	163.25B	157.75A	----	159.30+	50	.891	----	----	5	UNCH	387.75B	154.00A
2625	----	167.75B	162.25A	----	163.70+	50	.900	----	----	4	UNCH	385.50B	158.25A
2630	----	172.25B	166.75A	----	168.20+	60	.907	----	----	4	UNCH	388.50B	162.50A
2640	----	181.50B	175.75A	----	177.30+	70	.921	----	----	9	UNCH	375.75B	171.50A
2650	----	190.75B	185.00A	----	186.50+	60	.933	----	----	17	UNCH	385.00B	180.50A
2660	----	200.25B	194.50A	----	195.90+	60	.943	----	----	6	UNCH	393.50B	189.75A
2670	----	209.75B	204.00A	----	205.50+	70	.950	----	----	2	UNCH	400.75B	199.00A
2675	----	214.75B	208.75A	----	210.30+	70	.953	----	----	2	UNCH	370.00B	203.75A
2680	----	219.50B	213.75A	----	215.20+	80	.957	----	----	3	UNCH	374.75B	208.75A
2690	----	229.25B	223.50A	----	224.90+	70	.962	----	----	2	UNCH	384.25B	218.25A
2700	----	239.00B	233.25A	----	234.70+	80	.966	----	----	601	UNCH	389.75B	228.00A
2775	----	----	----	----	309.00+	90	.981	----	----	10	UNCH	----	390.50A
2900	----	----	----	----	433.70+	90	.993	----	----	1	UNCH	----	----
3150	----	----	----	----	683.70+	90	.998	----	----	1	UNCH	908.50	903.00
3375	----	----	----	----	908.70+	90	.998	----	----	1	UNCH	1126.00	1120.00
TOTAL										8433	245989 +	1789	
MAR18	EMINI S&P PUT												
950	----	----	----	----	.30-	5	.001	----	----	1317	UNCH	1.45B	.40A
975	----	----	----	----	.35-	5	.001	----	----	418	UNCH	1.60B	.45A
1000	----	----	*.35A	----	.40-	5	.001	----	----	393	UNCH	1.80B	.35A
1025	----	----	*.40A	----	.45-	5	.001	----	----	195	UNCH	1.95B	.40A
1050	----	----	.50A	----	.50-	5	.001	----	----	381	UNCH	2.15	.50
1075	----	----	.55A	----	.55-	5	.002	----	----	173	UNCH	1.85B	.55
1100	----	----	.60A	----	.60-	5	.002	----	----	277	UNCH	2.60B	.60
1125	----	----	.65A	----	.65-	5	.002	----	----	270	UNCH	2.65B	.65
1150	----	----	*.70A	----	.70-	10	.002	----	----	944	UNCH	3.20B	.70A
1175	----	----	.80A	----	.75-	10	.003	----	----	200	UNCH	3.50B	.80
1200	0.85	.85	*.85	----	.80-	10	.003	----	50	238 +	50	3.80B	.85
1225	0.95	.95	.95	----	.90-	10	.003	----	50	262 +	50	4.20B	.95
1250	----	----	----	----	1.00-	5	.004	----	----	210	UNCH	4.60B	1.05
1275	1.20	1.20	1.15A	----	1.10-	5	.004	----	10	413 -	10	5.00	1.15
1300	----	----	----	----	1.20-	5	.005	----	----	488	UNCH	5.50B	1.20
1325	1.35	1.35	*1.35	----	1.30-	5	.005	----	50	314 +	50	6.00B	1.35
1350	----	----	----	----	1.45-	5	.006	----	----	182	UNCH	6.50	1.50A
1375	----	----	1.60A	----	1.60-	5	.007	----	----	119	UNCH	7.00	1.60
1400	----	----	----	----	1.75-	5	.007	----	----	271	UNCH	7.75	1.80A
1425	----	----	----	----	1.90-	5	.008	----	----	407	UNCH	8.50B	2.00
1450	----	----	----	----	2.10-	5	.009	----	----	1012	UNCH	9.25	2.00
1475	2.35	2.35	2.35	----	2.30-	5	.010	----	2	478	UNCH	10.00B	2.30
1500	2.50	2.50	*2.50	----	2.50-	5	.011	----	10	689	UNCH	11.25	2.50
1525	----	----	*2.75A	----	2.75-	5	.012	----	----	78	UNCH	12.00	2.75A
1550	----	----	3.05A	----	3.00-	10	.014	----	----	1569	UNCH	13.00B	3.05
1560	----	----	*3.10A	----	3.10-	10	.014	----	----	376	UNCH	13.50B	3.10A
1570	----	----	*3.25A	----	3.20-	10	.015	----	----	530	UNCH	14.00B	3.25A
1575	----	----	*3.30A	----	3.25-	10	.015	----	----	61	UNCH	14.25B	3.30A
1580	3.40	3.40	*3.25	----	3.30-	10	.015	----	8	78 -	4	14.50B	3.25
1590	3.55	3.55	*3.40	----	3.45-	10	.016	----	354	702 -	10	15.00B	3.40
1600	3.55	3.55	*3.55	----	3.55-	10	.017	----	15	429 +	15	15.50B	3.55
1610	3.80	3.80	3.75A	----	3.70-	10	.017	----	4	14 -	4	16.00B	3.75
1620	3.80	3.80	*3.80	----	3.85-	10	.018	----	4	92	UNCH	16.50B	3.80
1625	----	----	3.95A	----	3.90-	15	.018	----	----	184	UNCH	16.75B	3.95
1630	4.10	4.10	*4.00A	----	4.00-	10	.019	----	4	229	UNCH	17.00B	4.00A
1640	----	----	*4.20A	----	4.15-	10	.020	----	----	249	UNCH	17.50B	4.20A
1650	----	----	*4.35A	----	4.30-	15	.020	----	----	1536	UNCH	18.25B	4.35A
1660	4.70	4.70	*4.50A	----	4.45-	15	.021	----	4	208	UNCH	18.75B	4.50A
1670	4.55	4.55	*4.55	----	4.60-	15	.022	----	4	254 +	4	19.50B	4.55
1675	4.90	4.90	*4.65	----	4.70-	15	.023	----	5	254	UNCH	19.75B	4.65
1690	4.95	4.95	*4.95	----	4.95-	15	.024	----	20	157 +	18	20.75B	4.95
1700	5.25	5.25	*5.25	----	5.10-	20	.025	----	1	366	UNCH	21.25B	5.25
1710	----	----	----	----	5.30-	30	.026	----	----	216	UNCH	22.00B	5.50
1720	----	----	----	----	5.50-	30	.027	----	----	177	UNCH	22.75B	6.00A
1725	----	----	*5.75A	----	5.60-	30	.027	----	----	256	UNCH	23.25B	5.75A
1730	----	----	----	----	5.70-	30	.028	----	----	439	UNCH	23.50B	6.25A
1740	----	----	----	----	5.90-	40	.029	----	----	138	UNCH	24.25B	6.50A
1750	----	----	*6.25A	----	6.20-	30	.030	----	----	335	UNCH	25.00B	6.25A
1760	----	----	*6.50A	----	6.40-	30	.031	----	----	7	UNCH	25.75B	6.50A
1770	----	----	*6.75A	----	6.70-	20	.033	----	----	3	UNCH	26.75B	6.75A
1775	----	----	----	----	6.80-	20	.034	----	----	4	UNCH	27.00B	7.25A
1780	----	----	----	----	6.90-	20	.034	----	----	61	UNCH	27.50B	7.50A
1790	----	----	*7.25A	----	7.20-	20	.036	----	----	53	UNCH	28.50B	7.25A
1800	----	----	*7.50A	----	7.50-	20	.037	----	----	1798	UNCH	29.25B	7.50A
1810	----	----	----	----	7.80-	20	.039	----					



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PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS								Mon, Jul 24, 2017				PG48
2050	----	19.75B	*19.00A	----	19.00-	60	.099	----	1	1019 +	1	63.50B	19.00A	
2060	----	20.50B	*19.75A	----	19.70-	60	.103	----	----	105	UNCH	65.25B	19.75A	
2070	----	21.25B	*20.50A	----	20.40-	70	.107	----	----	248	UNCH	67.25B	20.50A	
2075	----	21.75B	*20.75A	----	20.80-	60	.109	----	----	6	UNCH	68.25B	20.75A	
2080	----	22.00B	*21.25A	----	21.20-	60	.111	----	----	200	UNCH	69.25B	21.25A	
2090	----	23.00B	*22.00A	----	22.00-	70	.115	----	----	40	UNCH	71.50B	22.00A	
2100	----	23.75B	*22.75A	----	22.80-	70	.120	----	----	628	UNCH	73.50B	22.75A	
2110	----	24.75B	*23.75A	----	23.70-	70	.125	----	----	378	UNCH	75.75B	23.75A	
2120	----	25.50B	*24.50A	----	24.60-	70	.130	----	----	131	UNCH	78.00B	24.50A	
2125	----	26.00B	*25.00A	----	25.00-	80	.132	----	----	4	UNCH	79.25B	25.00A	
2130	----	26.50B	*25.50A	----	25.50-	80	.135	----	----	66	UNCH	80.25B	25.50A	
2140	27.50	27.50	*26.50A	----	26.50-	80	.140	----	1	3 -	1	82.75B	26.50A	
2150	----	28.50B	*27.50A	----	27.50-	80	.145	----	140	947 +	40	85.00B	27.50A	
2160	----	29.75B	*28.50A	----	28.50-	90	.151	----	----	33	UNCH	87.50B	28.50A	
2170	30.00	30.75B	*29.50A	----	29.60-	90	.157	----	15	205	UNCH	90.25B	29.50A	
2175	----	31.50B	*30.00A	----	30.20-	90	.160	----	----	4024	UNCH	91.50B	30.00A	
2180	----	32.00B	*30.75A	----	30.80-	90	.163	----	----	484	UNCH	92.75B	30.75A	
2190	----	33.25B	*31.75A	----	32.00-	90	.170	----	----	190	UNCH	95.50B	31.75A	
2200	33.00	34.50B	*33.00	----	33.20-	90	.176	----	200	2444 +	108	98.25B	33.00	
2210	----	35.75B	*34.25A	----	34.40-	90	.183	----	----	558	UNCH	101.25B	34.25A	
2220	----	37.00B	*35.50A	----	35.70-	90	.190	----	----	131	UNCH	104.25B	35.50A	
2225	----	37.75B	*36.25A	----	36.40-	90	.194	----	----	22	UNCH	105.75B	36.25A	
2230	----	38.50B	*36.75A	----	37.10-	90	.198	----	----	201	UNCH	107.25B	36.75A	
2240	----	40.00B	*38.25A	----	38.50-	90	.205	----	----	65	UNCH	110.50B	38.25A	
2250	----	41.50B	*39.75A	----	39.90-	100	.213	----	100	593 +	100	113.75B	39.75A	
2260	----	43.00B	*41.25A	----	41.40-	110	.222	----	----	1493	UNCH	117.00B	41.25A	
2270	----	44.75B	*42.75A	----	42.90-	120	.230	----	----	214	UNCH	120.50B	42.75A	
2275	----	45.50B	*43.75A	----	43.80-	110	.235	----	----	34	UNCH	122.25B	43.75A	
2280	----	46.50B	*44.50A	----	44.60-	120	.239	----	----	18	UNCH	124.00B	44.50A	
2290	----	48.25B	*46.25A	----	46.40-	120	.249	----	----	204	UNCH	127.75B	46.25A	
2300	49.25	50.00B	*48.00A	----	48.20-	120	.258	----	60	3073 -	60	131.25B	48.00A	
2310	----	52.00B	*49.75A	----	50.10-	130	.268	----	----	73	UNCH	135.25B	49.75A	
2320	----	54.00B	*51.75A	----	52.10-	120	.279	----	----	254	UNCH	139.25B	51.75A	
2325	----	55.00B	*52.75A	----	53.10-	120	.284	----	2	1130	UNCH	141.25B	52.75A	
2330	----	56.00B	*53.75A	----	54.10-	120	.290	----	----	60	UNCH	143.25B	53.75A	
2340	----	58.25B	*55.75A	----	56.20-	110	.301	----	----	242	UNCH	147.25B	55.75A	
2350	----	60.50B	*58.00A	----	58.40-	110	.313	----	----	847	UNCH	151.75B	58.00A	
2360	----	63.00B	*60.25A	----	60.70-	110	.325	----	----	124	UNCH	156.00B	60.25A	
2370	----	65.50B	*62.75A	----	63.20-	110	.337	----	----	531	UNCH	160.50B	62.75A	
2375	----	66.75B	*63.75A	----	64.40-	110	.344	----	----	972	UNCH	163.00B	63.75A	
2380	----	68.00B	*65.00A	----	65.70-	110	.350	----	----	51	UNCH	165.00B	65.00A	
2390	----	70.50B	*67.75A	----	68.20-	110	.364	----	----	57	UNCH	170.00B	67.75A	
2400	----	73.50B	*70.25A	----	70.90-	110	.378	----	2	1647 -	2	174.75B	70.25A	
2410	----	76.25B	*73.00A	----	73.80-	100	.392	----	----	104	UNCH	179.75B	73.00A	
2420	77.75	79.25B	*76.00A	----	76.80-	100	.407	----	2	365 -	2	185.00B	76.00A	
2425	80.25	80.75B	*77.50A	----	78.30-	100	.415	----	4	287 +	4	187.75B	77.50A	
2430	----	82.50B	*79.00A	----	79.80-	110	.423	----	----	66	UNCH	190.50B	79.00A	
2440	----	85.75B	*82.25A	----	83.00-	120	.439	----	----	305	UNCH	196.00B	82.25A	
2450	89.00	89.25B	*85.75A	----	86.40-	120	.456	----	11	118 +	11	201.50B	85.50A	
2460	89.25	92.75B	*89.25	----	90.00-	100	.473	----	1	53 +	1	207.25B	89.00A	
2470	----	96.50B	*93.00A	----	93.80-	80	.491	----	----	22	UNCH	213.25B	93.00A	
2475	97.50	98.50B	*94.75A	----	95.70-	80	.500	----	1	405 +	1	216.25B	94.50A	
2480	100.25	100.50B	*96.75A	----	97.70-	80	.509	----	1	109 +	1	219.25B	96.50A	
2490	103.75	104.50B	*100.75A	----	101.80-	90	.527	----	16	36 +	16	225.50B	100.50A	
2500	----	108.75B	*105.00A	----	106.10-	100	.546	----	----	52	UNCH	232.00B	104.50A	
2510	----	113.25B	*109.50A	----	110.60-	100	.566	----	----	2	UNCH	238.75B	109.25A	
2520	----	118.00B	*114.00A	----	115.30-	90	.586	----	----	16	UNCH	245.50B	113.75A	
2525	----	120.50B	*116.50A	----	117.70-	90	.596	----	----	12	UNCH	248.75B	116.00A	
2530	----	122.75B	*119.00A	----	120.20-	80	.606	----	----	7	UNCH	252.25B	118.50A	
2540	----	128.00B	*124.25A	----	125.30-	70	.626	----	----	7	UNCH	259.50B	123.75A	
2550	----	133.25B	*129.50A	----	130.70-	50	.647	----	----	42	UNCH	266.75B	129.00A	
2560	----	139.00B	*135.25A	----	136.30-	40	.668	----	----	34	UNCH	274.00B	134.25A	
2570	----	145.00B	*141.00A	----	142.20-	30	.688	----	----	6	UNCH	281.75B	140.00A	
2575	----	148.00B	*144.00A	----	145.20-	30	.699	----	----	26	UNCH	284.75B	143.00A	
2580	----	151.25B	*147.00A	----	148.30-	20	.709	----	----	15	UNCH	288.50B	145.75A	
2590	----	157.75B	*153.50A	----	154.60-	30	.730	----	----	10	UNCH	296.50B	152.00A	
2600	----	164.50B	*160.00A	----	161.30-	20	.750	----	----	938	UNCH	304.50B	158.50A	
2625	----	182.50B	*177.75A	----	179.10-	10	.798	----	----	25	UNCH	325.25B	175.50A	
2630	----	186.25B	*181.50A	----	182.90	UNCH	.806	----	----	2	UNCH	329.50B	179.25A	
2640	----	194.00B	*189.00A	----	190.60+	10	.824	----	----	1	UNCH	338.25B	186.50A	
2650	----	202.00B	*197.00A	----	198.50+	10	.840	----	----	400	UNCH	346.75B	194.25A	
2675	----	223.00B	*217.75A	----	219.30+	40	.877	----	----	1	UNCH	369.25B	214.50A	
2680	----	227.25B	*222.00A	----	223.60+	50	.884	----	----	1	UNCH	373.75B	218.75A	
2690	----	236.00B	*230.75A	----	232.30+	40	.896	----	----	1	UNCH	382.75B	227.25A	
2710	----	254.00B	*248.75A	----	250.30+	50	.917	----	----	1	UNCH	401.50B	244.75A	
2720	----	263.25B	*258.00A	----	259.50+	50	.926	----	----	1	UNCH	410.75B	253.75A	
2725	----	268.00B	*262.50A	----	264.10+	50	.929	----	----	1	UNCH	415.50B	258.50A	
2730	----	272.75B	*267.25A	----	268.80+	50	.934	----	----	1	UNCH	420.25B	263.00A	
2740	----	282.25B	*276.75A	----	278.30+	70	.940	----	----	1	UNCH	418.25B	272.25A	
2750	----	291.75B	*286.25A	----	287.80+	70	.947	----	----	26	UNCH	427.75B	281.75A	
2760	----	301.25B	*295.75A	----	297.40+	80	.952	----	----	1	UNCH	437.50B	291.25A	
2770	----	311.00B	*305.50A	----	307.00+	80	.956	----	----	1	UNCH	441.25B	300.75A	
2775	----	315.75B	*310.25A	----	311.90+	80	.958	----	----	1	UNCH	431.75B	305.50A	
2800	----	338.75B	----	----	336.30+	80	.967	----	----	1	UNCH	456.25B	329.75A	
3000	----	----	----	----	535.40+	90	.991	----	----	1	UNCH	----	599.25A	
TOTAL									1433	63370 +	617			
JUN18	EMINI S&P PUT													
950	----	----	----	----	.60-	5	.002	----	----	5	UNCH	1.05	.80A	
975	----	----	----	----	.70-	5	.002	----	----	5	UNCH	1.20B	.90A	
1000	----	----	----	----	.75-	5	.002	----	----	14	UNCH	1.20	.85A	
1025	----	----	----	----	.85-	5	.003	----	----	148	UNCH	1.30B	1.05A	
1050	----	----	----	----	.95-	5	.003	----	----	15	UNCH	1.45B	1.15A	
1075	----	----	*1.05A	----	1.05-	5	.003	----	----	91	UNCH	1.75B	1.05A	
1100	1.15	1.15	*1.15	----	1.15-	5	.004	----	50	156 +	50	1.85	1.15	
1125	----	----	*1.25A	----	1.25-	5	.004	----	----	100	UNCH	2.00B	1.25A	
1150	1.40	1.40	*1.35A	----	1.35+	NEW	.004	----	50	50 +	50	2.25B	1.35A	
1200	1.65	1.65	*1.65	----	1.65-	5	.006	----	50	137 +	50	2.75B	1.55	
1225	----	----	*1.80A	----	1.80-	5	.006	----	----	10	UNCH	3.05B	1.80A	
1250	----	----	----	----	1.95-	5	.007	----	----	1	UNCH	3.35B	2.00	
1275	----	----	----	----	2.15-	5	.008	----	----	2	UNCH	3.70B	2.50A	
1300	----	----												



