



FINAL

PG48 BULLETIN #198@

E-MINI S&P 500 PUT OPTIONS

Fri, Oct 12, 2018 PG48

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

WK EW-W1 E-MINI S&P PUTS

Table with columns: STRIKE, OPEN RANGE, HIGH, LOW, CLOSING RANGE, SETT.PRICE & PT.CHGE., DELTA, EXER CISES, VOLUME TRADES CLEARED, OPEN INTEREST, --CONTRACT-- HIGH, LOW. Rows list various contract specifications and their corresponding market data.

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Table with columns: PG48, BULLETIN #198@, E-MINI S&P 500 PUT OPTIONS, Fri, Oct 12, 2018, PG48. Contains multiple columns of price and volume data for various S&P 500 put options.

WK EW-W2 E-MINI S&P PUTS

Table with columns: STRIKE, OPEN, RANGE, HIGH, LOW, CLOSING, RANGE, SETT. PRICE & PT. CHGE., DELTA, EXER CISES, VOLUME TRADES CLEARED, OPEN INTEREST, --CONTRACT-- HIGH, LOW. Lists specific option contracts and their market activity.



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Table with columns: PG48, BULLETIN #198@, E-MINI S&P 500 PUT OPTIONS, Fri, Oct 12, 2018, PG48. Contains multiple columns of market data including prices, volumes, and option specifications.

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WK EW-W4 E-MINI S&P PUTS

Table with columns: STRIKE, OPEN, RANGE, HIGH, LOW, CLOSING, RANGE, SETT. PRICE & PT. CHGE., DELTA, EXER CISES, VOLUME TRADES CLEARED, OPEN INTEREST, --CONTRACT-- HIGH, LOW. Contains detailed market data for E-mini S&P 500 puts.

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E-MINI S&P PUTS

Main table with columns: STRIKE, OPEN, RANGE, HIGH, LOW, CLOSING, RANGE, SETT. PRICE & PT. CHGE., DELTA, EXER, CISES, VOLUME TRADES CLEARED, OPEN INTEREST, --CONTRACT-- HIGH, LOW. Lists contract details for strikes from 100 to 2410.

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E-MINI S&P 500 PUT OPTIONS

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PG48 BULLETIN #198@ E-MINI S&P 500 PUT OPTIONS Fri, Oct 12, 2018 PG48

Table with columns for contract numbers (e.g., 2630, 2635, 2640), prices, and various market data points. Includes a 'TOTAL' row and a 'JUN19' section at the bottom.