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PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS										Mon, Jul 24, 2017	PG48
1790	----	----	*13.25A	----	13.10-	30	.053	----	----	51	UNCH	22.00B	13.25A
1800	13.75	14.00	13.75	----	13.50-	40	.055	----	2	489 +	2	22.75B	13.50
1810	14.25	14.25	*14.00A	----	14.00-	40	.057	----	3	107	UNCH	23.25B	14.00A
1820	----	----	*14.50A	----	14.40-	50	.059	----	----	10	UNCH	24.25B	14.50A
1825	----	----	*14.75A	----	14.70-	50	.060	----	----	32	UNCH	24.50B	14.75A
1830	----	----	*15.00A	----	14.90-	50	.061	----	----	200	UNCH	25.00B	15.00A
1840	----	----	*15.50A	----	15.40-	50	.063	----	----	59	UNCH	25.75B	15.50A
1850	----	----	16.25A	----	16.00-	50	.066	----	----	201	UNCH	26.50B	16.25A
1860	16.75	16.75	*16.75	----	16.50-	60	.068	----	3	179	UNCH	27.50B	16.75
1870	----	17.75B	*17.25A	----	17.10-	50	.071	----	----	3	UNCH	28.25B	17.25A
1880	----	----	*17.75A	----	17.70-	50	.073	----	----	55	UNCH	29.25B	17.75A
1890	----	19.00B	*18.50A	----	18.30-	50	.076	----	----	137	UNCH	30.00B	18.50A
1900	19.00	19.00	*19.00	----	18.90-	50	.078	----	3	157	UNCH	31.00B	19.00
1910	----	20.25B	*19.75A	----	19.50-	60	.081	----	----	425	UNCH	32.00B	19.75A
1920	----	21.00B	*20.25A	----	20.20-	50	.084	----	----	1	UNCH	33.25B	20.25A
1925	----	21.25B	*20.75A	----	20.60-	50	.085	----	----	3	UNCH	33.75B	20.75A
1930	----	----	*21.00A	----	20.90-	50	.087	----	----	56	UNCH	34.25B	21.00A
1940	----	22.25B	*21.75A	----	21.60-	50	.090	----	----	53	UNCH	35.25B	21.75A
1950	----	----	*22.50A	----	22.40-	50	.093	----	----	444	UNCH	36.50B	22.50A
1960	----	24.00B	*23.25A	----	23.10-	60	.096	----	----	30	UNCH	37.50B	23.25A
1970	----	24.75B	*24.00A	----	23.90-	60	.099	----	----	1	UNCH	38.75B	24.00A
1975	----	25.25B	*24.25A	----	24.30-	60	.101	----	----	400	UNCH	39.25B	24.25A
1980	----	25.50B	*24.75A	----	24.70-	60	.103	----	----	32	UNCH	40.00B	24.75A
1990	----	26.50B	*25.50A	----	25.50-	60	.106	----	----	252	UNCH	41.25B	25.50A
2000	27.00	27.25B	*26.50A	----	26.40-	60	.110	----	1	44	UNCH	42.50B	26.50A
2010	----	28.25B	*27.25A	----	27.30-	60	.114	----	----	34	UNCH	43.75B	27.25A
2020	----	29.25B	*28.25A	----	28.20-	70	.118	----	----	10	UNCH	45.00B	28.25A
2025	----	29.75B	*28.75A	----	28.60-	70	.119	----	----	61	UNCH	45.75B	28.75A
2030	----	30.00B	*29.00A	----	29.10-	70	.121	----	----	5	UNCH	46.25B	29.00A
2040	----	31.00B	*30.00A	----	30.10-	70	.126	----	----	1	UNCH	47.75B	30.00A
2050	----	32.25B	*31.00A	----	31.00-	80	.130	----	----	26	UNCH	49.25B	31.00A
2060	----	33.25B	*32.00A	----	32.00-	80	.134	----	----	34	UNCH	50.75B	32.00A
2070	----	34.25B	*33.00A	----	33.10-	80	.139	----	----	2	UNCH	52.25B	33.00A
2080	----	35.50B	*34.25A	----	34.10-	90	.143	----	----	11	UNCH	53.75B	34.25A
2100	----	37.75B	*36.50A	----	36.40-	90	.153	----	----	404	UNCH	57.00B	36.50A
2110	----	39.00B	*37.75A	----	37.60-	100	.158	----	----	30	UNCH	58.75B	37.75A
2120	----	40.25B	*39.00A	----	38.80-	100	.163	----	----	28	UNCH	60.50B	39.00A
2125	----	41.00B	*39.50A	----	39.40-	110	.166	----	----	373	UNCH	61.25B	39.50A
2140	----	43.00B	*41.50A	----	41.50-	100	.174	----	----	25	UNCH	64.00B	41.50A
2150	----	44.25B	*42.75A	----	42.90-	90	.180	----	200	300 +	62	66.00B	42.75A
2160	----	45.75B	*44.25A	----	44.30-	90	.186	----	----	2	UNCH	68.00B	44.25A
2175	----	48.00B	*46.50A	----	46.50-	100	.195	----	----	10	UNCH	71.00B	46.50A
2180	----	48.75B	*47.25A	----	47.30-	100	.198	----	----	20	UNCH	72.00B	47.25A
2190	----	50.50B	*48.75A	----	48.80-	100	.205	----	----	33	UNCH	74.25B	48.75A
2200	51.25	52.00B	*50.25A	----	50.40-	110	.211	----	351	891 +	283	76.25B	50.25A
2225	----	56.25B	*54.50A	----	54.60-	110	.229	----	----	10	UNCH	82.00B	54.50A
2230	----	57.25B	*55.25A	----	55.50-	110	.233	----	----	22	UNCH	83.25B	55.25A
2240	58.25	59.25B	*57.25A	----	57.30-	110	.240	----	1	368 +	1	85.75B	57.25A
2250	----	61.00B	*59.00A	----	59.20-	110	.248	----	----	211	UNCH	88.25B	59.00A
2260	----	63.00B	*61.00A	----	61.10-	110	.256	----	----	9	UNCH	90.75B	61.00A
2270	----	65.00B	*63.00A	----	63.10-	120	.264	----	----	251	UNCH	93.50B	63.00A
2275	----	66.00B	*64.00A	----	64.10-	120	.268	----	----	2509	UNCH	94.75B	64.00A
2280	----	67.25B	*65.00A	----	65.10-	120	.272	----	----	25	UNCH	96.00B	65.00A
2290	----	69.25B	*67.00A	----	67.20-	130	.281	----	----	34	UNCH	99.00B	67.00A
2300	70.50	71.50B	*69.25A	----	69.30-	140	.290	----	172	437 +	163	101.75B	69.25A
2310	73.00	73.75B	*71.50A	----	71.60-	140	.299	----	10	135 +	10	104.75B	71.50A
2325	----	77.50B	*75.50A	----	75.10-	140	.313	----	----	9	UNCH	109.25B	75.50A
2330	78.25	78.75B	*76.25A	----	76.30-	150	.318	----	10	20 +	10	111.00B	76.25A
2340	80.25	81.25B	78.75A	----	78.80+	NEW	.328	----	9	9 +	9	114.00B	78.75A
2350	83.00	83.75B	81.25A	----	81.40-	140	.338	----	10	134 +	10	117.50B	81.25A
2360	----	86.50B	*83.75A	----	84.00-	150	.349	----	----	5	UNCH	120.75B	83.75A
2370	----	89.25B	*86.50A	----	86.80-	140	.360	----	----	7	UNCH	124.25B	86.50A
2375	----	90.75B	*88.00A	----	88.20-	130	.365	----	----	3	UNCH	126.00B	88.00A
2380	91.25	92.25B	*89.25A	----	89.60-	140	.371	----	10	11 +	10	128.00B	89.25A
2390	----	95.25B	*92.25A	----	92.60-	120	.382	----	----	7	UNCH	131.50B	92.25A
2400	96.75	98.25B	*95.25A	----	95.50-	140	.394	----	450	778 +	100	135.50B	95.25A
2410	----	101.25B	*98.25A	----	98.50-	150	.406	----	----	19	UNCH	139.25B	98.25A
2420	----	104.75B	101.50A	----	101.60-	170	.418	----	----	57	UNCH	143.25B	101.50A
2425	----	106.25B	103.00A	----	103.20-	170	.424	----	----	229	UNCH	145.50B	103.00A
2430	----	108.00B	*104.75A	----	104.90-	170	.431	----	----	210	UNCH	147.50B	104.75A
2440	----	111.50B	108.00A	----	108.40-	160	.444	----	----	160	UNCH	151.75B	108.00A
2450	113.75	115.00B	111.50A	----	112.10-	140	.457	----	300	323 +	162	156.00B	111.50A
2460	----	118.75B	*115.25A	----	116.00-	110	.470	----	----	117	UNCH	160.50B	115.25A
2470	----	122.50B	*119.00A	----	119.90-	80	.484	----	----	76	UNCH	165.25B	119.00A
2475	----	124.50B	121.00A	----	122.00-	60	.491	----	----	40	UNCH	167.50B	120.75A
2480	----	126.50B	123.00A	----	124.00-	60	.498	----	----	24	UNCH	170.00B	123.00A
2490	----	130.75B	127.00A	----	128.10-	50	.513	----	----	9	UNCH	174.75B	127.00A
2500	----	135.00B	131.00A	----	132.30-	50	.527	----	----	37	UNCH	180.00B	131.00A
2510	----	139.00B	135.50A	----	136.60-	60	.542	----	----	43	UNCH	184.25B	135.50A
2520	----	143.50B	140.00A	----	141.10-	60	.557	----	----	53	UNCH	189.75B	140.00A
2525	----	146.00B	142.25A	----	143.40-	70	.565	----	----	48	UNCH	192.50B	142.25A
2530	----	148.25B	144.75A	----	145.80-	60	.573	----	----	27	UNCH	195.25B	144.50A
2540	----	153.25B	149.50A	----	150.60-	60	.589	----	----	22	UNCH	201.00B	149.25A
2550	----	158.00B	154.50A	----	155.60-	60	.604	----	----	20	UNCH	206.75B	154.25A
2560	----	163.25B	159.75A	----	160.80-	50	.620	----	----	11	UNCH	212.75B	159.50A
2570	----	168.75B	165.00A	----	166.20-	50	.636	----	----	6	UNCH	219.00B	164.75A
2575	----	171.50B	167.75A	----	169.00-	40	.644	----	----	3	UNCH	222.25B	167.50A
2590	----	180.25B	176.25A	----	177.50-	40	.668	----	----	3	UNCH	232.00B	175.75A
2650	----	219.00B	216.00A	----	216.00	UNCH	.763	----	----	5	UNCH	274.75B	213.25A
2660	----	226.25B	221.75A	----	223.10	UNCH	.777	----	----	6	UNCH	282.50B	220.25A
2670	----	233.50B	229.00A	----	230.40+	10	.792	----	----	2	UNCH	290.25B	227.25A
2675	----	237.50B	232.75A	----	234.10+	10	.799	----	----	3	UNCH	294.25B	231.00A
2680	----	241.25B	236.50A	----	237.90+	20	.806	----	----	4	UNCH	298.25B	234.50A
2690	----	249.00B	244.25A	----	245.50+	10	.820	----	----	37	UNCH	306.50B	242.00A
2700	----	257.00B	252.00A	----	253.40+	20	.833	----	----	2	UNCH	314.75B	249.75A
2725	----	277.50B	272.50A	----	273.90+	30	.862	----	----	1	UNCH	336.25B	269.75A
2740	----	290.25B	285.25A	----	286.70+	40	.878	----	----	100	UNCH	349.25B	282.25A
2750	----	299.00B	294.00A	----	295.30+	40	.889	----	----	25	UNCH	358.25B	290.75A
2760	----	308.00B	302.75A	----	30								