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PG48	BULLETIN #198@	E-MINI S&P 500 PUT OPTIONS								Fri, Oct 12, 2018	PG48		
1900	16.00	19.25	14.25A	----	15.40-	150	.048	----	3	4267 +	2	24.50B	7.50A
1925	----	19.00B	15.25A	----	16.50-	170	.051	----	----	361	UNCH	26.25B	8.00A
1940	----	19.75B	16.00A	----	17.10-	190	.053	----	----	216	UNCH	27.25B	8.25A
1950	----	20.25B	16.25A	----	17.60-	190	.055	----	----	1015	UNCH	28.00B	8.50A
1960	----	20.75B	16.75A	----	18.10-	200	.057	----	----	480	UNCH	29.00B	8.75A
1970	23.00	23.00	17.25A	----	18.60-	210	.058	----	1	1007	UNCH	29.75B	9.00A
1975	21.75	21.75	17.50A	----	18.90-	200	.059	----	5	376	UNCH	30.00B	9.25A
1980	----	22.00B	17.75A	----	19.10-	210	.060	----	----	337	UNCH	30.50B	9.25A
1990	----	22.50B	18.25A	----	19.70-	210	.062	----	----	533	UNCH	31.25B	9.50A
2000	17.75	23.00B	17.75	----	20.20-	210	.063	----	1990	6823 +	1537	32.00B	9.75
2010	----	23.75B	19.25A	----	20.80-	210	.065	----	----	180	UNCH	32.75B	10.00
2020	----	24.25B	19.75A	----	21.30-	220	.067	----	----	198	UNCH	33.75B	10.25
2025	----	24.75B	20.00A	----	21.60-	220	.068	----	----	634	UNCH	34.25B	10.50A
2030	----	25.00B	20.25A	----	21.90-	220	.069	----	----	181	UNCH	34.50B	10.75A
2040	----	25.75B	20.75A	----	22.40-	230	.071	----	----	3300	UNCH	35.50B	11.00A
2050	----	26.50B	21.25A	----	23.00-	240	.073	----	----	640	UNCH	36.25B	11.25A
2060	----	27.25B	22.00A	----	23.60-	250	.075	----	----	851	UNCH	37.25B	11.50A
2070	----	28.00B	22.50A	----	24.30-	260	.077	----	----	204	UNCH	38.25B	12.00A
2075	----	28.25B	22.75A	----	24.70-	260	.078	----	----	769	UNCH	38.75B	12.00A
2090	----	29.50B	23.75A	----	25.70-	280	.081	----	----	121	UNCH	40.00B	12.50A
2100	----	30.25B	24.25A	----	26.30-	300	.083	----	----	916	UNCH	41.00B	13.00A
2110	----	31.00B	24.75A	----	27.00-	310	.086	----	----	371	UNCH	42.00B	13.25A
2120	----	31.75B	25.50A	----	27.60-	330	.088	----	----	406	UNCH	43.25B	13.75A
2125	----	32.25B	25.75A	----	28.00-	330	.089	----	----	211	UNCH	43.75B	13.75A
2130	----	32.50B	26.25A	----	28.30-	340	.090	----	----	417	UNCH	44.25B	14.00A
2140	----	33.50B	27.00A	----	29.00-	350	.093	----	----	361	UNCH	45.25B	14.50A
2150	----	34.25B	27.50A	----	29.70-	360	.095	----	----	1596	UNCH	46.50B	14.75A
2160	----	35.00B	28.25A	----	30.50-	360	.098	----	----	121	UNCH	47.50B	15.25A
2170	----	36.00B	29.00A	----	31.30-	370	.100	----	----	1160	UNCH	48.75B	15.75A
2175	----	36.50B	29.50A	----	31.70-	370	.102	----	----	647	UNCH	49.25B	15.75A
2180	----	37.00B	29.75A	----	32.10-	380	.103	----	----	128	UNCH	50.00B	16.00A
2190	----	37.75B	30.50A	----	32.90-	390	.106	----	----	302	UNCH	51.25B	16.50A
2200	39.50	39.50	31.50A	----	33.80-	400	.109	----	1268	5872 +	122	52.25B	17.00A
2210	----	39.75B	32.25A	----	34.60-	420	.111	----	----	131	UNCH	53.50B	17.50A
2220	----	40.75B	33.00A	----	35.50-	430	.114	----	----	903	UNCH	55.00B	17.75A
2225	----	41.25B	33.50A	----	36.00-	430	.116	----	----	453	UNCH	55.50B	18.00A
2230	----	41.75B	34.00A	----	36.40-	440	.118	----	----	144	UNCH	56.25B	18.25A
2240	----	42.75B	34.75A	----	37.30-	450	.121	----	----	303	UNCH	57.50B	18.75A
2250	35.50	44.00B	35.50	----	38.20-	470	.124	----	505	1518 +	70	59.00B	19.25A
2260	----	45.00B	36.50A	----	39.10-	490	.127	----	----	565	UNCH	60.25B	19.75A
2270	----	46.25B	37.50A	----	40.10-	490	.130	----	----	1	UNCH	61.75B	20.25A
2275	----	46.75B	38.00A	----	40.60-	500	.132	----	----	215	UNCH	62.50B	20.75A
2280	----	47.25B	38.50A	----	41.10-	510	.134	----	----	481	UNCH	63.25B	21.00A
2290	----	48.50B	39.50A	----	42.10-	520	.137	----	----	175	UNCH	64.50B	21.50A
2300	40.75	49.75B	40.50A	----	43.20-	530	.141	----	9	5781 -	15	66.00B	22.00A
2310	44.50	51.00B	41.50A	----	44.30-	540	.144	----	60	468	UNCH	67.75B	22.50A
2320	----	52.25B	42.75A	----	45.50-	550	.148	----	----	604	UNCH	69.25B	23.25A
2325	----	52.75B	43.25A	----	46.00-	560	.150	----	----	133	UNCH	70.00B	23.50A
2330	----	53.50B	43.75A	----	46.60-	570	.152	----	----	322	UNCH	70.75B	23.75A
2340	----	54.75B	45.00A	----	47.80-	580	.156	----	----	360	UNCH	72.50B	24.50A
2350	----	56.25B	46.00A	----	49.10-	580	.160	----	----	2172	UNCH	74.25B	25.00A
2360	----	57.75B	47.25A	----	50.30-	600	.165	----	----	286	UNCH	76.00B	25.75A
2370	----	59.00B	48.50A	----	51.60-	610	.169	----	----	103	UNCH	77.75B	26.50A
2375	----	59.75B	49.00A	----	52.20-	620	.171	----	----	27	UNCH	78.50B	26.75A
2380	----	60.50B	49.75A	----	52.90-	630	.173	----	----	61	UNCH	79.50B	27.25A
2390	----	62.00B	51.00A	----	54.20-	640	.178	----	----	128	UNCH	81.25B	27.75A
2400	53.75	65.00	52.25A	----	55.50-	670	.182	----	195	6160 +	110	83.25B	28.50A
2410	----	65.00B	53.50A	----	56.90-	680	.187	----	----	406	UNCH	85.00B	29.25A
2420	----	66.75B	55.00A	----	58.30-	700	.192	----	----	80	UNCH	87.00B	30.00A
2425	----	67.50B	55.75A	----	59.10-	700	.194	----	----	3009	UNCH	88.00B	30.50A
2430	----	68.25B	56.25A	----	59.80-	710	.197	----	----	291	UNCH	89.00B	31.00A
2440	----	70.00B	57.75A	----	61.30-	730	.202	----	----	60	UNCH	91.00B	31.75A
2450	64.75	71.75B	59.25A	----	62.80-	740	.207	----	64	3685	UNCH	93.00B	32.50A
2460	----	73.50B	60.75A	----	64.40-	760	.212	----	----	513	UNCH	95.00B	33.50A
2470	68.00	75.25B	62.25A	----	66.00-	770	.218	----	70	131 +	70	97.25B	34.25A
2475	----	76.25B	63.00A	----	66.90-	770	.221	----	----	706	UNCH	98.25B	34.75A
2480	----	77.25B	63.75A	----	67.70-	780	.223	----	----	261	UNCH	99.50B	35.25A
2490	----	79.00B	65.50A	----	69.40-	800	.229	----	----	553	UNCH	101.50B	36.00A
2500	72.75	81.00B	67.00A	----	71.10-	820	.235	----	509	3802 -	5	103.75B	37.00A
2510	----	83.00B	68.75A	----	72.90-	830	.241	----	----	1433	UNCH	106.25B	38.00A
2520	----	85.00B	70.50A	----	74.70-	850	.247	----	----	467	UNCH	108.50B	39.00A
2525	----	86.00B	71.50A	----	75.60-	870	.250	----	----	344	UNCH	109.75B	39.50A
2530	----	87.00B	72.50A	----	76.60-	870	.253	----	----	208	UNCH	111.00B	40.00A
2540	----	89.25B	74.25A	----	78.40-	900	.260	----	----	319	UNCH	113.50B	41.00A
2550	79.75	91.50B	76.00A	----	80.40-	910	.266	----	275	1794 -	169	118.00	42.00A
2560	----	93.50B	78.00A	----	82.40-	930	.273	----	----	101	UNCH	118.50B	43.25A
2570	----	96.00B	80.00A	----	84.40-	960	.280	----	----	887	UNCH	121.00B	44.25A
2575	95.00	97.00B	81.00A	----	85.40-	980	.283	----	110	354 +	72	122.50B	45.00A
2580	----	98.25B	82.00A	----	86.50-	980	.287	----	----	355	UNCH	123.75B	45.50A
2590	----	100.75B	84.25A	----	88.60-	1010	.294	----	----	144	UNCH	126.50B	46.75A
2600	90.25	103.25B	86.25A	----	90.80-	1030	.302	----	70	4805 +	10	129.25B	47.75
2610	----	105.75B	88.50A	----	93.00-	1060	.309	----	----	250	UNCH	132.25B	49.25A
2620	----	108.25B	90.75A	----	95.30-	1090	.317	----	----	249	UNCH	135.00B	50.50A
2625	----	109.50B	92.00A	----	96.50-	1100	.321	----	----	434	UNCH	136.50B	51.25A
2630	----	111.00B	93.25A	----	97.60-	1120	.325	----	----	305	UNCH	138.00B	52.00A
2640	----	113.75B	95.50A	----	100.10-	1140	.333	----	----	762	UNCH	141.00B	53.25A
2650	115.75	116.50B	98.00A	----	102.60-	1170	.341	----	2	2448 -	1	144.25B	54.75A
2660	----	119.25B	100.50A	----	105.10-	1210	.350	----	----	120	UNCH	147.50B	56.25A
2670	----	122.25B	103.25A	----	107.70-	1240	.359	----	----	324	UNCH	150.75B	57.50A
2675	110.50	123.75B	104.50A	----	109.10-	1240	.363	----	1	2853 -	1	152.25B	58.50A
2680	----	125.25B	105.75A	----	110.40-	1270	.367	----	----	81	UNCH	154.00B	59.25A
2690	----	128.25B	108.50A	----	113.20-	1290	.377	----	----	113	UNCH	157.25B	60.75A
2700	111.75	131.25B	111.25A	----	116.00-	1330	.386	----	630	6884 +	599	160.75B	62.25A
2710	----	134.50B	114.25A	----	119.00-	1350	.396	----	100	399 +	100	164.25B	64.00A
2720	----	138.00B	117.25A	----	122.00-	1380	.405	----	----	367	UNCH	168.00B	65.75A
2725	----	139.50B	118.75A	----	123.60-	1390	.410	----	----	1270	UNCH	169.75B	66.50A
2730	----	141.25B	120.25A	----	125.10-	1410	.415	----	----	246	UNCH	171.50B	67.5