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PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS								Mon, Jul 24, 2017	PG48			
1570	----	----	----	----	----	CAB	----	----	----	4797	UNCH	4.50B	.05	
1575	----	----	----	----	----	CAB	----	----	----	202	UNCH	4.65B	.15	
1580	----	----	----	----	----	CAB	----	----	----	208	UNCH	4.75B	.15	
1590	----	----	----	----	----	CAB	----	----	----	54	UNCH	4.95B	.10	
1600	----	----	----	----	----	CAB	----	----	----	106	UNCH	5.00B	.05	
1610	----	----	----	----	----	CAB	----	----	----	13	UNCH	4.80B	.15A	
1620	----	----	----	----	----	CAB	----	----	----	15	UNCH	5.00B	.10A	
1625	----	----	----	----	----	CAB	----	----	----	130	UNCH	5.00B	.10A	
1630	0.05	.05	*.05	----	----	CAB	----	----	1	31 +	1	5.25B	.05	
1640	----	----	----	----	----	CAB	----	----	----	72	UNCH	5.50B	.10A	
1650	----	----	----	----	----	CAB	----	----	----	226	UNCH	6.25B	.10A	
1660	----	----	----	----	----	CAB	----	----	----	125	UNCH	5.75B	.15A	
1670	----	----	----	----	----	CAB	----	----	----	295	UNCH	4.50B	.10A	
1675	----	----	----	----	----	CAB	----	----	----	200	UNCH	7.00B	.05A	
1680	----	----	----	----	----	CAB	----	----	----	42	UNCH	6.50B	.05	
1690	----	----	----	----	----	CAB	----	----	----	65	UNCH	7.50B	.05	
1700	----	----	----	----	----	CAB	----	----	----	1055	UNCH	7.75B	.05	
1710	----	----	----	----	----	CAB	----	----	----	758	UNCH	7.25B	.10	
1720	----	----	----	----	----	CAB	----	----	----	151	UNCH	7.50B	.10	
1725	----	----	----	----	----	CAB	----	----	----	275	UNCH	7.75B	.05	
1730	----	----	----	----	----	CAB	----	----	----	125	UNCH	8.75B	.15	
1740	----	----	----	----	----	CAB	----	----	----	241	UNCH	8.25B	.05	
1750	----	----	----	----	----	CAB	----	----	----	1355	UNCH	9.50B	.05	
1760	----	----	----	----	----	CAB	----	----	----	490	UNCH	10.00B	.10A	
1770	----	----	----	----	----	CAB	----	----	----	337	UNCH	10.25B	.10A	
1775	0.05	.05	*.05	----	----	CAB	----	----	2	1825 -	2	10.50B	.05	
1780	----	----	----	----	----	CAB	----	----	----	67	UNCH	10.75B	.10A	
1790	----	----	----	----	----	CAB	----	----	----	203	UNCH	11.25B	.05	
1800	0.05	.05	.05	----	----	CAB	----	----	2	2657	UNCH	11.75B	.05	
1810	----	----	----	----	----	CAB	----	----	----	1151	UNCH	12.25B	.10	
1820	----	----	----	----	----	CAB	----	----	----	4747	UNCH	12.75B	.10	
1825	----	----	----	----	----	CAB	----	----	----	2140	UNCH	13.00B	.10	
1830	----	----	----	----	----	CAB	----	----	----	1447	UNCH	13.25B	.05	
1840	----	----	----	----	----	CAB	----	----	----	1047	UNCH	13.75B	.05	
1850	----	----	----	----	----	CAB	----	----	----	1500	UNCH	14.50B	.05	
1860	----	----	----	----	----	CAB	----	----	----	243	UNCH	15.00B	.15	
1870	----	----	----	----	----	CAB	----	----	----	8596	UNCH	15.75B	.10	
1875	----	----	----	----	----	CAB	----	----	----	168	UNCH	16.00B	.15	
1880	----	----	----	----	----	CAB	----	----	----	4009	UNCH	16.50B	.05	
1890	----	----	----	----	----	CAB	----	----	----	228	UNCH	17.25B	.05	
1900	----	----	----	----	----	CAB	----	----	----	1623	UNCH	17.75B	.05	
1910	----	----	----	----	----	CAB	----	----	----	748	UNCH	18.75B	.25A	
1920	----	----	----	----	----	CAB	----	----	----	1201	UNCH	19.50B	.05	
1925	----	----	----	----	----	CAB	----	----	----	7404	UNCH	19.75B	.10	
1930	----	----	----	----	----	CAB	----	----	----	3030	UNCH	20.25B	.20A	
1940	----	----	----	----	----	CAB	----	----	----	414	UNCH	21.25B	.05	
1950	----	----	----	----	----	CAB	----	----	----	1290	UNCH	22.25B	.15	
1960	----	----	----	----	----	CAB	----	----	----	255	UNCH	23.00B	.05	
1970	----	----	----	----	----	CAB	----	----	----	669	UNCH	24.00B	.15	
1975	0.05	.05	*.05	----	----	CAB	----	----	6	493	UNCH	24.75B	.05	
1980	----	----	----	----	----	CAB	----	----	----	5152	UNCH	25.25B	.10	
1985	----	----	----	----	----	CAB	----	----	----	170	UNCH	1.90B	.10A	
1990	----	----	----	----	----	CAB	----	----	----	396	UNCH	26.25B	.10A	
2000	----	----	----	----	----	CAB	----	----	----	3960	UNCH	27.50B	.05	
2010	----	----	----	----	----	CAB	----	----	----	952	UNCH	28.50B	.05	
2020	----	----	----	----	----	CAB	----	----	----	325	UNCH	29.75B	.15	
2025	----	----	----	----	----	CAB	----	----	----	887	UNCH	30.50B	.05	
2030	----	----	----	----	----	CAB	----	----	----	490	UNCH	31.25B	.10	
2040	----	----	----	----	----		.05	UNCH	----	1628	UNCH	32.50B	.10A	
2050	----	----	----	----	----		.05	UNCH	----	4686	UNCH	34.00B	.05	
2060	----	----	----	----	----		.05	UNCH	----	645	UNCH	35.50B	.05	
2070	----	----	----	----	----		.05	UNCH	----	1812	UNCH	37.00B	.10	
2075	----	----	----	----	----		.05	UNCH	----	16737	UNCH	37.75B	.05	
2080	----	----	----	----	----		.05	UNCH	----	2653	UNCH	38.50B	.25A	
2085	----	----	----	----	----		.05	UNCH	----	35	UNCH	.10	.10	
2090	----	----	----	----	----		.05	UNCH	----	664	UNCH	40.25B	.05	
2095	----	----	----	----	----		.05	UNCH	----	167	UNCH	17.00B	.05	
2100	----	----	----	----	----		.05	UNCH	----	2774	UNCH	42.00B	.05	
2105	----	----	----	----	----		.05	UNCH	----	373	UNCH	24.25B	.10A	
2110	----	----	----	----	----		.05	UNCH	----	1044	UNCH	44.00B	.05	
2115	----	----	----	----	----		.05	UNCH	----	222	UNCH	25.50B	.10A	
2120	----	----	----	----	----		.05	UNCH	2	3023	UNCH	46.00B	.10	
2125	----	----	----	----	----		.05	UNCH	----	8001	UNCH	47.00B	.05	
2130	----	----	----	----	----		.05	UNCH	----	694	UNCH	48.00B	.05	
2135	----	----	----	----	----		.05	UNCH	----	3721	UNCH	28.00B	.10	
2140	----	----	----	----	----		.05	UNCH	----	4420	UNCH	50.00B	.20A	
2145	----	----	----	----	----		.05	UNCH	----	1752	UNCH	29.50	.10	
2150	----	----	----	----	----		.05	UNCH	2	2862 -	2	52.25B	.10	
2155	----	----	----	----	----		.05	UNCH	----	216	UNCH	31.00B	.25	
2160	0.05	.05	.05	----	----		.05	UNCH	1	1538	UNCH	54.50B	.05	
2165	----	----	----	----	----		.05	UNCH	----	265	UNCH	32.50B	.15	
2170	----	----	----	----	----		.05	UNCH	----	3739	UNCH	57.00B	.15	
2175	0.05	.05	*.05	----	----		.05	UNCH	45	1357 +	35	58.25B	.05	
2180	----	----	----	----	----		.05	UNCH	----	2423	UNCH	59.50B	.10	
2185	----	----	----	----	----		.05	UNCH	----	421	UNCH	36.00B	.15	
2190	----	----	----	----	----		.05	UNCH	----	975	UNCH	62.25B	.10	
2195	----	----	----	----	----		.05	UNCH	.000	1042	UNCH	38.00B	.10	
2200	0.10	.10	*.05	----	----		.05	UNCH	.000	1376	8292 +	1187	65.00B	.05
2205	*.05A	----	----	----	----		.05-	5	.000	----	2836	UNCH	40.00B	.05A
2210	0.05	.05	*.05	----	----		.05-	5	.000	640	1724 +	440	67.50B	.05
2215	----	----	----	----	----		.05-	5	.000	----	1259	UNCH	42.00B	.10
2220	----	----	----	----	----		.05-	5	.000	----	2313	UNCH	71.00B	.15A
2225	0.05	.05	*.05	----	----		.05-	5	.000	42	8800	UNCH	72.75B	.05
2230	----	----	----	----	----		.05-	5	.000	----	1476	UNCH	74.25B	.15
2235	0.15	.15	*.10A	----	----		.05-	5	.000	104	3248 -	54	46.75B	.10A
2240	----	----	----	----	----		.05-	5	.000	----	12858	UNCH	77.75B	.15
2245	----	----	----	----	----		.05-	5	.000	----	682	UNCH	49.00B	.20
2250	----	----	----	----	----		.05-	5	.000	75	6836	UNCH	81.25B	.15
2255	----	----	----	----	----		.05-	5	.000	----	2001	UNCH	51.75B	.15
2260	----	----	----	----	----		.05-	5	.000	4	14571	UNCH	85.00B	.15
2265	----	----	*.10A	----	----		.05-	10	.000	----	4245	UNCH	54.50B	.10A
2270	0.15	.15	*.05	----	----		.05-	10	.000	9	1851 +	9	88.75B	.05
2275	0.10	.10	*.10	----	----		.05-	10	.001	45	2334 +	4	91.00B	.10
2280	0.10	.10	*.10	----	----		.10-	5	.002	5	3054	UNCH	93.00B	.10
2285	0.10	.10	*.10	----	----		.10-	5	.002	114	2217 -	41	60.50B	.10
2290	0.10	.10	*.10	----	----		.10-	5	.002	43	1962 +	25	97.25B	.10
2295	0.10	.10	*.10	----	----		.10-	5	.002	134	916 +	34	64.00B	.10
2300	0.10	.15	*.10	----	----		.10-	5	.002	79	8701 +	4	102.00B	.10
2305	----	----	*.15A	----	----		.10-	10	.002	----	397	UNCH	67.50B	.15A
2310	0.30	.30	*.10A	----	----		.10-	10	.002	152	1468 +	77	106.00B	.10A
2315	0.15	.15	*.15	----	----		.10-	10	.003	1	1257 +	1	71.25B	.15
2320	0.25	.25	*.15	----	----		.10-	10	.003	162	2869 +	99	111.75B	.15
2325	0.15	.20	*.15	----	----		.15-	5	.004	1346	5506 +	1162	114.25B	.15
2330	0.15	.20	*.15	----	----		.15-	10	.004	110	2666 +	110	117.00B	.15
2335	0.20	.20	*.20	----	----		.15-	10	.004	202	2159 +	170	79.25B	.20
2340	0.20	.20	*.20	----	----		.15-	10	.005	439	1669 +	243	122.50B	.20
2345	0.25	.25	*.20A	----	----		.15-	15	.005	200	944 +	138	83.50B	.20A
2350	0.25	.25	*.20A	----	----		.20-	10	.007	48	4901 -	3	128.25B	.20A
2355	0.25	.25	*.25	----	----		.2							



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Table with columns: PG48, BULLETIN #140@, E-MINI S&P 500 PUT OPTIONS, Mon, Jul 24, 2017, PG48. Contains multiple columns of numerical data representing option prices and volumes.

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PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS										Mon, Jul 24, 2017	PG48
2120	----	----	*1.00A	----	1.00-	25	.014	----	5	591 -	5	34.00B	1.00A
2125	1.05	1.05	*1.05	----	1.05-	25	.015	----	5	873 +	5	34.75B	1.05
2130	1.10	1.10	*1.05A	----	1.05-	30	.015	----	17	558 -	1	35.50B	1.05A
2135	----	----	*1.10A	----	1.10-	25	.016	----	----	1163	UNCH	36.00B	1.10A
2140	1.15	1.20B	*1.10A	----	1.15-	25	.016	----	68	538 +	2	37.00B	1.10A
2145	----	----	*1.15A	----	1.15-	30	.017	----	----	355	UNCH	37.75B	1.15A
2150	----	----	*1.20A	----	1.20-	25	.018	----	108	1733 -	90	38.75B	1.20A
2155	----	----	*1.20A	----	1.25-	20	.018	----	----	385	UNCH	39.50B	1.20A
2160	----	----	*1.25A	----	1.25-	25	.019	----	17	806 +	2	40.50B	1.25A
2165	----	----	*1.30A	----	1.30-	20	.019	----	----	169	UNCH	41.25B	1.30A
2170	1.50	1.50	*1.35A	----	1.35-	15	.020	----	57	1447 +	6	42.25B	1.35A
2175	1.55	1.55	*1.35A	----	1.40-	15	.021	----	110	545 +	100	43.25B	1.35A
2180	1.50	1.50	*1.40A	----	1.45-	15	.022	----	274	1251 +	91	44.25B	1.40A
2185	1.45	1.45	*1.45	----	1.50-	15	.023	----	1	447	UNCH	45.00B	1.45
2190	----	----	*1.50A	----	1.55-	20	.024	----	20	836 +	20	46.25B	1.50A
2195	----	----	*1.55A	----	1.60-	20	.025	----	----	300	UNCH	47.25B	1.55A
2200	1.90	1.90	*1.60A	----	1.65-	25	.026	----	6041	7329 +	4677	48.25B	1.60A
2205	1.85	1.85	*1.65A	----	1.70-	25	.027	----	3	109 +	3	49.25B	1.65A
2210	1.85	1.90B	*1.70A	----	1.75-	30	.028	----	3	1281	UNCH	50.50B	1.70A
2215	1.85	1.85	*1.75A	----	1.80-	30	.029	----	75	1365 +	75	51.50B	1.75A
2220	2.00	2.00	*1.80A	----	1.85-	30	.030	----	13	5272 +	6	52.75B	1.80A
2225	1.90	1.90	*1.85A	----	1.90-	30	.031	----	11	1008	UNCH	54.00B	1.85A
2230	----	----	*1.95A	----	1.95-	30	.032	----	----	971	UNCH	55.25B	1.95A
2235	----	----	*2.00A	----	2.05-	25	.034	----	----	258	UNCH	56.50B	2.00A
2240	2.15	2.15	*2.05A	----	2.10-	30	.035	----	128	5404	UNCH	57.75B	2.05A
2245	----	----	*2.15A	----	2.15-	30	.037	----	----	602	UNCH	59.00B	2.15A
2250	2.55	2.55	*2.15	----	2.25-	30	.038	----	2584	3961 -	351	60.50B	2.15
2255	----	----	*2.30A	----	2.35-	25	.040	----	----	200	UNCH	61.75B	2.30A
2260	2.50	2.70B	*2.35A	----	2.40-	30	.042	----	27	6881 +	20	63.25B	2.35A
2265	2.55	2.55	*2.45A	----	2.50-	30	.044	----	161	289 +	75	64.75B	2.45A
2270	----	----	*2.55A	----	2.60-	30	.046	----	----	828	UNCH	66.25B	2.55A
2275	2.85	2.90B	*2.60A	----	2.70-	30	.048	----	317	1475 +	44	67.75B	2.60A
2280	2.90	2.90	*2.70A	----	2.80-	30	.050	----	112	6496 +	102	69.50B	2.70A
2285	----	----	*2.80A	----	2.90-	35	.053	----	117	802	UNCH	71.00B	2.80A
2290	----	3.40B	*2.90A	----	3.00-	35	.055	----	----	797	UNCH	72.75B	2.90A
2295	3.65	3.65	*3.00A	----	3.10-	40	.057	----	1	377 +	1	74.50B	3.00A
2300	3.50	3.55B	*3.15A	----	3.20-	45	.060	----	1886	7047 +	1015	76.25B	3.15A
2305	----	3.85B	*3.25A	----	3.30-	50	.062	----	----	185	UNCH	78.00B	3.25A
2310	3.90	4.00B	*3.40A	----	3.45-	50	.066	----	7	424 +	5	79.75B	3.40A
2315	----	4.20B	*3.55A	----	3.60-	55	.069	----	----	404	UNCH	81.75B	3.55A
2320	4.20	4.40B	*3.70A	----	3.75-	60	.073	----	1	1114 +	1	83.75B	3.70A
2325	4.35	4.60B	*3.85A	----	3.90-	60	.076	----	185	613 +	101	85.75B	3.85A
2330	----	4.80B	*4.00A	----	4.05-	70	.080	----	----	887	UNCH	87.75B	4.00A
2335	4.85	5.00B	*4.20A	----	4.25-	70	.085	----	229	940 +	143	89.75B	4.20A
2340	----	----	*4.35A	----	4.45-	75	.090	----	----	1214	UNCH	92.00B	4.35A
2345	----	----	*4.55A	----	4.65-	75	.094	----	----	246	UNCH	94.00B	4.55A
2350	5.75	5.75	*4.80A	----	4.90-	80	.100	----	1920	5971 -	113	96.25B	4.80A
2355	----	----	*5.25A	----	5.10-	90	.105	----	----	260	UNCH	98.50B	5.25A
2360	6.00	6.50B	*5.50A	----	5.40-	90	.112	----	73	1163	UNCH	101.00B	5.50A
2365	6.75	6.75	*5.75A	----	5.70-	90	.119	----	116	630 +	116	103.25B	5.75A
2370	----	----	*6.00A	----	6.00-	90	.127	----	----	820	UNCH	105.75B	6.00A
2375	6.50	7.50B	*6.25A	----	6.30-	100	.134	----	81	1522 +	80	108.25B	6.25A
2380	8.00	8.00	*6.75A	----	6.70-	100	.143	----	8	273	UNCH	111.00B	6.75A
2385	8.25	8.50	*7.00A	----	7.10-	100	.153	----	79	713 -	17	113.50B	7.00A
2390	8.00	8.75B	*7.50A	----	7.50-	100	.163	----	137	1492 -	119	116.25B	7.50A
2395	----	9.75B	*7.75A	----	8.00-	100	.174	----	----	892	UNCH	119.00B	7.75A
2400	10.00	10.25B	*8.25	----	8.50-	100	.186	----	2633	11563 +	614	122.00B	8.25
2405	10.25	10.50B	*8.75A	----	9.00-	100	.198	----	5	622 +	3	124.75B	8.75A
2410	11.00	11.50B	*9.25	----	9.60-	100	.213	----	217	1284 +	4	127.75B	9.25
2415	11.00	12.00B	*10.00	----	10.30-	100	.228	----	12	563 +	12	130.75B	10.00
2420	12.00	13.00B	*10.75A	----	11.00-	90	.245	----	2	1521 +	2	134.00B	10.75A
2425	----	13.75B	*11.50A	----	11.80-	90	.263	----	----	871	UNCH	137.00B	11.50A
2430	14.50	14.75B	*12.25A	----	12.60-	90	.282	----	4	1742 -	1	140.25B	12.25A
2435	15.75	15.75	*13.00A	----	13.60-	90	.304	----	58	810 +	8	143.50B	13.00A
2440	16.50	17.00B	*14.00A	----	14.60-	90	.327	----	35	425 +	20	147.00B	14.00A
2445	17.25	18.25B	*15.25A	----	15.70-	90	.351	----	13	229 +	11	150.50B	15.25A
2450	17.75	19.50B	*16.25A	----	17.00-	90	.378	----	392	1790 +	60	154.00B	16.25A
2455	20.25	21.25B	17.75A	----	18.30-	100	.407	----	36	449 +	26	157.50B	17.75A
2460	21.50	22.75B	19.25	----	19.90-	90	.438	----	167	235 +	99	161.25B	19.25A
2465	24.25	24.75B	20.75A	----	21.60-	90	.471	----	24	189 +	19	165.00B	20.75A
2470	25.25	26.50B	22.50A	----	23.40-	100	.506	----	55	365 +	25	168.75B	22.25A
2475	27.00	28.75B	24.50A	----	25.50-	90	.543	----	119	229 +	89	172.50B	24.25A
2480	27.25	31.00B	26.75A	----	27.80-	80	.582	----	9	46 -	9	176.50B	26.25A
2485	----	33.75B	29.50A	----	30.30-	70	.621	----	----	13	UNCH	180.50B	28.25A
2490	----	36.50B	32.00A	----	33.10-	50	.661	----	----	235	UNCH	184.50B	30.75A
2500	42.00	43.25B	38.25A	----	39.30-	30	.738	----	3	47 +	1	192.75B	36.25A
2505	----	46.75B	41.75A	----	42.90	UNCH	.775	----	----	1	UNCH	197.00B	39.25A
2510	----	50.75B	45.25A	----	46.60+	10	.807	----	----	3	UNCH	201.25B	42.50A
2515	----	54.75B	49.25A	----	50.60+	20	.837	----	----	101	UNCH	205.50B	46.00A
2535	----	72.50B	66.50A	----	68.20+	70	.923	----	----	1	UNCH	223.00B	62.25A
2550	----	87.00B	80.75A	----	82.40+	80	.954	----	----	8	UNCH	236.75B	75.75A
2555	----	91.75B	85.75A	----	87.30+	80	.961	----	----	1	UNCH	241.25B	80.50A
2575	----	109.75B	----	----	107.00+	90	.976	----	----	1	UNCH	260.25B	99.75A
2590	----	----	----	----	121.80+	90	.981	----	----	3	UNCH	262.50B	116.25A
2615	----	----	----	----	146.70+	100	.987	----	----	1	UNCH	241.25B	164.75A
2625	----	----	----	----	156.70+	100	.989	----	----	2	UNCH	296.75B	182.75A
2640	----	----	----	----	171.60+	100	.990	----	----	1	UNCH	287.75B	197.50A
2650	----	----	----	----	181.60+	100	.992	----	----	1	UNCH	291.50B	258.50A
3550	----	----	----	----	1080.70+	150	1.000	----	----	2	UNCH	----	----
TOTAL	SEP17	EOM EMINI S&P P	----	----	----	----	----	----	19890	192492 +	6807	----	----
1200	----	----	----	----	.05-	5	.000	----	----	101	UNCH	.50B	.30A
1300	----	----	----	----	.10-	5	.000	----	----	1	UNCH	1.20B	.25A
1325	----	----	----	----	.10-	5	.000	----	----	90	UNCH	1.30B	.20A
1375	----	----	----	----	.15	UNCH	.000	----	----	90	UNCH	1.70B	.25A
1400	----	----	----	----	.15-	5	.001	----	----	100	UNCH	1.75B	.25A
1410	----	----	----	----	.15-	5	.001	----	----	100	UNCH	1.95B	.25A
1420	----	----	----	----	.15-	5	.001	----	----	15	UNCH	2.05B	.25
1425	----	----	----	----	.20	UNCH	.001	----	----	145	UNCH	2.10B	.65A
1430	----	----	----	----	.20	UNCH	.001	----	----	21	UNCH	2.05B	.40A
1440	----	----	----	----	.20-	5	.001	----	----	95	UNCH	2.20B	.25
1450	----	----	----	----	.20-	5	.001	----	----	126	UNCH	2.30B	.25
1460	----	----	----	----	.20-	5	.001	----	----	147	UNCH	2.40B	.25
1470													

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PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS										Mon, Jul 24, 2017	PG48	
1725	----	----	----	----	----	.65-	5	.005	----	----	260	UNCH	6.75B	.85A
1730	----	----	----	----	----	.65-	5	.005	----	----	3067	UNCH	7.00B	.75A
1740	0.75	.75	*.75	----	----	.70-	5	.005	----	100	236 -	90	7.25B	.75
1750	0.75	.75	.75	----	----	.75-	5	.006	----	22	231	UNCH	7.50B	.75A
1760	----	----	*.75A	----	----	.75-	5	.006	----	----	234	UNCH	7.75B	.75A
1770	0.80	.80	*.80	----	----	.80-	5	.006	----	6	485 -	6	8.00B	.80
1775	0.80	.80	*.80	----	----	.80-	5	.006	----	12	171 +	8	8.25B	.80
1780	----	----	*.85A	----	----	.80-	10	.006	----	----	125	UNCH	8.50B	.85A
1790	----	----	*.85A	----	----	.85-	5	.007	----	----	289	UNCH	8.75B	.85A
1800	----	----	.90A	----	----	.90-	5	.007	----	----	297	UNCH	9.25B	.90
1810	0.90	.90	*.90	----	----	.90-	10	.007	----	22	97 +	22	9.50B	.90
1820	----	----	*.95A	----	----	.95-	5	.008	----	----	232	UNCH	10.00B	.95A
1825	0.95	.95	*.95	----	----	.95-	10	.008	----	3	696 -	3	10.00B	.95
1830	----	----	*1.00A	----	----	1.00-	5	.008	----	----	589	UNCH	10.25B	1.00A
1840	1.05	1.05	*1.05	----	----	1.00-	10	.008	----	37	462	UNCH	10.75B	1.05
1850	----	----	1.10A	----	----	1.05-	10	.009	----	----	1632	UNCH	11.25B	1.10
1860	----	----	*1.10A	----	----	1.10-	10	.009	----	----	110	UNCH	11.75B	1.10A
1870	1.10	1.10	*1.10	----	----	1.15-	10	.010	----	10	327 +	9	12.25B	1.10
1875	----	----	*1.20A	----	----	1.15-	10	.010	----	----	268	UNCH	12.75B	1.20A
1880	----	----	*1.20A	----	----	1.20-	5	.010	----	9	378	UNCH	12.75B	1.20A
1890	----	----	*1.25A	----	----	1.20-	10	.010	----	----	581	UNCH	13.25B	1.25A
1900	----	----	*1.30A	----	----	1.25-	10	.011	----	----	377	UNCH	13.75	1.30A
1910	----	----	*1.35A	----	----	1.30-	15	.011	----	----	284	UNCH	14.75B	1.35A
1920	----	----	*1.40A	----	----	1.35-	15	.012	----	----	480	UNCH	15.00B	1.40A
1925	----	----	*1.45A	----	----	1.40-	10	.013	----	----	607	UNCH	15.25B	1.45A
1930	1.40	1.40	*1.40	----	----	1.40-	15	.013	----	22	309 +	22	16.00B	1.40
1940	----	----	*1.50A	----	----	1.45-	15	.013	----	4	315	UNCH	16.25B	1.50A
1950	----	----	*1.55A	----	----	1.55-	10	.014	----	----	2195	UNCH	17.00B	1.55A
1960	1.60	1.60	*1.60	----	----	1.60-	15	.015	----	51	461 -	1	17.75B	1.60
1970	----	----	*1.70A	----	----	1.65-	15	.016	----	----	385	UNCH	19.00	1.70A
1975	----	----	*1.75A	----	----	1.70-	15	.016	----	4	451	UNCH	19.25B	1.75A
1980	----	----	*1.75A	----	----	1.75-	15	.017	----	----	548	UNCH	19.25B	1.75A
1990	----	----	*1.85A	----	----	1.80-	15	.017	----	----	559	UNCH	20.50B	1.85A
2000	1.90	1.90	*1.90	----	----	1.85-	20	.018	----	37	1654 +	7	21.00B	1.90
2010	----	----	*2.00A	----	----	1.95-	20	.019	----	----	575	UNCH	22.25B	2.00A
2020	----	----	*2.05A	----	----	2.05-	15	.020	----	----	225	UNCH	23.25B	2.05A
2025	2.25	2.25	*2.10A	----	----	2.10-	15	.021	----	5	2502 -	3	23.75B	2.10A
2030	2.25	2.25	*2.15A	----	----	2.15-	15	.021	----	3	3704 +	3	24.25B	2.15A
2040	2.40	2.40	*2.15	----	----	2.20-	20	.022	----	7	456	UNCH	25.25B	2.15
2050	----	----	*2.35A	----	----	2.30-	25	.023	----	122	1338 +	119	26.25B	2.35A
2060	----	----	*2.45A	----	----	2.45-	20	.025	----	4	337	UNCH	27.50B	2.45A
2070	----	----	*2.55A	----	----	2.55-	20	.026	----	----	39	UNCH	28.75B	2.55A
2075	2.60	2.60	*2.60	----	----	2.60-	25	.027	----	25	1307 +	22	29.25B	2.60
2080	----	----	*2.65A	----	----	2.65-	25	.028	----	----	232	UNCH	29.75B	2.65A
2090	----	----	*2.80A	----	----	2.80-	25	.030	----	----	315	UNCH	31.25B	2.80A
2100	3.05	3.05	*2.90A	----	----	2.95-	25	.032	----	4	804 +	1	32.50B	2.90A
2110	----	----	*3.05A	----	----	3.05-	30	.033	----	----	404	UNCH	34.00B	3.05A
2120	----	----	*3.20A	----	----	3.25-	25	.035	----	9	274 +	3	35.25B	3.20A
2125	----	----	*3.25A	----	----	3.30-	30	.036	----	----	1924	UNCH	36.00B	3.25A
2130	3.45	3.65B	*3.35A	----	----	3.40-	30	.037	----	1	1598 +	1	36.75B	3.35A
2140	----	----	*3.50A	----	----	3.55-	35	.040	----	----	651	UNCH	38.50B	3.50A
2150	----	----	*3.70A	----	----	3.75-	35	.042	----	6	687 +	6	40.00B	3.70A
2160	4.25	4.25	*3.85	----	----	3.95-	40	.045	----	12	469	UNCH	41.75B	3.85
2165	4.30	4.30	*4.00A	----	----	4.05-	40	.046	----	1	36	UNCH	10.00B	4.00A
2170	----	4.60B	*4.10A	----	----	4.15-	40	.048	----	----	682	UNCH	43.75B	4.10A
2175	----	----	*4.20A	----	----	4.30-	40	.049	----	----	432	UNCH	44.50B	4.20A
2180	----	----	*4.35A	----	----	4.40-	45	.051	----	----	669	UNCH	45.50B	4.35A
2185	----	5.00B	*4.45A	----	----	4.55-	40	.053	----	----	54	UNCH	16.00B	4.45A
2190	----	----	*4.60A	----	----	4.65-	45	.054	----	----	377	UNCH	47.50B	4.60A
2195	5.00	5.00	*4.70A	----	----	4.80-	50	.056	----	10	111	UNCH	16.75B	4.70A
2200	----	----	*4.85A	----	----	4.95-	45	.058	----	2	2455	UNCH	49.75B	4.85A
2205	----	----	*5.00A	----	----	5.10-	50	.060	----	----	32	UNCH	17.75B	5.00A
2210	----	----	*5.25A	----	----	5.20-	50	.062	----	----	130	UNCH	51.75B	5.25A
2215	----	----	*5.50A	----	----	5.40-	50	.064	----	----	121	UNCH	18.75B	5.50A
2220	5.75	6.00	*5.50	----	----	5.50-	60	.066	----	11	86 +	11	54.25B	5.50
2225	----	----	*5.75A	----	----	5.70-	60	.069	----	----	2922	UNCH	55.25B	5.75A
2230	----	----	*6.00A	----	----	5.90-	60	.071	----	----	1062	UNCH	56.50B	6.00A
2235	----	----	*6.00A	----	----	6.10-	60	.074	----	----	66	UNCH	20.75B	6.00A
2240	6.50	6.50	*6.25A	----	----	6.30-	60	.077	----	15	395 -	5	59.00B	6.25A
2245	----	----	*6.50A	----	----	6.50-	60	.080	----	----	162	UNCH	22.00B	6.50A
2250	6.75	6.75	*6.75	----	----	6.70-	60	.082	----	47	1978 +	22	61.75B	6.75
2255	----	----	*6.75A	----	----	6.90-	60	.085	----	2	23 +	2	23.25B	6.75A
2260	----	----	*7.00A	----	----	7.10-	70	.088	----	1	273	UNCH	64.50B	7.00A
2265	----	----	*7.25A	----	----	7.30-	70	.091	----	----	175	UNCH	24.50B	7.25A
2270	7.50	7.50	*7.50	----	----	7.60-	70	.095	----	5	636 +	5	67.25B	7.50
2275	8.25	8.75B	*7.75A	----	----	7.80-	70	.098	----	12	364 +	12	68.75B	7.75A
2280	----	9.00B	*8.00A	----	----	8.10-	70	.102	----	5	602 +	5	70.50B	8.00A
2285	----	9.25B	*8.25A	----	----	8.40-	70	.106	----	----	150	UNCH	27.50B	8.25A
2290	----	----	*8.50A	----	----	8.70-	70	.111	----	----	189	UNCH	73.50B	8.50A
2295	----	10.00B	*9.00A	----	----	9.00-	70	.115	----	4	79 +	4	29.00B	9.00A
2300	----	10.25B	*9.25A	----	----	9.30-	70	.119	----	2	1021 +	1	77.00B	9.25A
2305	10.75	10.75	*9.50A	----	----	9.60-	70	.124	----	3	134 +	1	30.75B	9.50A
2310	10.75	11.00B	*9.75A	----	----	10.00-	70	.129	----	32	201 +	32	80.50B	9.75A
2315	----	11.50B	*10.25A	----	----	10.40-	60	.134	----	----	250	UNCH	32.75B	10.25A
2320	----	12.00B	*10.50A	----	----	10.70-	70	.139	----	----	139	UNCH	84.25B	10.50A
2325	----	12.25B	*11.00A	----	----	11.10-	70	.145	----	2	1306 +	2	86.00B	11.00A
2330	11.50	12.75B	*11.25A	----	----	11.60-	60	.151	----	7	222 +	5	88.00B	11.25A
2335	12.50	13.25B	*11.75A	----	----	12.00-	70	.157	----	100	134 -	100	36.75B	11.75A
2340	----	13.75B	*12.25A	----	----	12.50-	70	.164	----	3	3177 -	3	92.00B	12.25A
2345	----	14.25B	*12.75A	----	----	12.90-	80	.170	----	----	201	UNCH	39.00B	12.75A
2350	14.50	14.75B	*13.25A	----	----	13.40-	80	.178	----	22	885 +	19	96.50B	13.25A
2355	----	15.25B	*13.75A	----	----	14.00-	70	.186	----	----	73	UNCH	41.50B	13.75A
2360	----	16.00B	*14.25A	----	----	14.50-	80	.193	----	----	201	UNCH	101.00B	14.25A
2365	----	16.50B	*14.75A	----	----	15.10-	80	.202	----	1	539	UNCH	44.25B	14.75A
2370	----	17.25B	*15.25A	----	----	15.70-	80	.210	----	----	401	UNCH	105.75B	15.25A
2375	----	18.00B	*16.00A	----	----	16.30-	90	.219	----	23	1076 +	15	108.00B	16.00A
2380	----	18.50B	*16.50A	----	----	17.00-	90	.229	----	----	504	UNCH	110.50B	16.50A
2385	18.75	19.25B	*17.25A	----	----	17.70-	90	.239	----	19	146 +	19	50.25B	17.25A
2390	----	20.25B	*18.00A	----	----	18.40-	90	.249	----	16	394 -	16	115.75B	18.00A
2395	----	21.00B	*18.75A	----	----	19.20-	90	.260	----	----	474	UNCH	58.50B	18.75A
2400	21.00	22.00B	*19.50A	----	----	20								