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Table with columns: PG48, BULLETIN #198@, E-MINI S&P 500 PUT OPTIONS, Fri, Oct 12, 2018, PG48. Contains multiple rows of market data for S&P 500 put options, including strike prices, volumes, and prices.

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Table with columns for price, quantity, and other market data. Includes rows for various strike prices and quantities, ending with a TOTAL row.

Table with columns for EOM, EMINI, S&P, and P. Includes rows for various strike prices and quantities, ending with a TOTAL row.

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1990	----	2.95B	1.80A	----	1.80-	95	.011	----	1	281 +	1	10.25B	.80A
2000	1.90	3.40	1.80	----	1.90-	90	.011	----	12	541 -	8	10.75B	.85A
2010	4.10	4.10	1.90A	----	1.95-	95	.012	----	1	23 +	1	11.00B	.85A
2020	----	3.25B	1.95A	----	2.05-	90	.012	----	----	117	UNCH	11.50B	.90A
2025	----	3.30B	2.00A	----	2.05-	95	.012	----	----	313	UNCH	11.50B	.90A
2030	3.80	3.80	2.05A	----	2.10-	90	.013	----	2	304	UNCH	11.75B	.90A
2040	3.85	3.85	2.10A	----	2.20-	90	.014	----	1	118 +	1	12.25B	.90A
2050	2.30	3.60B	2.15A	----	2.25-	90	.014	----	10	890	UNCH	12.50B	.95A
2060	----	3.70B	2.25A	----	2.35-	95	.015	----	----	120	UNCH	13.00B	1.00A
2070	----	3.85B	2.30A	----	2.40-	100	.015	----	----	244	UNCH	13.50B	1.00A
2075	2.50	3.90B	2.35A	----	2.45-	100	.015	----	5	802	UNCH	13.50B	1.00A
2080	3.55	4.00B	2.40A	----	2.50-	105	.016	----	1	155 +	1	13.75B	1.05A
2090	3.25	4.10B	2.50A	----	2.60-	105	.017	----	1	97	UNCH	14.25B	1.05A
2100	3.40	5.00	2.55A	----	2.70-	110	.017	----	73	663 +	10	14.75B	1.10
2110	----	4.40B	2.65A	----	2.80-	110	.018	----	----	448	UNCH	15.25B	1.15A
2120	----	4.55B	2.75A	----	2.90-	115	.019	----	----	349	UNCH	15.75B	1.15A
2125	----	4.65B	2.80A	----	2.95-	120	.019	----	4	172	UNCH	16.00B	1.20A
2130	4.60	4.70B	2.80A	----	3.00-	120	.020	----	1	58 +	1	16.25B	1.20A
2140	----	4.90B	2.95A	----	3.15-	125	.021	----	----	270	UNCH	16.75B	1.25A
2150	3.25	5.00B	3.05A	----	3.25-	130	.021	----	2	614	UNCH	17.25B	1.25A
2160	----	5.25B	3.15A	----	3.40-	135	.023	----	----	93	UNCH	17.75B	1.30A
2170	----	5.25B	3.25A	----	3.55-	135	.024	----	10	607 +	10	18.50B	1.35A
2175	----	5.50B	3.30A	----	3.60-	140	.024	----	----	148	UNCH	18.75B	1.35A
2180	4.95	5.50	3.35A	----	3.65-	145	.024	----	3	3592	UNCH	19.00B	1.40
2190	----	5.75B	3.50A	----	3.80-	150	.026	----	3	111	UNCH	19.75B	1.45A
2200	6.25	6.25	3.65A	----	3.95-	155	.027	----	212	7101 +	126	20.25B	1.50
2210	----	6.25B	3.75A	----	4.10-	170	.028	----	1	31	UNCH	21.00B	1.50A
2220	----	6.50B	3.90A	----	4.25-	175	.029	----	2	301 +	2	21.75B	1.55A
2225	4.50	6.50B	4.00A	----	4.35-	175	.030	----	34	312 +	34	22.00B	1.60A
2230	----	6.75B	4.05A	----	4.45-	185	.031	----	1	100 +	1	22.25B	1.60A
2240	5.00	7.00B	4.20A	----	4.60-	190	.032	----	16	308 +	8	23.00B	1.70A
2250	4.75	8.25	4.40A	----	4.80-	200	.034	----	19	923 +	2	23.75B	1.70
2260	5.00	7.50B	4.60A	----	5.00-	200	.035	----	19	298	UNCH	24.50B	1.80A
2270	----	7.75B	4.75A	----	5.30-	200	.037	----	65	231 +	58	25.50B	1.85A
2275	5.25	8.00B	4.85A	----	5.40-	200	.038	----	6	5775 +	6	25.75B	1.85A
2280	----	8.00B	4.95A	----	5.50-	210	.039	----	11	455	UNCH	26.25B	1.90A
2290	7.50	8.50B	5.25A	----	5.80-	210	.041	----	16	254 +	7	27.00B	1.95A
2300	6.50	10.00	5.50	----	6.00-	220	.043	----	325	2377 +	101	28.00B	2.00
2310	----	9.25B	5.75A	----	6.30-	230	.045	----	11	364	UNCH	28.75B	2.10
2320	----	9.50B	6.00A	----	6.50-	250	.047	----	33	441 +	8	29.75B	2.15A
2325	6.50	11.00	6.00A	----	6.70-	250	.048	----	7	180 -	4	30.25B	2.20A
2330	11.75	11.75	6.25A	----	6.80-	260	.049	----	344	631 +	201	30.75B	2.25A
2340	6.25	10.50B	6.25	----	7.10-	270	.052	----	170	234 +	61	31.75B	2.30A
2345	11.50	#11.50	*7.50A	----	7.20+	NEW	.053	----	70	70 +	70	11.50	7.50A
2350	7.00	12.00	6.75A	----	7.40-	290	.054	----	55	1571 -	7	32.75B	2.40A
2360	7.25	12.50	7.00A	----	7.80-	300	.057	----	20	467 +	4	34.00B	2.50A
2365	9.75	#11.50B	*7.00A	----	8.00-	300	.059	----	5	16 +	5	11.50B	7.00A
2370	13.00	13.00	7.25A	----	8.10-	320	.060	----	10	355 -	3	35.00B	2.55A
2375	----	12.25B	7.50A	----	8.30-	320	.061	----	----	566	UNCH	35.50B	2.60A
2380	----	12.50B	7.50A	----	8.50-	330	.063	----	2	434 -	2	36.25B	2.65A
2385	----	#12.75B	*7.75A	----	8.70-	340	.065	----	----	5	UNCH	12.75B	7.75A
2390	14.75	14.75	8.00A	----	8.90-	340	.066	----	38	626	UNCH	37.25B	2.75A
2395	----	#13.25B	*8.00A	----	9.10-	340	.068	----	----	6	UNCH	13.25B	8.00A
2400	10.00	15.50	8.25A	----	9.30-	350	.069	----	553	2835 +	390	38.50B	2.85A
2405	15.75	#15.75	*8.50A	----	9.60-	340	.072	----	119	124 +	119	15.75	8.50A
2410	9.75	14.25B	8.75A	----	9.80-	350	.073	----	5	789	UNCH	39.75B	2.95A
2415	----	#14.50B	*8.75A	----	10.00-	350	.075	----	----	12	UNCH	14.50B	8.75A
2420	9.50	14.75B	9.00A	----	10.30-	360	.077	----	204	565 +	175	41.25B	3.05A
2425	----	15.25B	9.25A	----	10.50-	370	.079	----	2	502	UNCH	41.75B	3.15A
2430	----	15.50B	9.50A	----	10.80-	380	.081	----	1	712	UNCH	42.50B	3.20A
2435	----	15.75B	9.75A	----	11.00-	400	.083	----	----	194	UNCH	42.25B	3.25A
2440	15.50	16.25B	10.00A	----	11.30-	410	.085	----	105	953 +	95	44.00B	3.30A
2445	11.75	16.50B	10.25A	----	11.50-	430	.087	----	2	312	UNCH	43.50B	3.35A
2450	11.00	17.00B	10.50A	----	11.80-	450	.090	----	20	1699 -	16	45.50B	3.40A
2455	13.50	17.25B	10.75A	----	12.10-	460	.092	----	39	966 +	37	45.00B	3.50A
2460	12.25	17.75B	11.00A	----	12.40-	470	.094	----	15	392 +	13	47.00B	3.55A
2465	13.25	18.25B	11.25A	----	12.70-	490	.097	----	2	785 +	1	46.50B	3.60A
2470	20.00	20.50	11.50A	----	13.00-	500	.099	----	269	631 +	264	48.50B	3.70A
2475	17.00	19.00B	11.75A	----	13.30-	500	.102	----	327	1195 +	2	49.25B	3.75A
2480	----	19.50B	12.00A	----	13.60-	510	.104	----	146	487 +	124	50.00B	3.85A
2485	----	20.00B	12.25A	----	13.90-	520	.107	----	----	225	UNCH	51.00B	3.90A
2490	14.25	20.50B	12.75A	----	14.30-	520	.110	----	12	155 +	12	51.75B	4.00A
2495	----	21.00B	13.00A	----	14.70-	530	.113	----	----	230	UNCH	52.50B	4.05A
2500	14.00	23.00	13.25A	----	15.10-	540	.116	----	1535	3142 +	156	53.50B	4.15A
2505	15.25	22.00B	13.75A	----	15.50-	550	.119	----	11	489	UNCH	54.25B	4.20A
2510	15.25	22.50B	14.00A	----	16.00-	560	.123	----	1	403 +	1	55.25B	4.30A
2515	18.50	23.00B	14.50A	----	16.40-	570	.126	----	166	539 -	1	56.25B	4.40A
2520	----	23.75B	14.75A	----	16.70-	600	.129	----	4	456	UNCH	57.00B	4.50A
2525	23.00	24.25B	15.25A	----	17.10-	620	.133	----	2	507 +	2	58.00B	4.55A
2530	----	24.75B	15.50A	----	17.60-	630	.136	----	----	411	UNCH	59.00B	4.65A
2535	21.75	25.50B	16.00A	----	18.00-	650	.140	----	15	64	UNCH	60.00B	4.75A
2540	21.00	31.00	16.50A	----	18.40-	670	.143	----	173	448 +	162	61.00B	4.85A
2545	19.75	26.75B	16.75A	----	18.90-	690	.147	----	150	462 +	130	62.00B	4.95A
2550	17.25	32.00	17.25	----	19.40-	710	.151	----	855	1888 +	566	63.00B	5.25A
2555	----	28.00B	17.75A	----	20.00-	720	.156	----	4	71 +	4	64.00B	5.25A
2560	----	28.75B	18.25A	----	20.50-	740	.160	----	5	126	UNCH	65.00B	5.25A
2565	20.25	29.50B	18.75A	----	21.10-	750	.164	----	1	217 +	1	66.25B	5.50A
2570	19.50	30.25B	19.25A	----	21.60-	770	.169	----	265	394 -	148	67.25B	5.50A
2575	32.75	32.75	19.75A	----	22.20-	790	.173	----	375	942 +	73	68.25B	5.75A
2580	----	31.75B	20.25A	----	22.80-	800	.178	----	107	1269 +	106	69.50B	5.75A
2585	----	32.50B	21.00A	----	23.40-	820	.183	----	----	572	UNCH	70.75B	6.00A
2590	----	33.25B	21.50A	----	24.10-	830	.188	----	----	374	UNCH	71.75B	6.00A
2595	----	34.25B	22.00A	----	24.70-	860	.193	----	5	231 +	5	73.00B	6.25A
2600	23.75	35.00B	22.25	----	25.40-	880	.198	----	2557	4480 -	408	74.25B	6.25
2605	35.00	36.00B	23.25A	----	26.00-	910	.204	----	151	687 -	90	75.50B	6.50A
2610	----	37.00B	24.00A	----	26.70-	930	.209	----	59	1527 +	21	76.75B	6.75A
2615	30.25	37.75B	24.75A	----	27.40-	960	.215	----	90	617 +	74	78.00B	6.75A
2620	----	38.75B	25.50A	----	28.								