FINAL

PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS										Mon, Jul 24, 2017	PG48
2625	----	161.75B	----	----	159.10+	90	.976	----	----	2	UNCH	299.25B	152.00A
2650	----	----	----	----	183.90+	90	.982	----	----	1	UNCH	323.75B	202.25A
TOTAL										1321	75477 +	261	
OCT17	EOM EMINI S&P P				CAB					2	UNCH	----	----
800	----	----	----	----	.05	UNCH	.000	----	----	75	UNCH	.45	.35A
1050	----	----	----	----	.10	UNCH	.000	----	----	1	UNCH	.75B	.15A
1175	----	----	----	----	.10-	5	.000	----	----	100	UNCH	.80B	.30A
1200	----	----	----	----	.10-	5	.000	----	----	100	UNCH	.85B	.20A
1225	----	----	----	----	.15-	5	.000	----	----	2	UNCH	1.10B	.25A
1275	----	----	----	----	.20	UNCH	.001	----	----	9	UNCH	1.25	.25
1300	----	----	----	----	.20-	5	.001	----	----	23	UNCH	1.30B	.30A
1325	----	----	----	----	.25-	5	.001	----	----	1	UNCH	1.45B	.35A
1350	----	----	----	----	.25-	5	.001	----	----	211	UNCH	1.60B	.40A
1375	----	----	----	----	.30-	5	.001	----	----	200	UNCH	1.70B	.40A
1390	----	----	----	----	.30-	5	.001	----	----	220	UNCH	1.80B	.35
1400	----	----	----	----	.30-	5	.001	----	----	91	UNCH	1.85B	.45A
1410	----	----	----	----	.35-	5	.002	----	----	60	UNCH	1.95B	.45
1420	----	----	----	----	.35-	5	.002	----	----	50	UNCH	2.00B	.50A
1425	----	----	----	----	.35-	5	.002	----	----	90	UNCH	2.00B	.50A
1430	----	----	----	----	.40-	5	.002	----	----	30	UNCH	2.10B	.50
1440	----	----	----	----	.40-	5	.002	----	----	15	UNCH	2.20B	.45A
1450	----	----	----	----	.40-	5	.002	----	----	49	UNCH	2.25B	.50
1460	----	----	----	----	.45-	5	.002	----	----	160	UNCH	2.40B	.50A
1475	----	----	----	----	.45-	5	.002	----	----	221	UNCH	2.45B	.45
1480	----	----	----	----	.50-	5	.003	----	----	25776	UNCH	2.65B	.50
1500	----	----	----	----	.50-	5	.003	----	----	32	UNCH	2.75B	.75A
1510	----	----	----	----	.55-	5	.003	----	----	180	UNCH	3.05	.60A
1520	----	----	----	----	.55-	5	.003	----	----	143	UNCH	2.95B	.60A
1525	----	----	----	----	.55-	5	.003	----	----	20	UNCH	2.95B	.80A
1530	----	----	----	----	.55-	5	.003	----	----	1	UNCH	3.10B	.65A
1540	----	----	----	----	.60-	5	.003	----	----	270	UNCH	3.20B	.85A
1550	----	----	----	----	.60-	5	.003	----	----	164	UNCH	3.35B	.70A
1560	----	----	----	----	.65-	5	.004	----	----	233	UNCH	3.50B	.90A
1570	----	----	----	----	.65-	5	.004	----	----	800	UNCH	3.60B	.75A
1580	----	----	----	----	.70-	5	.004	----	----	51	UNCH	3.75B	.80A
1590	----	----	----	----	.70-	10	.004	----	----	113	UNCH	3.90B	.75
1600	----	----	----	----	.75-	5	.005	----	----	128	UNCH	4.05B	.85A
1610	----	----	----	----	.75-	10	.005	----	----	62	UNCH	4.20B	.90A
1620	----	----	----	----	.80-	5	.005	----	----	90	UNCH	4.30B	.90A
1625	----	----	----	----	.80-	5	.005	----	----	150	UNCH	4.40B	.85A
1630	----	----	----	----	.85-	5	.005	----	----	301	UNCH	4.55B	.95A
1640	----	----	----	----	.85-	10	.005	----	----	289	UNCH	4.75B	.90A
1650	----	*.90A	----	----	.90-	5	.006	----	----	294	UNCH	4.90B	.95A
1660	----	----	----	----	.90-	10	.006	----	----	368	UNCH	5.00B	1.00A
1670	----	----	----	----	.95-	5	.006	----	----	156	UNCH	5.00B	1.00A
1675	----	----	----	----	.95-	10	.006	----	----	270	UNCH	5.25B	1.00A
1680	----	*1.00A	----	----	1.00-	5	.007	----	100	351 -	100	5.75	1.05A
1690	1.10	1.10	----	----	1.05-	5	.007	----	2	80 +	2	5.75B	1.05
1700	1.05	1.05	----	----	1.05-	10	.007	----	----	1	UNCH	5.75B	1.10A
1710	----	----	----	----	1.10-	10	.007	----	----	1	UNCH	6.00B	1.15A
1720	----	----	----	----	1.15-	5	.008	----	----	16	UNCH	6.25B	1.20A
1725	----	----	----	----	1.15-	10	.008	----	----	31	UNCH	6.75B	1.20A
1730	----	*1.20A	----	----	1.20-	10	.008	----	----	69	UNCH	7.00B	1.25A
1740	----	1.25A	----	----	1.25-	10	.009	----	----	16	UNCH	7.25B	1.30A
1750	----	1.30A	----	----	1.30-	10	.009	----	3	4 +	3	7.25B	1.35A
1760	----	1.35A	----	----	1.35-	10	.010	----	----	3	UNCH	7.50B	1.40A
1770	----	1.40A	----	----	1.40-	5	.010	----	----	2	UNCH	8.00B	1.40A
1775	----	*1.40A	----	----	1.45-	10	.010	----	----	69	UNCH	8.50B	1.50A
1790	----	*1.50A	----	----	1.50-	10	.011	----	107	618 +	91	8.75B	1.50
1800	1.55	1.55	----	----	1.60-	5	.012	----	----	1	UNCH	9.25B	1.60A
1810	----	*1.60A	----	----	1.70-	5	.013	----	----	54	UNCH	9.75B	1.70A
1825	----	*1.70A	----	----	1.70-	10	.013	----	----	50	UNCH	10.00B	1.70A
1830	----	*1.70A	----	----	1.80-	5	.013	----	----	95	UNCH	10.50B	1.80A
1840	----	*1.80A	----	----	1.85-	10	.014	----	----	128	UNCH	11.00B	1.85A
1850	----	*1.85A	----	----	1.95-	5	.015	----	----	121	UNCH	11.25B	1.90A
1860	----	*1.90A	----	----	2.00-	10	.015	----	----	224	UNCH	11.75B	2.00A
1870	----	*2.00A	----	----	2.05-	10	.016	----	----	152	UNCH	12.00B	2.05A
1875	----	*2.05A	----	----	2.10-	10	.016	----	----	129	UNCH	12.25B	2.05A
1880	----	*2.05A	----	----	2.15-	15	.017	----	----	111	UNCH	12.75B	2.15A
1890	----	*2.15A	----	----	2.25-	15	.018	----	1	213 +	1	13.50B	2.25A
1900	2.50	2.50	----	----	2.35-	15	.019	----	----	69	UNCH	14.00B	2.35A
1910	----	*2.35A	----	----	2.45-	15	.019	----	----	247	UNCH	14.50B	2.40A
1920	----	*2.40A	----	----	2.50-	15	.020	----	----	185	UNCH	15.00B	2.45A
1925	----	*2.45A	----	----	2.55-	15	.020	----	----	16	UNCH	15.25B	2.50A
1930	----	*2.50A	----	----	2.65-	15	.021	----	----	126	UNCH	15.75B	2.65A
1940	----	*2.65A	----	----	2.75-	20	.022	----	----	291	UNCH	16.50B	2.75A
1950	----	*2.75A	----	----	2.90-	15	.024	----	----	15	UNCH	17.25B	2.85A
1960	----	*2.85A	----	----	3.00-	20	.025	----	----	14	UNCH	18.00	3.00A
1970	----	*3.00A	----	----	3.05-	25	.025	----	----	618	UNCH	18.25B	3.05A
1975	----	*3.05A	----	----	3.15-	20	.026	----	----	172	UNCH	18.75B	3.10A
1980	----	*3.10A	----	----	3.25-	25	.027	----	----	64	UNCH	19.50B	3.25A
1990	----	*3.25A	----	----	3.40-	25	.029	----	12	6022	UNCH	20.25B	3.40A
2000	3.45	3.45	----	----	3.55-	30	.030	----	----	26	UNCH	21.25B	3.55A
2010	----	*3.40A	----	----	3.70-	30	.032	----	----	137	UNCH	22.25B	3.70A
2020	----	*3.55A	----	----	3.80-	30	.033	----	----	6032	UNCH	22.50B	3.80A
2025	----	*3.70A	----	----	3.90-	30	.034	----	66	895 +	66	23.00B	3.70
2030	3.70	3.85B	----	----	4.10-	30	.035	----	----	3	UNCH	24.00B	4.05A
2040	----	*4.05A	----	----	4.25-	35	.037	----	2	6762	UNCH	25.00B	4.25A
2050	4.80	4.80	----	----	4.45-	40	.039	----	----	5	UNCH	26.00B	4.45A
2060	----	*4.25A	----	----	4.70-	40	.042	----	----	1	UNCH	27.25B	4.65A
2070	----	*4.45A	----	----	4.80-	40	.043	----	4	7306 -	4	27.75B	4.75A
2075	----	*4.65A	----	----	4.90-	40	.044	----	----	723	UNCH	28.25B	4.90A
2080	----	*4.90A	----	----	5.20-	40	.046	----	40	901	UNCH	29.50B	5.25
2090	5.25	5.25	----	----	5.40-	40	.049	----	----	308	UNCH	30.75B	5.50A
2100	----	*5.25A	----	----	5.70-	40	.052	----	----	144	UNCH	32.00B	5.75A
2110	----	*5.50A	----	----	6.00-	40	.055	----	----	80	UNCH	33.50B	6.00A
2120	----	*5.75A	----	----	6.10-	50	.056	----	----	116	UNCH	34.25B	6.25A
2125	----	*6.00A	----	----	6.30-	50	.058	----	----	185	UNCH	34.75B	6.25A
2130	----	*6.25A	----	----	6.60-	50	.061	----	----	27			



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PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS								Mon, Jul 24, 2017				PG48
2320	17.25	19.25B	*17.25	----	18.00-	70	.182	----	2	620 +	2	78.25B	17.25	
2325	----	20.00B	*18.25A	----	18.50-	80	.188	----	----	165	UNCH	80.00B	18.25A	
2330	----	20.50B	*18.75A	----	19.00-	80	.193	----	----	11	UNCH	81.75B	18.75A	
2335	----	21.25B	*19.25A	----	19.60-	80	.200	----	----	1	UNCH	47.50B	19.25A	
2340	----	21.75B	*20.00A	----	20.20-	80	.207	----	----	30	UNCH	85.50B	20.00A	
2350	22.75	23.25B	*21.25A	----	21.50-	80	.221	----	115	845 +	77	89.25B	21.25A	
2355	----	24.00B	*22.00A	----	22.20-	80	.228	----	----	1	UNCH	52.50B	22.00A	
2360	----	24.75B	*22.50A	----	22.90-	80	.236	----	----	46	UNCH	93.25B	22.50A	
2365	----	25.50B	*23.25A	----	23.70-	80	.244	----	----	2	UNCH	55.50B	23.25A	
2370	----	26.25B	*24.00A	----	24.50-	80	.252	----	----	28	UNCH	97.50B	24.00A	
2375	----	27.25B	*25.00A	----	25.30-	80	.261	----	----	504	UNCH	99.75B	25.00A	
2380	----	28.00B	*25.75A	----	26.10-	90	.270	----	----	45	UNCH	102.00B	25.75A	
2385	----	29.00B	*26.50A	----	27.00-	80	.279	----	----	26	UNCH	61.75B	26.50A	
2390	----	30.00B	*27.50A	----	27.90-	90	.289	----	----	112	UNCH	106.75B	27.50A	
2395	----	31.00B	*28.50A	----	28.90-	80	.299	----	----	156	UNCH	65.00B	28.50A	
2400	29.25	32.00B	*29.25	----	29.80-	90	.309	----	34	294 +	34	111.50B	29.25	
2405	----	33.00B	*30.25A	----	30.80-	90	.320	----	----	11	UNCH	68.75B	30.25A	
2410	----	34.25B	*31.50A	----	31.90-	90	.331	----	----	139	UNCH	116.50B	31.50A	
2415	----	35.50B	*32.50A	----	33.00-	90	.343	----	----	52	UNCH	72.50B	32.50A	
2420	----	36.75B	*33.75A	----	34.20-	90	.355	----	----	227	UNCH	122.00B	33.75A	
2425	----	38.00B	*34.75A	----	35.40-	90	.368	----	----	164	UNCH	124.75B	34.75A	
2430	----	39.25B	*36.00A	----	36.70-	90	.381	----	10	106	UNCH	127.50B	36.00A	
2435	----	40.75B	*37.50A	----	38.00-	100	.394	----	----	30	UNCH	81.00B	37.50A	
2440	----	42.00B	*38.75A	----	39.40-	100	.408	----	10	113	UNCH	133.25B	38.75A	
2445	----	43.75B	*40.25A	----	40.90-	90	.423	----	----	638	UNCH	85.50B	40.25A	
2450	----	45.25B	*41.75A	----	42.40-	90	.438	----	8	113 +	4	139.50B	41.75A	
2455	----	47.00B	*43.25A	----	44.00+	NEW	.453	----	160	160 +	160	90.25B	43.25A	
2460	----	48.75B	45.00A	----	45.70-	80	.469	----	----	410	UNCH	146.00B	45.00A	
2465	----	50.50B	46.75A	----	47.40-	80	.485	----	10	29 +	10	95.50B	46.50A	
2470	----	52.25B	48.50A	----	49.30-	70	.502	----	----	449	UNCH	152.75B	48.25A	
2480	----	56.50B	52.25A	----	53.20-	70	.538	----	----	1	UNCH	159.50B	52.00A	
2485	----	58.50B	54.50A	----	55.30-	60	.556	----	----	30	UNCH	107.00B	54.00A	
2500	----	65.50B	61.50A	----	62.30-	40	.613	----	----	2	UNCH	174.25B	60.50A	
2530	----	82.75B	78.25A	----	79.50	UNCH	.731	----	----	315	UNCH	198.00B	76.50A	
2535	----	86.25B	81.50A	----	82.80	UNCH	.750	----	80	80 +	80	142.50B	79.50A	
2550	----	97.25B	92.00A	----	93.40+	10	.805	----	----	224	UNCH	215.25B	89.50A	
2575	----	117.50B	112.00A	----	113.60+	40	.880	----	----	2	UNCH	237.50B	108.50A	
2660	----	198.25B	192.25A	----	194.00+	80	.974	----	----	1	UNCH	312.00B	187.00A	
2725	----	----	----	----	258.40+	90	.986	----	----	1	UNCH	304.50B	284.50A	
3575	----	----	----	----	1105.20+	100	1.000	----	----	2	UNCH	----	----	
TOTAL									925	96742 +	502			
NOV17	EOM EMINI S&P P													
1000	----	----	----	----	.10	UNCH	.000	----	----	1	UNCH	.25B	.20A	
1100	----	----	----	----	.15	UNCH	.000	----	2	2 +	2	.40B	.20A	
1175	----	----	----	----	.20-	5	.001	----	----	6	UNCH	.55B	.20	
1200	----	----	----	----	.25	UNCH	.001	----	----	100	UNCH	.60B	.25	
1225	----	----	----	----	.25-	5	.001	----	----	40	UNCH	.65B	.35A	
1275	----	----	----	----	.30-	10	.001	----	----	82	UNCH	.75B	.40	
1300	----	----	----	----	.35-	5	.001	----	----	92	UNCH	.85B	.45	
1350	----	----	----	----	.45-	5	.002	----	----	10	UNCH	1.00B	.50	
1375	----	----	----	----	.45-	10	.002	----	----	1042	UNCH	1.10B	.50	
1390	----	----	.55A	----	.50-	10	.002	----	----	25	UNCH	1.20B	.50	
1400	0.50	.50	.50	----	.50-	10	.002	----	5	136 +	5	1.25B	.50	
1410	0.50	.50	*.50	----	.55-	10	.003	----	5	26 +	5	1.30B	.50	
1420	----	----	----	----	.55-	10	.003	----	----	52	UNCH	1.35B	.80A	
1425	----	----	----	----	.55-	10	.003	----	----	75	UNCH	1.40B	.55	
1430	----	----	.65A	----	.60-	10	.003	----	----	15	UNCH	1.40B	.60	
1450	----	----	.70A	----	.65-	10	.003	----	----	37	UNCH	1.55B	.60	
1470	0.65	.65	.65	----	.70-	5	.004	----	5	20 +	5	1.65B	.65	
1475	----	----	*.75A	----	.70-	10	.004	----	----	234	UNCH	1.70B	.75A	
1490	----	----	----	----	.75-	5	.004	----	----	30	UNCH	1.80B	.70	
1500	----	----	----	----	.75-	10	.004	----	----	380	UNCH	1.90B	.90A	
1510	----	----	*.85A	----	.80-	10	.004	----	----	240	UNCH	1.95B	.85A	
1520	----	----	----	----	.85-	5	.005	----	----	100	UNCH	2.05B	1.00A	
1570	----	----	1.05A	----	1.00-	10	.006	----	----	2	UNCH	2.50B	.95	
1575	----	----	1.05A	----	1.00-	10	.006	----	----	100	UNCH	2.55B	1.05A	
1580	----	----	----	----	1.05-	5	.006	----	----	40	UNCH	2.60B	1.05A	
1640	----	----	*1.35A	----	1.30-	10	.008	----	----	10	UNCH	3.35B	1.35A	
1650	----	----	*1.40A	----	1.35-	10	.008	----	----	101	UNCH	3.50B	1.40A	
1660	----	----	*1.45A	----	1.40-	10	.008	----	----	6	UNCH	3.60B	1.45A	
1670	----	----	*1.50A	----	1.45-	10	.009	----	----	2	UNCH	3.75B	1.50A	
1680	----	----	*1.55A	----	1.50-	10	.009	----	----	1	UNCH	3.90B	1.55A	
1690	----	----	*1.60A	----	1.55-	15	.010	----	----	1	UNCH	4.05B	1.60A	
1700	----	----	*1.65A	----	1.60-	15	.010	----	----	9	UNCH	4.25B	1.65A	
1710	----	----	*1.70A	----	1.65-	15	.010	----	----	9	UNCH	4.40B	1.70A	
1720	----	----	*1.80A	----	1.75-	15	.011	----	----	1	UNCH	4.60B	1.80A	
1725	----	----	*1.80A	----	1.75-	15	.011	----	----	5	UNCH	4.65B	1.80A	
1730	----	----	*1.85A	----	1.80-	15	.011	----	----	71	UNCH	4.75B	1.85A	
1740	----	----	*1.90A	----	1.85-	20	.012	----	----	1	UNCH	4.95B	1.90A	
1750	----	----	*2.00A	----	1.95-	15	.013	----	----	12	UNCH	5.00B	2.00A	
1760	----	----	*2.05A	----	2.05-	15	.013	----	----	1	UNCH	5.25B	2.05A	
1790	----	----	*2.30A	----	2.30-	15	.015	----	----	9	UNCH	6.00B	2.30A	
1800	----	----	*2.40A	----	2.40-	15	.016	----	----	90	UNCH	6.25B	2.40A	
1810	----	----	*2.50A	----	2.50-	15	.017	----	----	4511	UNCH	6.50B	2.50A	
1820	----	----	*2.55A	----	2.60-	15	.017	----	----	1	UNCH	6.75B	2.55A	
1825	----	----	*2.60A	----	2.65-	20	.018	----	----	150	UNCH	6.75B	2.60A	
1830	----	----	*2.70A	----	2.70-	20	.018	----	----	40	UNCH	7.00B	2.70A	
1860	----	----	*3.00A	----	3.05-	20	.021	----	----	1	UNCH	8.00B	3.00A	
1870	----	----	*3.15A	----	3.15-	25	.022	----	----	1	UNCH	8.25B	3.15A	
1875	----	----	*3.20A	----	3.20-	25	.022	----	----	1	UNCH	8.50B	3.20A	
1900	----	----	*3.55A	----	3.55-	25	.025	----	2	119 +	2	9.25	3.55A	
1910	----	----	*3.70A	----	3.70-	30	.026	----	----	1056	UNCH	9.75B	3.70A	
1920	----	----	*3.85A	----	3.85-	30	.027	----	----	37	UNCH	10.00B	3.85A	
1925	----	----	*3.90A	----	3.95-	25	.028	----	----	1	UNCH	10.25B	3.90A	
1930	----	----	*4.00A	----	4.05-	25	.029	----	----	23	UNCH	10.50B	4.00A	
1940	----	----	4.15A	----	4.20-	30	.030	----	----	27	UNCH	11.00B	4.15	
1950	4.85	4.85	*4.35A	----	4.40-	25	.032	----	3	705 -	3	11.50B	4.35A	
1960	----	----	*4.55A	----	4.55-	30	.033	----	----	2	UNCH	12.00B	4.55A	
1970	----	----	*4.75A	----	4.75-	35	.035	----	----	3	UNCH	12.50B	4.75A	
1975	----	----	*4.85A	----	4.85-	35	.036	----	----	111	UNCH	12.75B	4.85A	
1980	----	----	*4.95A	----	4.95-	35	.036	----	----	713	UNCH	13.00B	4.95A	
1990	----	----	*5.25A	----	5.20-	30	.038	----	----	1	UNCH	13.50B	5.25A	
2000	----	----	*5.50A	----	5.40-	30	.040	----	----	53	UNCH	14.00B	5.50A	
2010	----	----	*5.75A	----	5.70-	30	.042	----	----	1024	UNCH	14.75B	5.75A	
2020	----	----	*6.00A	----	5.90-	30	.044	----	----	3	UNCH	15.25B	6.00A	
2025	----	----	*6.00A	----	6.10-	30	.046	----	----	15	UNCH	15.50B	6.00A	
2030	----	----	*6.25A	----	6.20-	30	.047	----	----	1716	UNCH	16.00B	6.25A	
2040	----	----	*6.50A	----	6.50-	30	.049	----	----	2	UNCH	16.50B	6.50A	
20														