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FINAL

PG48	BULLETIN #198@	E-MINI S&P 500 PUT OPTIONS										Fri, Oct 12, 2018			PG48
2800	80.50	98.50B	72.50A	----	78.30-	2020	.571	----	936	5222 +	174	146.00B	17.25		
2805	----	101.50B	74.75A	----	80.70-	2040	.585	----	5	1390 +	2	148.75B	17.75A		
2810	----	104.25B	77.00A	----	83.10-	2070	.599	----	175	2410 -	133	151.25B	18.25A		
2815	----	107.00B	79.25A	----	85.60-	2100	.613	----	----	412	UNCH	154.25B	18.75A		
2820	----	109.75B	81.75A	----	88.20-	2120	.628	----	20	6880 -	17	157.00B	19.25A		
2825	----	112.75B	84.00A	----	90.80-	2150	.642	----	397	1343 -	317	159.75B	20.00		
2830	114.50	115.75B	86.75A	----	93.50-	2180	.656	----	6	576 -	1	162.75B	20.50A		
2835	----	----	89.25A	----	96.30-	2210	.671	----	86	304 +	83	165.75B	21.25A		
2840	----	----	92.00A	----	99.20-	2230	.686	----	1	172 -	1	169.00B	22.00A		
2845	----	----	94.75A	----	102.20-	2260	.700	----	----	223	UNCH	172.00B	22.50A		
2850	106.25	127.25B	97.50A	----	105.30-	2280	.714	----	730	3985 -	25	175.25B	23.25A		
2855	----	----	100.50A	----	108.50-	2300	.729	----	----	370	UNCH	178.25B	24.25A		
2860	----	----	103.75A	----	111.80-	2310	.743	----	28	541 -	6	181.75B	25.00A		
2865	----	----	107.50A	----	115.20-	2320	.757	----	----	452	UNCH	185.00B	25.75A		
2870	----	----	110.50A	----	118.70-	2330	.770	----	----	871	UNCH	188.50B	26.75		
2875	----	----	114.00A	----	122.20-	2340	.784	----	87	192.00B	87	192.00B	27.75A		
2880	----	----	117.25A	----	125.80-	2350	.797	----	1	524 -	1	195.25B	28.75A		
2885	130.00	152.50B	120.75A	----	129.40-	2360	.810	----	1	266	UNCH	199.00B	29.75A		
2890	----	----	124.25A	----	133.20-	2370	.824	----	1	6394	UNCH	202.75B	30.75A		
2895	----	----	128.00A	----	137.00-	2380	.836	----	----	318	UNCH	206.50B	31.75		
2900	137.50	175.00	131.75A	----	140.90-	2390	.848	----	75	1241 +	68	210.25B	33.00A		
2905	----	----	135.50A	----	144.90-	2400	.860	----	----	299	UNCH	214.25B	34.25A		
2910	----	----	139.50A	----	149.00-	2410	.871	----	----	108	UNCH	218.25B	35.50A		
2915	----	----	143.50A	----	153.20-	2410	.881	----	13	153 -	10	222.25B	37.00A		
2920	----	----	147.50A	----	157.50-	2420	.891	----	----	648	UNCH	226.25B	38.25A		
2925	180.00	187.50	151.75A	----	161.90-	2410	.899	----	20	557 +	6	229.50B	40.00A		
2930	182.25	197.00	155.75A	----	166.30-	2410	.906	----	20	354 +	19	233.50B	41.50A		
2935	187.50	197.50	160.00A	----	170.80-	2410	.914	----	20	396 +	20	237.75B	43.25A		
2940	----	----	164.25A	----	175.30-	2410	.921	----	2	233	UNCH	242.00B	45.00A		
2945	----	----	168.75A	----	179.90-	2400	.928	----	1	52 -	1	246.25B	46.75A		
2950	----	----	173.00A	----	184.50-	2400	.934	----	67	324 -	53	250.75B	48.75A		
2955	----	----	177.50A	----	189.10-	2400	.939	----	----	21	UNCH	255.00B	50.75A		
2960	----	----	182.00A	----	193.80-	2390	.944	----	----	36	UNCH	259.50B	53.00A		
2965	----	----	186.50A	----	198.60-	2370	.948	----	----	123	UNCH	263.75B	55.00		
2970	----	----	191.00A	----	203.30-	2370	.953	----	----	47	UNCH	268.25B	57.50A		
2975	----	----	195.75A	----	208.10-	2370	.956	----	----	68	UNCH	272.75B	60.00A		
2980	----	----	200.50A	----	212.90-	2360	.960	----	93	328 +	78	277.50B	62.75A		
2985	----	----	204.75A	----	217.70-	2360	.963	----	----	2	UNCH	281.75B	65.50A		
2990	222.75	246.00B	209.75A	----	222.60-	2350	.966	----	25	34	UNCH	286.50B	68.25A		
2995	----	----	214.50A	----	227.40-	2350	.968	----	----	229	UNCH	291.00B	71.25A		
3000	----	----	219.25A	----	232.30-	2350	.970	----	----	13	UNCH	295.75B	75.25A		
3005	----	----	----	----	237.20-	2340	.972	----	----	2	UNCH	295.00B	78.75A		
3010	----	----	----	----	242.10-	2340	.974	----	----	16	UNCH	208.75B	82.25A		
3015	----	----	----	----	247.00-	2330	.976	----	----	1	UNCH	213.25B	85.75A		
3050	280.00	280.75B	279.00A	----	281.40-	2330	.985	----	25	25	UNCH	337.75B	113.75A		
3200	----	----	----	----	430.50-	2290	.996	----	----	1	UNCH	323.25B	266.25A		
TOTAL									22777	184551 +	4046				
DEC18	EOM EMINI S&P P														
1250	----	----	.50A	----	.40-	30	.001	----	----	256	UNCH	.75	.45A		
1275	----	----	.55A	----	.45-	30	.001	----	----	2	UNCH	.80B	.40A		
1325	----	----	.60A	----	.50-	35	.001	----	----	240	UNCH	.90B	.35A		
1350	----	----	.65A	----	.50-	45	.002	----	----	240	UNCH	.95B	.65A		
1375	----	----	.70A	----	.55-	45	.002	----	----	398	UNCH	1.05B	.30A		
1400	----	----	.75A	----	.60-	45	.002	----	----	144	UNCH	1.10B	.45A		
1450	----	----	.85A	----	.65-	55	.002	----	----	100	UNCH	1.25B	.40A		
1475	1.40	1.40	.90A	----	.75-	50	.003	----	----	43 +	1	1.95B	.40A		
1500	1.10	1.25B	.95A	----	.80-	55	.003	----	69	1670	UNCH	2.10B	.40A		
1575	1.80	1.95	1.15A	----	1.00-	65	.004	----	27	223 +	4	2.75B	.50A		
1600	1.50	1.65B	1.25A	----	1.10-	65	.004	----	25	566	UNCH	3.05B	.55A		
1625	----	----	1.30A	----	1.20-	65	.005	----	----	147	UNCH	3.30B	.60		
1650	2.00	2.00	1.40A	----	1.30-	70	.005	----	5	492 +	5	3.55B	.65A		
1675	----	----	1.50A	----	1.40-	70	.006	----	----	5	UNCH	3.85B	.70A		
1700	----	2.25B	1.65A	----	1.55-	65	.007	----	----	251	UNCH	4.20B	.75A		
1725	----	2.45B	1.75A	----	1.65-	70	.007	----	----	423	UNCH	4.55B	.80		
1750	----	2.60B	1.90A	----	1.80-	70	.008	----	----	300	UNCH	4.95B	.85A		
1775	----	2.80B	2.05A	----	1.95-	70	.009	----	----	203	UNCH	5.25B	.90A		
1800	3.20	3.20	2.20A	----	2.10-	75	.010	----	1	3839 -	1	5.75B	.95A		
1825	----	3.25B	2.35A	----	2.25-	85	.011	----	----	4	UNCH	6.25B	1.00A		
1850	----	3.50B	2.50A	----	2.45-	85	.012	----	----	123	UNCH	6.75B	1.10A		
1860	----	3.60B	2.60A	----	2.55-	85	.012	----	----	368	UNCH	7.00B	1.10A		
1870	----	3.75B	2.65A	----	2.60-	90	.013	----	----	134	UNCH	7.25B	1.15		
1875	----	3.80B	2.70A	----	2.65-	90	.013	----	----	423	UNCH	7.25B	1.15A		
1880	----	3.85B	2.75A	----	2.70-	90	.013	----	----	200	UNCH	7.50B	1.15A		
1890	----	3.95B	2.80A	----	2.80-	90	.014	----	----	108	UNCH	7.75B	1.20A		
1900	----	4.10B	2.90A	----	2.90-	90	.014	----	----	375	UNCH	8.00B	1.25A		
1910	----	4.25B	3.00A	----	3.00-	90	.015	----	----	342	UNCH	8.25B	1.25A		
1925	4.05	4.40B	3.10A	----	3.15-	95	.016	----	437	444 +	139	8.75B	1.30A		
1930	----	4.50B	3.15A	----	3.20-	95	.016	----	----	305	UNCH	8.75B	1.35A		
1940	----	4.60B	3.25A	----	3.30-	95	.016	----	----	200	UNCH	9.00B	1.35A		
1950	----	4.75B	3.35A	----	3.40-	100	.017	----	----	107	UNCH	9.25B	1.40A		
1960	----	4.90B	3.45A	----	3.50-	105	.018	----	----	181	UNCH	9.75B	1.45A		
1970	----	5.00B	3.55A	----	3.60-	110	.018	----	----	315	UNCH	10.00B	1.50A		
1975	----	5.00B	3.60A	----	3.70-	105	.019	----	----	845	UNCH	10.25B	1.50A		
1980	4.50	5.00B	3.65A	----	3.75-	110	.019	----	2	342	UNCH	10.25B	1.55A		
1990	----	5.25B	3.75A	----	3.85-	115	.020	----	----	236	UNCH	10.75B	1.60A		
2000	4.50	6.00	3.85A	----	4.00-	110	.021	----	9	3212 +	5	11.00B	1.60A		
2010	----	5.50B	4.00A	----	4.15-	115	.021	----	----	420	UNCH	11.25B	1.65A		
2020	----	5.75B	4.10A	----	4.25-	125	.022	----	----	1	UNCH	11.75B	1.70A		
2025	4.50	6.00B	4.15A	----	4.35-	125	.023	----	2	76	UNCH	12.00B	1.75A		
2030	----	6.00B	4.25A	----	4.40-	120	.023	----	----	2	UNCH	12.00B	1.75A		
2040	----	6.25B	4.35A	----	4.55-	125	.024	----	----	17	UNCH	12.50B	1.80A		
2050	----	6.50B	4.50A	----	4.70-	130	.025	----	----	66	UNCH	13.00B	1.85A		
2060	----	6.50B	4.65A	----	4.90-	130	.026	----	----	1	UNCH	13.25B	1.90A		
2070	----	6.75B	4.75A	----	5.00-	140	.027	----	----	60	UNCH	13.75B	2.00		
2075	----	7.00B	4.85A	----	5.10-	140	.027	----	9	595 -	9	14.00B	2.00A		
2080	----	7.00B	4.90A	----	5.20-	150	.028	----	----	204	UNCH	14.25B	2.05A		
2090	----	7.25B	5.25A	----	5.30-	160	.028	----	----	265	UNCH	14.75B	2.10A		
2100	5.75	7.50B	5.25A	----	5.50-	160	.030	----	261	1333 +	139	15.25	2.15A		
2110	----	7.75B	5.50A	----	5.70-	170	.031	----	----	10	UNCH	15.75B	2.20A		
2120	----	8.00B	5.50A	----	5.90-	180	.032	----	----	267	UNCH	16.25B	2.30A		
2125	----	8.25B	5.75A	----	6.00-	180	.033	----	----	1121	UNCH	16.50B	2.30A		
2130	----	8.25B	5.75A	----	6.10-	180	.033	----	----	3	UNCH	16.75B	2.35A		
2140															