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PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS								Mon, Jul 24, 2017				PG48
2220	----	16.25B	*15.25A	----	15.30-	80	.124	----	----	1061	UNCH	34.75B	15.25A	
2225	----	16.75B	*15.50A	----	15.70-	80	.127	----	----	517	UNCH	35.50B	15.50A	
2230	----	17.25B	*16.00A	----	16.10-	80	.131	----	----	86	UNCH	36.25B	16.00A	
2235	----	17.50B	*16.25A	----	16.50-	80	.134	----	----	3	UNCH	36.00B	16.25A	
2240	17.75	18.00B	*16.75A	----	16.90-	80	.138	----	30	38 +	30	38.00B	16.75A	
2245	----	18.50B	*17.25A	----	17.30-	80	.142	----	----	1	UNCH	37.75B	17.25A	
2250	----	19.00B	*17.75A	----	17.70-	90	.145	----	----	1653	UNCH	39.50B	17.75A	
2255	----	19.50B	*18.00A	----	18.20-	80	.149	----	----	3	UNCH	39.50B	18.00A	
2260	----	20.00B	*18.50A	----	18.70-	80	.154	----	----	18	UNCH	41.25B	18.50A	
2265	20.00	20.50B	*19.00A	----	19.10-	90	.157	----	12	94 +	12	41.25B	19.00A	
2270	19.50	21.00B	*19.50	----	19.60-	90	.162	----	4	32	UNCH	43.25	19.50	
2275	20.75	21.50B	*20.00A	----	20.10-	90	.166	----	55	508 +	49	44.00B	20.00A	
2280	----	22.00B	*20.50A	----	20.70-	90	.171	----	----	12	UNCH	45.00B	20.50A	
2285	----	22.75B	*21.00A	----	21.20-	90	.176	----	----	35	UNCH	45.00B	21.00A	
2290	----	23.25B	*21.50A	----	21.80-	90	.181	----	----	74	UNCH	47.00B	21.50A	
2295	----	23.75B	*22.25A	----	22.30-	100	.185	----	----	5	UNCH	47.00B	22.25A	
2300	----	24.50B	*22.75A	----	22.90-	100	.191	----	----	90	UNCH	49.25	22.75A	
2305	----	25.00B	*23.25A	----	23.60-	90	.196	----	----	146	UNCH	49.25B	23.25A	
2310	----	25.75B	*24.00A	----	24.20-	100	.202	----	----	1500	UNCH	51.25B	24.00A	
2315	----	26.50B	*24.50A	----	24.80-	100	.207	----	----	24	UNCH	51.75B	24.50A	
2320	----	27.25B	*25.25A	----	25.50-	100	.213	----	----	73	UNCH	53.75	25.25A	
2325	----	28.00B	*26.00A	----	26.20-	100	.219	----	----	122	UNCH	54.75B	26.00A	
2330	----	28.75B	*26.50A	----	26.90-	100	.225	----	----	32	UNCH	56.00B	26.50A	
2335	----	29.50B	*27.25A	----	27.70-	90	.232	----	----	4	UNCH	56.50B	27.25A	
2340	----	30.25B	*28.00A	----	28.40-	100	.238	----	2	49 -	2	58.50B	28.00A	
2345	----	31.00B	*28.75A	----	29.20-	100	.245	----	----	22	UNCH	59.25B	28.75A	
2350	----	31.75B	*29.50A	----	30.00-	100	.252	----	----	119	UNCH	61.25	29.50A	
2355	----	32.75B	*30.50A	----	30.80-	100	.259	----	----	2	UNCH	62.00B	30.50A	
2360	----	33.75B	*31.25A	----	31.70-	90	.266	----	----	28	UNCH	64.00	31.25A	
2365	----	34.50B	*32.25A	----	32.50-	100	.274	----	----	11	UNCH	65.00B	32.25A	
2370	----	35.50B	*33.00A	----	33.40-	100	.282	----	----	13	UNCH	67.00	33.00A	
2375	----	36.50B	*34.00A	----	34.40-	100	.290	----	----	42	UNCH	69.50	34.00A	
2380	----	37.50B	*35.00A	----	35.30-	110	.298	----	----	31	UNCH	70.00B	35.00A	
2385	----	38.50B	*36.00A	----	36.30-	110	.307	----	60	80 +	60	71.50B	36.00A	
2390	----	39.75B	*37.00A	----	37.40-	100	.316	----	----	666	UNCH	74.25	37.00A	
2395	----	40.75B	*38.00A	----	38.50-	100	.325	----	----	9	UNCH	75.00B	38.00A	
2400	----	42.00B	*39.00A	----	39.60-	100	.334	----	----	492	UNCH	77.75	39.00A	
2405	----	43.25B	*40.25A	----	40.80-	100	.344	----	----	10	UNCH	78.75B	40.25A	
2410	----	44.50B	*41.50A	----	42.00-	100	.354	----	----	33	UNCH	81.50	41.50A	
2415	----	45.75B	*42.75A	----	43.30-	100	.364	----	----	2	UNCH	82.50B	42.75A	
2420	----	47.00B	*44.00A	----	44.60-	100	.375	----	2	142	UNCH	85.25	44.00A	
2425	----	48.50B	*45.25A	----	45.90-	100	.386	----	----	55	UNCH	87.25	45.25A	
2430	----	50.00B	*46.50A	----	47.30-	100	.397	----	----	20	UNCH	88.75B	46.50A	
2435	----	51.50B	*48.00A	----	48.70-	100	.408	----	----	30	UNCH	91.00B	48.00A	
2440	----	53.00B	*49.50A	----	50.20-	100	.420	----	----	119	UNCH	93.25B	49.50A	
2445	----	54.50B	*51.00A	----	51.70-	100	.432	----	----	71	UNCH	95.50B	51.00A	
2450	----	56.25B	*52.50A	----	53.30-	100	.445	----	----	41	UNCH	98.00B	52.50A	
2455	55.25	58.00B	*54.25A	----	54.90+	NEW	.457	----	1	1 +	1	100.25B	54.25A	
2460	----	59.75B	56.00A	----	56.60-	110	.471	----	----	22	UNCH	102.50B	56.00A	
2465	----	61.50B	57.75A	----	58.40-	100	.484	----	----	4	UNCH	105.00B	57.75A	
2470	----	63.50B	59.50A	----	60.30-	90	.498	----	----	16	UNCH	107.75B	59.50A	
2475	----	65.25B	61.25A	----	62.20-	90	.512	----	----	18	UNCH	110.50B	61.25A	
2485	----	74.00B	69.75A	----	70.80-	50	.571	----	----	32	UNCH	122.00B	69.75A	
2500	----	76.00B	72.00A	----	73.10-	50	.586	----	----	16	UNCH	125.00B	72.00A	
2510	----	81.00B	77.00A	----	78.00-	40	.617	----	----	16	UNCH	131.25B	77.00A	
2520	----	86.25B	82.25A	----	83.20-	40	.649	----	----	3	UNCH	138.00B	82.25A	
3000	----	----	----	----	531.60+	90	.997	----	----	1	UNCH	----	81.25A	
TOTAL	----	----	----	----	----	----	----	----	212	29750 +	188	----	----	
DEC17	EOM EMINI S&P P	----	----	----	.15	UNCH	.000	----	----	3	UNCH	.15B	----	
950	----	----	----	----	.20	UNCH	.000	----	----	1	UNCH	----	----	
1000	----	----	----	----	.40-	10	.001	----	----	70	UNCH	.60	.45A	
1200	----	----	*.45A	----	.45-	10	.002	----	10	50 +	10	----	.50A	
1225	----	----	*.50A	----	.70-	10	.003	----	----	3	UNCH	1.05B	.75A	
1350	----	----	*.75A	----	.75-	10	.003	----	----	2	UNCH	1.20B	.80A	
1375	----	----	*.80A	----	.85-	5	.004	----	----	70	UNCH	1.35B	1.20A	
1400	----	----	----	----	.90-	10	.004	----	10	50 +	10	1.50B	.95A	
1425	----	----	*.95A	----	1.00-	5	.005	----	----	1	UNCH	1.65B	1.00	
1450	----	----	----	----	1.05-	10	.005	----	----	2	UNCH	1.85B	1.25A	
1475	----	----	----	----	1.15-	10	.006	----	----	1	UNCH	2.05B	1.15	
1500	----	----	----	----	1.30-	5	.007	----	----	3	UNCH	2.30B	1.35A	
1525	----	----	----	----	1.65-	10	.009	----	----	1	UNCH	3.10B	1.70A	
1600	----	----	*1.70A	----	1.80-	10	.010	----	----	1	UNCH	3.40B	1.85A	
1625	----	----	*1.85A	----	2.05-	10	.012	----	----	2	UNCH	3.95B	2.10A	
1660	----	----	*2.10A	----	2.40-	15	.014	----	----	2	UNCH	4.65B	2.40A	
1700	----	----	*2.40A	----	2.50-	15	.015	----	----	1	UNCH	4.80B	2.50A	
1710	----	----	*2.50A	----	2.65-	15	.016	----	----	70	UNCH	5.00B	2.65A	
1725	----	----	*2.65A	----	2.80-	15	.017	----	----	1	UNCH	5.25B	2.80A	
1740	----	----	*2.80A	----	3.10-	20	.019	----	----	180	UNCH	6.00B	3.15A	
1770	----	----	*3.15A	----	3.25-	20	.020	----	----	30	UNCH	6.25B	3.25A	
1780	----	----	*3.25A	----	3.50-	20	.021	----	5	36 +	5	6.75B	3.50	
1800	3.50	3.65B	*3.50	----	3.65-	20	.022	----	----	3006	UNCH	7.00B	3.65A	
1810	----	----	*3.65A	----	3.80-	20	.023	----	----	30	UNCH	7.50B	3.80A	
1820	----	----	*3.80A	----	3.85-	25	.024	----	8	70 +	8	7.50B	3.85A	
1825	3.90	3.90	*3.85A	----	4.60-	30	.029	----	----	1	UNCH	9.00B	4.65A	
1870	----	----	*4.65A	----	4.70-	30	.030	----	----	1	UNCH	9.25B	4.70A	
1875	----	----	*4.70A	----	4.80-	30	.030	----	----	1	UNCH	9.50B	4.80A	
1880	----	----	*4.80A	----	5.20-	40	.033	----	----	3	UNCH	10.25B	5.25A	
1900	----	----	*5.25A	----	5.40-	40	.035	----	----	500	UNCH	10.75B	5.50A	
1910	----	----	*5.50A	----	5.60-	40	.036	----	----	9	UNCH	11.25B	5.75A	
1920	----	----	*5.75A	----	5.80-	40	.037	----	----	10	UNCH	11.25B	5.75A	
1925	----	----	*5.80A	----	6.10-	50	.040	----	----	150	UNCH	12.00B	6.25A	
1940	----	----	*6.25A	----	6.40-	40	.042	----	----	455	UNCH	12.50B	6.50A	
1950	----	----	*6.50A	----	6.70-	40	.044	----	4	10 -	1	13.00B	6.75A	
1960	7.00	7.00	*6.75A	----	6.90-	50	.045	----	6	18 +	6	13.75B	7.00	
1970	7.00	7.00	*7.00	----	7.10-	50	.047	----	----	1	UNCH	14.00B	7.25A	
1975	----	----	*7.25A	----	7.20-	50	.047	----	----	4	UNCH	14.25B	7.25A	
1980	----	----	*7.25A	----	7.50-	60	.050	----	----	2	UNCH	14.75B	7.75A	
1990	----	----	*7.75A	----	7.90-	50	.052	----	----	16	UNCH	15.50B	8.00A	
2000	----	----	*8.00A	----	8.20-	50	.055	----	----	500	UNCH	16.00B	8.25A	
2010	----	----	*8.25A	----	8.60-	50	.057	----	----	3	UNCH	16.75B	8.75A	
2020	----	----	*8.75A	----	9.70+	NEW	.066	----	3	3 +	3	19.00B	9.75A	
2050	10.25	10.25	*9.75A	----	10.60+	NEW	.072	----	1	1 +	1	20.50B	10.75A	
2070	----	----	*10.75A	----	10.80-	70	.074	----	----	20	UNCH	21.00B	11.00A	
2075	----	----	*11.00A	----	11.10-	60	.076	----	----	2	UNCH	21.50B	11.25A	
2080	----	----	*11.25A	----	12.10-	60	.083	----	----	112				



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PG48	BULLETIN #140@	E-MINI S&P 500 PUT OPTIONS								Mon, Jul 24, 2017				PG48
2425	----	58.25B	*55.00A	----	55.70-	100	.400	----	----	28	UNCH	92.25B	55.00A	
2430	----	59.75B	*56.50A	----	57.20-	100	.410	----	----	1	UNCH	94.25B	56.50A	
2440	----	63.00B	*59.50A	----	60.20-	110	.431	----	----	51	UNCH	98.75B	59.50A	
2450	----	66.25B	62.75A	----	63.40-	110	.452	----	----	236	UNCH	103.25B	62.75A	
2470	----	73.50B	69.75A	----	70.80-	70	.498	----	----	47	UNCH	113.25B	69.75A	
2475	----	75.50B	71.75A	----	72.70-	70	.510	----	----	117	UNCH	115.75B	71.75A	
2480	----	77.50B	73.75A	----	74.70-	70	.523	----	----	135	UNCH	118.50B	73.75A	
2500	----	86.50B	82.25A	----	83.40-	70	.574	----	----	6	UNCH	130.00B	82.00A	
3000	----	----	----	----	532.90+	90	.995	----	----	1	UNCH	----	----	
3600	----	----	----	----	1129.70+	100	.998	----	----	3	UNCH	----	----	
TOTAL										57	12258 +	50		

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--	
MINI S&P P	MINI S&P P	MINI S&P P	(FUTURES SETT. .00)									HIGH	LOW
JUL17										0	0		
AUG17													
500							CAB				398	UNCH	.05 .05
800							CAB				24	UNCH	.10 .05
1025							CAB				433	UNCH	.10B .10A
1125							CAB				18	UNCH	.20B .05A
1250							CAB				9	UNCH	.35B .20A
1350							CAB				19	UNCH	.55B .20A
1375							CAB				273	UNCH	.65B .10A
1390							CAB				156	UNCH	.65B .10
1400							CAB				219	UNCH	.75B .05
1410							CAB				91	UNCH	.70B .15
1420							CAB				1923	UNCH	.80B .15A
1425							CAB				666	UNCH	.75B .15A
1430							CAB				3	UNCH	.75B .15
1440							CAB				121	UNCH	.85 .15
1450							CAB				1788	UNCH	.85B .05
1460							CAB				216	UNCH	.90B .15
1470							CAB				1011	UNCH	.90B .10
1475							CAB				1104	UNCH	.95B .05
1480							CAB				1696	UNCH	.95B .15
1490							CAB				876	UNCH	1.00B .05
1500							CAB				2000	UNCH	1.05B .05
1510							CAB	.000			4183	UNCH	1.10B .10
1520							CAB	.000			1014	UNCH	1.15B .05
1525							CAB	.000			771	UNCH	1.15B .05
1530							CAB	.000			1042	UNCH	1.20B .05
1540							CAB	.000			2910	UNCH	1.20B .05
1550							CAB	.05+	0.05		4611	UNCH	1.30B .15
1560							CAB	.05+	0.05		2433	UNCH	1.35B .15
1570							CAB	.05+	0.05		4046	UNCH	1.40B .10
1575							CAB	.05+	0.05		3228	UNCH	1.40B .05
1580							CAB	.05+	0.05		1491	UNCH	1.45B .20
1590							CAB	.05+	0.05		211	UNCH	1.50B .20
1600	.05		.05	*.05			CAB	.05+	0.05	140	1779	UNCH	1.55B .05
1610							CAB	.05+	0.05		713	UNCH	1.65B .20
1620							CAB	.05+	0.05		1052	UNCH	1.70B .15
1625							CAB	.05+	0.05		736	UNCH	1.75B .10
1630	.05		.05	*.05			CAB	.05+	0.05	20	1221	UNCH	1.75B .05
1640							CAB	.05+	0.05		645	UNCH	1.85B .20
1650							CAB	.05 UNCH	.000		3715	UNCH	1.90 .10
1660							CAB	.05 UNCH	.000		1105	UNCH	2.00B .15
1670							CAB	.05 UNCH	.000		831	UNCH	2.10B .10A
1675							CAB	.05 UNCH	.000		193	UNCH	2.10B .10
1680							CAB	.05 UNCH	.000		1670	UNCH	2.15B .10
1690							CAB	.05-	0.05		503	UNCH	2.25B .15
1700							CAB	.05-	0.05		3372	UNCH	2.35B .15
1710							CAB	.05-	0.05		1472	UNCH	2.45B .10
1720							CAB	.10 UNCH	.000		1353	UNCH	2.55B .15
1725							CAB	.10 UNCH	.000		2794	UNCH	2.60B .15
1730							CAB	.10 UNCH	.000		1734	UNCH	2.65B .10
1740							CAB	.10 UNCH	.000		765	UNCH	2.75B .15
1750							CAB	.10 UNCH	.001		2170	UNCH	2.85B .15
1760							CAB	.10 UNCH	.001		2624	UNCH	2.95B .10
1770							CAB	.10 UNCH	.001		2290	UNCH	3.10B .10
1775							CAB	.10 UNCH	.001		1377	UNCH	3.15B .10
1780							CAB	.10 UNCH	.001		1903	UNCH	3.20B .10
1790	.10		.10	*.10			CAB	.10 UNCH	.001	221	1028 +	100	3.35B .10
1800	.10		.10	*.10			CAB	.10 UNCH	.001	255	22364 +	5	3.70B .10
1810	.10		.10	*.10			CAB	.10-	0.05	220	1287 +	120	3.65B .10
1820				*.10A			CAB	.10-	0.05		1726	UNCH	4.05B .10A
1825				*.10A			CAB	.10-	0.05		1906	UNCH	3.85B .10A
1830	.15		.15	*.10			CAB	.10-	0.05	228	1839 +	228	3.95B .10
1840	.10		.10	*.10			CAB	.15 UNCH	.001	227	2202 +	24	4.40B .10
1850	.10		.10	*.10			CAB	.15-	0.05	82	13432 +	79	4.65B .10
1860	.10		.10	*.10			CAB	.15-	0.05	2	2880 +	2	4.80B .10
1870	.15		.15	*.10			CAB	.15-	0.05	126	2937 +	118	5.00B .10
1875				*.15A			CAB	.15-	0.05		1395	UNCH	4.80B .15
1880	.15		.15	*.15			CAB	.15-	0.05	651	1441 +	412	5.25B .15
1890	.10		.15	*.10			CAB	.15-	0.05	601	2074 +	592	5.50B .10
1900	.15		.15	*.15			CAB	.15-	0.05	3725	27832 +	3468	5.75B .15
1910	.15		.15	*.15			CAB	.15-	0.10	3720	5193 +	3718	6.00B .15
1920	.15		.15	*.15			CAB	.15-	0.10	4870	5376 +	4755	6.25B .15
1925	.15		.15	*.15			CAB	.15-	0.10	4761	6509 +	4674	6.50B .15
1930	.15		.15	*.15			CAB	.15-	0.10	3195	4190 +	2984	6.50B .15
1940	.15		.15	*.15			CAB	.15-	0.10	2	3318 +	2	6.75B .15
1950	.20		.20	*.20			CAB	.20-	0.05	73	3164 +	31	7.25B .20
1960	.20		.20	*.15			CAB	.20-	0.05	560	2863 +	550	7.50B .15
1970	.20		.20	*.20			CAB	.20-	0.10	2010	2874 +	2000	8.00B .20
1975	.20		.25	*.20			CAB	.20-	0.10	2680	2993 +	2009	8.00B .20
1980	.25		.25	*.20			CAB	.20-	0.10	2950	5406 +	1044	8.25B .20
1985				*.25A			CAB	.20-	0.10		1261	UNCH	3.05B .25A
1990	.25		.25	*.25			CAB	.25-	0.05	901	2243 +	891	8.75B .25
2000	.35		.35	*.25			CAB	.25-	0.05	3610	12234 +	3587	9.25B .25
2010	.40		.40	*.30			CAB	.25-	0.10	893	2403 +	891	9.50B .30
2020				*.30A			CAB	.30-	0.05		1531	UNCH	10.00B .30A
2025	.30		.30	*.30			CAB	.30-	0.05	73	1429 +	9	10.25B .30
2030	.30		.30	*.30			CAB	.30-	0.05	11	3769 +	11	10.50B .30
2040				*.35A			CAB	.30-	0.10		1493	UNCH	11.25B .35A
2050	.35		.35	*.30			CAB	.35-	0.05	161	7740 +	157	11.75B .30
2060	.35		.35</										



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PG48	BULLETIN #140@				E-MINI S&P 500 PUT OPTIONS				Mon, Jul 24, 2017				PG48
2240	1.30	1.30	*1.10	----	1.20-	0.20	.023	----	643	9208 +	272	32.25B	1.10
2245	1.30	1.35	*1.20	----	1.25-	0.20	.024	----	297	2045 -	84	33.25B	1.20
2250	1.50	1.50	*1.25A	----	1.30-	0.20	.025	----	928	6777 -	99	34.25B	1.25A
2255	----	----	*1.30A	----	1.35-	0.20	.026	----	----	4833	UNCH	35.25B	1.30A
2260	1.50	1.50	*1.35A	----	1.40-	0.20	.027	----	17	8274	UNCH	36.25B	1.35A
2265	1.50	1.55B	*1.40A	----	1.45-	0.20	.029	----	222	2207 +	22	37.25B	1.40A
2270	1.90	1.90	*1.45	----	1.50-	0.20	.030	----	787	3478 +	436	38.25B	1.45
2275	1.55	1.55	*1.50A	----	1.55-	0.25	.031	----	444	4934 +	408	39.50B	1.50A
2280	1.70	1.75	*1.55	----	1.65-	0.20	.034	----	348	9313 +	230	40.75B	1.55
2285	1.80	2.00B	*1.60	----	1.70-	0.25	.035	----	185	1781 +	152	41.75B	1.60
2290	2.00	2.05B	*1.70A	----	1.75-	0.25	.037	----	446	7485 +	95	43.00B	1.70A
2295	2.05	2.15B	*1.75A	----	1.80-	0.30	.038	----	110	2333 +	5	44.50B	1.75A
2300	2.30	2.30	*1.75	----	1.85-	0.35	.040	----	1559	11116 +	59	45.75B	1.75
2305	2.20	2.35B	*1.90A	----	1.90-	0.35	.042	----	135	2656 +	135	47.25B	1.90A
2310	2.20	2.45B	*1.90	----	2.00-	0.35	.044	----	33	2097 -	24	48.50B	1.90
2315	2.45	2.55B	*2.00	----	2.10-	0.35	.047	----	191	4971 +	110	50.00B	2.00
2320	2.50	2.70B	*2.10	----	2.20-	0.35	.050	----	143	3721 +	12	51.75B	2.10
2325	2.75	2.80B	*2.15	----	2.25-	0.30	.053	----	991	6315 +	552	53.25B	2.15
2330	2.70	2.95B	*2.35A	----	2.45-	0.35	.056	----	191	7292 -	48	55.00B	2.35A
2335	2.80	3.10B	*2.45	----	2.55-	0.35	.059	----	51	2417	UNCH	56.75B	2.45
2340	3.20	3.25B	*2.50	----	2.65-	0.40	.063	----	283	4125 +	203	58.50B	2.50
2345	3.10	3.45B	*2.60	----	2.75-	0.50	.066	----	100	3694 +	28	60.25B	2.60
2350	3.40	3.60	*2.75	----	2.90-	0.50	.071	----	542	10168 +	444	62.25B	2.75
2355	3.45	3.80B	*2.95A	----	3.10-	0.45	.076	----	74	3154 +	66	64.25B	2.95A
2360	3.65	4.05	*3.10A	----	3.25-	0.50	.081	----	40	4562 -	3	66.00B	3.10A
2365	3.85	4.25B	*3.25A	----	3.45-	0.50	.087	----	371	2700 +	144	68.25B	3.25A
2370	4.35	4.50	*3.40	----	3.65-	0.50	.093	----	115	2871 -	51	70.25B	3.40
2375	4.30	4.75B	*3.60A	----	3.85-	0.55	.099	----	211	9080 -	54	72.50B	3.60A
2380	5.00	5.00	*3.80A	----	4.10-	0.55	.107	----	821	4139 +	116	74.75B	3.80A
2385	5.25	5.25	*4.05	----	4.35-	0.60	.115	----	503	4158 +	205	77.25B	4.05
2390	5.25	5.50B	*4.30	----	4.60-	0.70	.123	----	272	2492 +	119	79.75B	4.30
2395	5.75	6.00B	*4.60A	----	4.90-	0.70	.133	----	189	2943 +	17	82.50B	4.60A
2400	6.50	6.50	*4.95	----	5.20-	0.80	.143	----	1062	10083 +	520	85.00B	4.95
2405	6.50	7.00B	*5.50	----	5.60-	0.80	.155	----	23	2847 +	13	87.75B	5.50
2410	7.00	7.50B	*5.75	----	6.00-	0.80	.168	----	510	3983 -	60	90.75B	5.75
2415	7.50	8.00B	*6.25	----	6.50-	0.80	.184	----	165	4004 -	12	93.50B	6.25
2420	8.75	8.75	*6.75	----	7.00-	0.90	.200	----	756	3546 +	165	96.50B	6.75
2425	9.25	9.50B	*7.25	----	7.60-	0.90	.218	----	1352	5244 +	438	99.75B	7.25
2430	10.50	10.50	*7.75	----	8.30-	0.90	.239	----	1353	4217 +	440	103.00B	7.75
2435	11.00	11.00	*8.50A	----	9.10-	0.90	.263	----	428	2542 +	77	106.25B	8.50A
2440	10.50	12.00	*9.25	----	9.90-	1.00	.288	----	742	3300 +	295	109.75B	9.25
2445	12.75	13.25B	*10.25	----	10.90-	0.90	.317	----	275	2702 +	85	113.25B	10.25
2450	14.25	14.50B	*11.25A	----	12.00-	0.90	.349	----	193	4042 -	76	116.75B	11.25A
2455	14.75	16.00B	*12.50	----	13.20-	0.90	.384	----	388	1350 +	145	120.50B	12.50
2460	17.00	17.50B	*13.75	----	14.60-	0.90	.423	----	1483	2653 +	1097	124.50B	13.75
2465	18.00	19.50B	*15.25	----	16.20-	0.90	.465	----	382	1150 +	38	128.50B	15.25
2470	20.00	21.50B	*17.25	----	18.10-	0.90	.511	----	516	830 +	68	132.50B	17.25
2475	21.25	23.75B	*19.25A	----	20.20-	0.90	.560	----	410	757 +	139	136.75B	19.25A
2480	24.00	26.25B	21.75A	----	22.70-	0.80	.611	----	17	255 +	3	140.75B	21.50A
2485	28.75	29.00B	24.50A	----	25.50-	0.60	.662	----	4	16 -	4	145.25B	24.00A
2490	31.50	32.50B	27.50A	----	28.60-	0.40	.712	----	7	270 -	1	149.50B	26.50A
2495	----	36.00B	30.75A	----	32.00-	0.20	.760	----	----	232	UNCH	154.00B	29.25A
2500	----	40.00B	34.50A	----	35.80+	0.10	.802	----	----	436	UNCH	158.50B	32.50A
2510	----	48.25B	42.50A	----	44.00+	0.40	.873	----	----	7	UNCH	167.75B	39.50A
2515	----	52.75B	46.75A	----	48.40+	0.50	.898	----	----	4	UNCH	172.50B	43.25A
2520	----	57.50B	51.25A	----	53.00+	0.70	.920	----	----	37	UNCH	177.25B	47.25A
2525	----	62.00B	56.00A	----	57.60+	0.70	.936	----	----	5	UNCH	182.00B	51.75A
2530	----	66.75B	60.75A	----	62.40+	0.80	.949	----	----	13	UNCH	187.00B	56.00A
2535	----	71.75B	65.50A	----	67.20+	0.80	.960	----	----	3	UNCH	191.75B	60.75A
2540	74.50	76.50B	70.50A	----	72.10+	0.90	.967	----	1	12 -	1	196.50B	65.50A
2545	----	81.50B	75.25A	----	77.00+	0.90	.972	----	----	6	UNCH	194.75B	70.25A
2550	----	85.50B	----	----	81.90+	0.90	.976	----	----	196	UNCH	197.25B	75.00A
2555	----	----	----	----	86.90+	1.00	.979	----	----	5	UNCH	199.75B	79.75A
2560	----	----	----	----	91.80+	0.90	.982	----	----	6	UNCH	196.75B	84.75A
2565	----	----	----	----	96.80+	1.00	.985	----	----	5	UNCH	200.25B	89.75A
2570	----	----	----	----	101.80+	1.00	.986	----	----	2	UNCH	198.00B	96.25A
2575	----	----	----	----	106.70+	0.90	.988	----	----	1	UNCH	212.00B	125.00A
2580	----	----	----	----	111.70+	0.90	.989	----	----	3	UNCH	206.75B	130.00A
2585	----	----	----	----	116.70+	1.00	.989	----	----	4	UNCH	211.50B	134.75A
2590	----	----	----	----	121.70+	1.00	.992	----	----	1	UNCH	216.50B	139.75A
2595	----	----	----	----	126.70+	1.00	.992	----	----	1	UNCH	221.25B	144.75A
2600	----	----	----	----	131.60+	0.90	.992	----	----	4	UNCH	226.25B	154.00A
2610	----	----	----	----	141.60+	1.00	.992	----	----	3	UNCH	233.75B	167.75A
2615	----	----	----	----	146.60+	1.00	.995	----	----	3	UNCH	238.25B	172.50A
TOTAL	----	----	----	----	----	----	----	----	63475	567759 +	0519	----	----
OCT17	EOW3	MINI S&P P	(FUTURES SETT. .00)	----	CAB	----	----	----	----	6	UNCH	.05	.05
800	----	----	----	----	.05	UNCH	.000	----	----	1	UNCH	.15	.10A
1125	----	----	----	----	.05-	0.05	.000	----	----	1	UNCH	.25B	.15A
1200	----	----	----	----	.10-	0.05	.000	----	----	2	UNCH	.40B	.20A
1275	----	----	----	----	.15-	0.05	.000	----	----	154	UNCH	.45	.25A
1300	----	----	----	----	.20-	0.05	.001	----	----	319	UNCH	.50	.25A
1325	----	----	----	----	.20-	0.05	.001	----	----	32	UNCH	.55	.25
1350	----	----	----	----	.25-	0.05	.001	----	----	50	UNCH	.60B	.25
1375	----	----	----	----	.30	UNCH	.001	----	12	12	UNCH	.65B	.25
1390	.25	.25	*.25	----	.30	UNCH	.001	----	1	273	UNCH	.70B	.25
1400	.25	.25	*.25	----	.35	UNCH	.002	----	----	25	UNCH	.80B	.40A
1425	----	----	----	----	.35	UNCH	.002	----	----	171	UNCH	.85	.45A
1440	----	----	----	----	.35	UNCH	.002	----	----	35	UNCH	.85B	.45
1450	----	----	----	----	.35	UNCH	.002	----	----	264	UNCH	.90B	.40
1460	----	----	----	----	.35	UNCH	.002	----	----	60	UNCH	.95B	.50A
1470	----	----	----	----	.35-	0.05	.002	----	----	16	UNCH	1.00B	.50A
1475	----	----	----	----	.35-	0.05	.002	----	----	232	UNCH	1.00B	.50
1480	----	----	----	----	.35-	0.05	.002	----	----	285	UNCH	1.05B	.40
1490	----	----	----	----	.40	UNCH	.002	----	10	144 +	10	1.30	.40
1500	.40	.40	.40	----	.40-	0.05	.002	----	----	35	UNCH	1.15B	.45
1510	----	----	----	----	.45	UNCH	.002	----	----	438	UNCH	1.20B	.50
1520	----	----	----	----	.45	UNCH	.003	----	----	394	UNCH	1.20B	.50
1525	----	----	----	----	.50	UNCH	.003	----	----	20	UNCH	1.25B	.65A
1530	----	----	----	----	.50	UNCH	.003	----	----	42	UNCH	1.30B	.45
1540	----	----	----	----	.55+	0.05	.003	----	----	464	UNCH	1.35B	.55
1550	----	----	----	----	.55	UNCH	.003	----	----	290	UNCH	1.40B	.55
1560	----	----	----	----	.55	UNCH	.003	----	----	438	UNCH	1.50B	.60
1570	----	----	----	----	.55	UNCH							



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Table with columns: PG48, BULLETIN #140@, E-MINI S&P 500 PUT OPTIONS, Mon, Jul 24, 2017, PG48. Contains multiple columns of numerical data representing option prices and volumes.



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PG48 BULLETIN #140@ E-MINI S&P 500 PUT OPTIONS Mon, Jul 24, 2017 PG48

Table with columns for price, bid, ask, volume, and status. Includes rows for 2350, 2390, 2420, 2460, 2465, and TOTAL.

Table with columns for MDW MID, (FUTURES SETT. .00), and various price/volume data. Includes rows from 2130 to 2505 and a TOTAL row.

Table with columns for AUG17, MDW MID, (FUTURES SETT. .00), and various price/volume data. Includes rows from 2150 to 2505 and a TOTAL row.

Table with columns for MMW MID, (FUTURES SETT. .00), and various price/volume data. Includes rows from 2195 to 2485 and a TOTAL row.

Table with columns for AUG17, MMW MID, (FUTURES SETT. .00), and various price/volume data. Includes rows from 2150 to 2265.

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PG48	BULLETIN #140@			E-MINI S&P 500 PUT OPTIONS						Mon, Jul 24, 2017			PG48
2270	.40	.40	*.35A	----	.35-	0.10	.008	----	21	21 +	11	.65B	.35A
2275	.45	.45	*.40A	----	.40	NEW	.010	----	55	55 +	55	.70B	.40A
2280	----	----	*.40A	----	.40	NEW	.010	----	119	119 +	119	.75B	.40A
2285	.50	.50	*.40A	----	.40	NEW	.010	----	25	25 +	25	.80B	.40A
2295	.55	.55	*.45A	----	.45	NEW	.012	----	40	40 +	40	.85B	.45A
2300	.50	.55B	*.50	----	.50	NEW	.013	----	1	1 +	1	.90B	.50
2305	.60	.60	*.50A	----	.50	NEW	.014	----	35	35 +	35	.95B	.50A
2320	----	.80B	*.60A	----	.60-	0.15	.017	----	----	1	UNCH	1.60	.60A
2340	----	1.00B	*.80A	----	.75-	0.20	.023	----	103	103	UNCH	2.10	.80A
2350	.90	1.15B	*.90	----	.85-	0.20	.028	----	10	43 +	1	1.65B	.90
2355	----	1.25B	*.95A	----	.90-	0.25	.030	----	----	1	UNCH	1.65B	.95A
2370	----	1.50B	*1.10A	----	1.10-	0.25	.039	----	----	13	UNCH	3.05	1.10A
2375	----	1.60B	*1.20A	----	1.15-	0.30	.042	----	----	16	UNCH	3.25	1.20A
2380	----	1.75B	*1.25A	----	1.25-	0.30	.046	----	----	28	UNCH	3.40	1.25A
2385	----	1.90B	*1.35A	----	1.35-	0.30	.051	----	----	23	UNCH	2.60B	1.35A
2390	----	2.05B	*1.45A	----	1.45-	0.35	.056	----	----	5	UNCH	4.60	1.45A
2395	----	2.20B	*1.55A	----	1.60-	0.35	.063	----	----	1	UNCH	3.05B	1.55A
2400	----	2.45B	*1.65A	----	1.75-	0.35	.071	----	----	12	UNCH	3.35B	1.65A
2410	2.00	2.95B	*1.95A	----	2.10-	0.45	.089	----	5	7 +	5	4.00B	1.95A
2415	----	3.25B	*2.15A	----	2.30-	0.50	.100	----	----	40	UNCH	4.90B	2.15A
2420	2.50	3.65B	*2.40A	----	2.60-	0.50	.114	----	5	90	UNCH	4.85B	2.40A
2425	3.65	4.10B	*2.70A	----	2.90	NEW	.130	----	37	37 +	37	5.25B	2.70A
2430	4.05	4.65B	*3.05A	----	3.30-	0.55	.151	----	31	55 +	30	8.00	3.05A
2435	4.45	5.25B	*3.45A	----	3.75-	0.60	.174	----	153	172 +	151	6.75B	3.45A
2440	3.95	6.00B	*3.95	----	4.30-	0.60	.202	----	15	102 +	15	10.25	3.95
2445	6.00	7.00B	*4.60	----	5.00-	0.60	.236	----	82	61 -	12	8.75	4.60
2450	7.75	8.00B	*5.50	----	5.90-	0.60	.278	----	32	101 -	26	15.75	5.50
2455	----	9.50B	*6.50A	----	7.00-	0.60	.327	----	----	256	UNCH	14.00	6.50A
2460	8.75	11.00B	*7.75A	----	8.40-	0.50	.385	----	3	126 +	1	13.25B	7.75A
2465	----	13.00B	*9.25A	----	10.00-	0.50	.449	----	----	36	UNCH	15.25B	9.25A
2470	14.00	15.25B	*11.00A	----	12.10-	0.40	.521	----	10	71 +	10	17.00B	11.00A
2475	----	18.00B	*13.50A	----	14.50-	0.30	.596	----	----	22	UNCH	19.50B	13.50A
TOTAL									762	1902 +	581		
RTM EOM			(FUTURES SETT. .00)										
JUL17	RTM EOM				.10+	0.10	.001	----	----	1	UNCH	.55	.50A
1200	----				.20-	0.10	.005	----	----	9	UNCH	3.50B	.25A
1335	----		*.25A	----	.35-	0.10	.013	----	----	10	UNCH	4.20B	.35A
1340	----		*.35A	----	.40-	0.15	.017	----	----	5	UNCH	5.90B	.45A
1355	----		*.45A	----	.30-	0.20	.031	----	----	32	UNCH	6.10B	.30A
1360	----		*.30A	----	.45-	0.15	.020	----	----	21	UNCH	6.70B	.50A
1360	----		*.50A	----	.50-	0.20	.023	----	----	16	UNCH	7.60B	.55A
1365	----		*.55A	----	.30-	0.25	.012	----	----	7	UNCH	6.90B	.35A
1375	----		*.35A	----	.35-	0.25	.016	----	----	12	UNCH	9.00B	.40A
1385	----		*.40A	----	.75-	0.40	.042	----	----	5	UNCH	12.40B	.80A
1390	----		*.80A	----	.85-	0.45	.050	----	----	22	UNCH	14.00B	.90A
1390	----		*.90A	----	.50-	0.35	.028	----	----	19	UNCH	13.30B	.55A
1415	----	3.70B	*2.00A	----	2.05-	1.25	.152	----	----	14	UNCH	24.80B	2.00A
1420	----	3.75B	*1.75A	----	1.80-	1.35	.154	----	----	18	UNCH	27.20B	1.75A
1430	3.75	7.20B	*3.45A	----	3.70	NEW	.325	----	66	66 +	66	33.90B	3.45A
TOTAL									66	257 +	66		
AUG17	RTM EOM		(FUTURES SETT. .00)										
1170	----				.20+	0.05	.003	----	----	1	UNCH	.60B	.55
1200	----				.25+	0.05	.005	----	----	15	UNCH	.75	.65A
1210	----				.30+	0.10	.006	----	----	38	UNCH	.85	.60A
1210	----		.65A		.60-	0.10	.012	----	----	33	UNCH	2.05B	.65A
1220	----				.30+	0.05	.006	----	----	22	UNCH	.90	.55A
1230	----				.35+	0.10	.007	----	----	9	UNCH	1.10	.60A
1240	----		*.85A		.80-	0.10	.018	----	----	34	UNCH	2.40B	.85A
1240	----				.35+	0.05	.008	----	----	50	UNCH	1.30B	.50A
1250	----				.40+	0.10	.009	----	----	10	UNCH	1.25	.55A
1260	----				.40+	0.05	.010	----	----	18	UNCH	1.25	.60A
1270	----				.45+	0.05	.011	----	----	8	UNCH	1.85B	.50A
1285	----		*1.25A		1.20-	0.25	.031	----	----	1	UNCH	2.85B	1.25A
1290	----		*1.35A		1.25-	0.30	.032	----	----	1	UNCH	4.85B	1.35A
1300	----		*1.50A		1.40-	0.30	.037	----	----	1	UNCH	5.20B	1.50A
1350	----		*.95A		1.10-	0.10	.041	----	----	11	UNCH	6.80B	.95A
1355	----		*1.00A		1.15-	0.15	.044	----	----	6	UNCH	7.60B	1.00A
1370	----		*1.30A		1.40-	0.30	.059	----	----	10	UNCH	10.50B	1.30A
1380	----	4.05B	*3.05A		3.05-	0.70	.115	----	----	6	UNCH	6.80B	3.05A
1385	----	6.50B	5.10A		5.10-	1.00	.164	----	----	22	UNCH	19.90B	5.10A
1385	----	2.50B	*1.80A		1.90-	0.50	.088	----	----	5	UNCH	14.50B	1.80A
1390	----	2.85B	*2.00A		2.10-	0.60	.100	----	----	5	UNCH	16.20B	2.00A
1400	----	8.90B	6.80A		7.00-	1.20	.226	----	----	25	UNCH	25.60B	6.70A
1410	9.20	11.10B	8.50A		8.70	NEW	.281	----	1	1 +	1	30.20B	8.20A
1415	4.65	6.60B	*4.25A		4.65-	1.15	.235	----	8	13 +	8	26.90B	4.25A
1415	10.40	12.50B	9.60A		9.90	NEW	.314	----	2	2 +	2	32.10B	9.10A
1420	5.50	7.90B	*5.20A		5.60-	1.30	.282	----	3	20 +	3	29.80B	5.20A
1425	6.70	9.60B	6.30A		6.90-	1.30	.339	----	1	10 +	1	32.60B	6.30A
1425	13.10	15.80B	12.20A		12.60-	1.60	.390	----	2	43 +	2	37.70B	11.40A
1430	----	11.70B	7.70A		8.40-	1.50	.403	----	----	25	UNCH	36.20B	7.50A
1430	----	17.80B	13.80A		14.30-	1.60	.434	----	----	2	UNCH	40.50B	12.70A
1435	----	14.00B	9.50A		10.30-	1.60	.475	----	----	2	UNCH	39.70B	8.90A
TOTAL									17	449 +	17		
SEP17	RTM EOM		(FUTURES SETT. .00)										
1430	----	32.90B	30.10A	----	30.00-	1.40	.458	----	----	9	UNCH	54.00B	27.30A
TOTAL									0	9			
OCT17	RTM EOM		(FUTURES SETT. .00)										
1305	10.80	10.80	10.30A	----	10.00	NEW	.139	----	3	3 +	3	19.40B	9.40A
1315	11.90	11.90	11.30A	----	11.00	NEW	.153	----	2	2 +	2	21.30B	10.30A
1330	13.70	13.70	13.00A	----	12.70	NEW	.177	----	2	2 +	2	24.30B	11.90A
TOTAL									7	7 +	7		

E-MINI S&P 500 FIXING PRICE (ESF): Jun18 2468.58

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FINAL

PG48 BULLETIN #140@

E-MINI S&P 500 PUT OPTIONS

Mon, Jul 24, 2017 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
E-MINI S&P 500 OPTIONS							
EMINI S&P CALL SEP17 EZ	1750	----	----	----	----	16	0.00
EZ	1760	----	----	----	----	1	0.00
TOTALS		0	0	0	0	17	0
DECI17 EZ	1570	----	----	----	----	100	0.00
TOTALS		0	0	0	0	100	0
E-MINI S&P 500 MONDAY WEEKLY OPT							
MMW MID JUL17 E4A	2350	----	----	----	1	1	0.00
E4A	2410	----	----	----	2	2	0.00
E4A	2415	----	----	----	10	10	0.00
E4A	2420	----	----	----	14	14	0.00
E4A	2425	----	----	----	462	462	0.00
E4A	2430	----	----	----	16	16	0.00
E4A	2435	----	----	----	4	4	0.00
E4A	2440	----	----	----	738	738	0.00
E4A	2445	----	----	----	315	315	0.00
E4A	2450	----	----	----	254	254	0.00
E4A	2455	----	----	----	689	689	0.00
E4A	2460	----	----	----	526	526	0.00
E4A	2465	----	----	----	1351	1351	0.00
TOTALS		0	0	0	4382	4382	0
E-MINI S&P 500 MONDAY WEEKLY OPT							
MMW MID JUL17 E4A	2470	----	----	----	2169	2169	0.00
E4A	2475	----	----	----	43	43	0.00
E4A	2480	----	----	----	41	41	0.00
E4A	2485	----	----	----	1	1	0.00
TOTALS		0	0	0	2254	2254	0