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PG48	BULLETIN #198@	E-MINI S&P 500 PUT OPTIONS										Fri, Oct 12, 2018		PG48
2410	17.50	22.75B	15.50A	----	17.20-	470	.103	----	76	349	UNCH	40.75B	5.75A	
2420	19.00	23.50B	16.00A	----	17.90-	490	.107	----	19	484	+	42.25B	6.00A	
2425	18.25	24.00B	16.50A	----	18.30-	490	.110	----	27	480	UNCH	42.75B	6.00A	
2430	18.75	24.50B	16.75A	----	18.60-	500	.112	----	42	771	UNCH	43.50B	6.25A	
2440	----	25.50B	17.50A	----	19.40-	500	.117	----	----	193	UNCH	45.00B	6.50A	
2450	----	26.50B	18.00A	----	20.20-	510	.122	----	51	1108	UNCH	46.25B	6.25	
2460	----	27.50B	18.75A	----	21.00-	530	.127	----	----	124	UNCH	47.75B	6.75A	
2470	----	28.50B	19.75A	----	21.90-	540	.132	----	----	506	UNCH	49.50B	7.00A	
2475	----	29.00B	20.00A	----	22.40-	550	.135	----	----	712	UNCH	50.25B	7.25A	
2480	----	29.75B	20.50A	----	22.80-	560	.138	----	22	244	+	51.00B	7.25A	
2490	----	30.75B	21.25A	----	23.80-	580	.144	----	----	140	UNCH	52.75B	7.50	
2500	23.50	32.00B	22.25A	----	24.80-	610	.150	----	96	1134	+	54.25B	8.00A	
2510	26.00	33.25B	23.25A	----	25.80-	630	.157	----	100	288	+	56.25B	8.25A	
2515	26.50	#34.00B	*23.75A	----	26.30+	NEW	.160	----	100	100	+	34.00B	23.75A	
2520	----	34.75B	24.25A	----	26.90-	660	.164	----	----	132	UNCH	58.00B	8.50A	
2525	----	35.25B	24.75A	----	27.40-	680	.167	----	----	612	UNCH	59.00B	8.75	
2530	----	36.00B	25.25A	----	28.00-	690	.171	----	22	159	-	59.75B	8.75A	
2540	----	37.50B	26.25A	----	29.20-	720	.178	----	59	185	+	65.25B	9.00A	
2550	29.25	39.00B	27.50A	----	30.40-	750	.186	----	7	980	+	63.75B	9.50	
2560	----	40.50B	28.50A	----	31.70-	780	.194	----	----	461	UNCH	65.75B	9.75	
2570	33.00	42.25B	29.75A	----	33.00-	820	.202	----	55	130	+	68.00B	10.25A	
2575	----	43.00B	30.50A	----	33.70-	830	.207	----	----	109	UNCH	69.00B	10.50	
2580	34.50	44.00B	31.25A	----	34.50-	840	.211	----	3	106	UNCH	70.25B	10.75A	
2590	----	45.75B	32.50A	----	36.00-	870	.220	----	----	366	UNCH	72.50B	11.00A	
2600	41.00	50.75	34.00A	----	37.50-	900	.230	----	335	3018	-	74.75B	11.50	
2605	----	#48.75B	34.75A	----	38.30-	920	.235	----	----	6	UNCH	48.75B	21.25	
2610	39.25	49.75B	35.50A	----	39.20-	930	.240	----	36	469	UNCH	77.25B	12.00A	
2615	----	#50.75B	36.25A	----	40.00-	950	.245	----	----	11	UNCH	50.75B	17.25A	
2620	----	51.75B	37.25A	----	40.90-	970	.251	----	----	202	UNCH	79.75B	12.50A	
2625	45.25	54.75	38.00A	----	41.80-	990	.256	----	9	554	+	81.00B	12.75A	
2630	55.50	55.50	38.75A	----	42.70-	1010	.262	----	4	157	-	82.25B	13.00A	
2635	----	#55.00B	39.75A	----	43.60-	1030	.267	----	----	34	UNCH	55.00B	13.25A	
2640	----	56.25B	40.50A	----	44.60-	1050	.273	----	----	367	UNCH	55.00B	13.50A	
2645	----	#57.25B	41.50A	----	45.50-	1080	.279	----	----	5	UNCH	57.25B	13.75A	
2650	58.50	58.50	42.50A	----	46.50-	1100	.285	----	58	550	-	87.75B	14.00A	
2655	----	#59.75B	43.50A	----	47.60-	1120	.291	----	----	79	UNCH	59.75B	14.25A	
2660	----	61.00B	44.50A	----	48.60-	1150	.297	----	----	153	UNCH	90.50B	14.50A	
2665	----	#62.25B	45.50A	----	49.70-	1170	.304	----	----	31	UNCH	62.25B	15.00A	
2670	----	63.75B	46.50A	----	50.80-	1190	.311	----	1	130	UNCH	93.50B	15.25A	
2675	----	64.75B	47.50A	----	52.00-	1200	.317	----	----	295	UNCH	95.00B	15.50A	
2680	67.50	67.50	48.50A	----	53.10-	1230	.324	----	23	308	UNCH	96.50B	16.00A	
2685	68.75	#68.75	49.75A	----	54.30-	1250	.331	----	1	35	UNCH	68.75	16.25A	
2690	70.25	70.25	51.00A	----	55.60-	1270	.338	----	53	181	+	99.75B	16.50A	
2695	68.75	#70.50B	52.00A	----	56.80-	1290	.346	----	1	84	UNCH	70.50B	17.00A	
2700	73.75	73.75	53.25A	----	58.10-	1310	.353	----	4	388	-	103.00B	17.25	
2705	----	#73.50B	54.50A	----	59.40-	1330	.361	----	----	132	UNCH	73.50B	17.75A	
2710	76.25	76.25	55.75A	----	60.80-	1350	.368	----	59	187	+	106.25B	18.00A	
2715	76.50	#76.75B	57.00A	----	62.20-	1370	.376	----	1	13	+	76.75B	18.50A	
2720	65.00	78.50B	58.25A	----	63.60-	1400	.384	----	1	330	UNCH	109.75B	19.00A	
2725	63.00	81.00	59.75A	----	65.00-	1420	.393	----	3	1635	+	111.75B	19.25A	
2730	----	81.75B	61.00A	----	66.50-	1450	.401	----	----	233	UNCH	113.50B	19.75A	
2735	----	#83.50B	62.50A	----	68.00-	1470	.409	----	76	85	+	83.50B	20.25A	
2740	----	85.50B	64.00A	----	69.50-	1500	.418	----	----	669	UNCH	117.25B	20.75A	
2745	80.00	87.25B	65.50A	----	71.10-	1530	.427	----	1	368	UNCH	90.50	21.25A	
2750	82.00	89.00B	67.00A	----	72.70-	1560	.436	----	106	397	-	120.75B	21.75A	
2755	83.00	#90.75B	68.50A	----	74.40-	1580	.445	----	2	282	UNCH	90.75B	22.25A	
2760	85.00	92.75B	70.25A	----	76.10-	1610	.454	----	1	526	-	124.75B	22.75A	
2765	----	#95.00B	72.00A	----	77.90-	1630	.464	----	18	59	+	95.00B	23.25A	
2770	----	96.75B	73.50A	----	79.70-	1660	.473	----	109	3141	+	94	129.00B	23.75A
2775	----	98.75B	75.50A	----	81.50-	1690	.483	----	----	139	UNCH	131.00B	24.25A	
2780	----	101.00B	77.25A	----	83.40-	1710	.493	----	----	389	UNCH	133.25B	24.75A	
2785	----	#103.25B	79.25A	----	85.40-	1730	.503	----	1	267	UNCH	103.25B	25.50A	
2790	----	105.25B	81.00A	----	87.40-	1750	.514	----	----	190	UNCH	137.75B	26.00A	
2795	----	#107.50B	83.00A	----	89.50-	1760	.524	----	----	24	UNCH	107.50B	26.75A	
2800	----	110.00B	85.00A	----	91.50-	1790	.534	----	----	840	UNCH	142.50B	27.25A	
2805	----	#112.50B	87.00A	----	93.70-	1800	.545	----	----	311	UNCH	112.50B	28.00A	
2810	----	115.00B	89.25A	----	95.90-	1810	.556	----	----	568	UNCH	147.25B	28.75A	
2815	----	#117.50B	91.25A	----	98.10-	1840	.567	----	----	302	UNCH	117.50B	29.25A	
2820	----	120.00B	93.50A	----	100.40-	1860	.578	----	----	662	UNCH	152.25B	30.00A	
2825	----	122.50B	95.75A	----	102.80-	1880	.589	----	----	462	UNCH	155.00B	31.00A	
2830	----	125.25B	98.00A	----	105.20-	1900	.600	----	----	758	UNCH	157.75B	31.75A	
2835	----	#128.00B	100.50A	----	107.60-	1940	.612	----	----	600	UNCH	128.00B	32.50A	
2840	113.50	130.75B	103.00A	----	110.20-	1960	.623	----	1	1006	UNCH	163.00B	33.25A	
2845	115.25	#133.50B	105.50A	----	112.80-	1990	.635	----	1	360	UNCH	133.50B	34.25A	
2850	120.50	136.50B	108.00A	----	115.50-	2010	.646	----	1	1439	UNCH	168.75B	35.00A	
2855	122.50	#139.50B	110.50A	----	118.20-	2040	.658	----	1	504	UNCH	139.50B	36.00A	
2860	----	142.50B	113.25A	----	121.00-	2070	.670	----	----	746	UNCH	174.75B	37.00A	
2865	----	#145.50B	116.00A	----	123.90-	2090	.681	----	----	350	UNCH	145.50B	38.00A	
2870	129.25	148.50B	118.75A	----	126.90-	2110	.693	----	3	726	UNCH	180.75B	39.00A	
2875	129.25	151.75B	121.75A	----	130.00-	2120	.704	----	1	762	-	184.00B	40.00A	
2880	----	155.00B	124.75A	----	133.10-	2130	.716	----	----	5562	UNCH	187.25B	41.00A	
2885	----	#158.25B	127.75A	----	136.30-	2150	.727	----	----	137	UNCH	158.25B	42.25A	
2890	----	161.75B	130.75A	----	139.60-	2160	.739	----	----	549	UNCH	203.75	43.50A	
2895	----	#165.25B	134.25A	----	142.90-	2190	.750	----	----	302	UNCH	165.25B	44.50A	
2900	----	169.00B	137.50A	----	146.30-	2220	.761	----	----	327	UNCH	200.75B	45.75A	
2905	----	#172.50B	141.00A	----	149.70-	2250	.772	----	----	281	UNCH	172.50B	47.00A	
2910	152.25	176.25B	144.25A	----	153.30-	2270	.783	----	3	126	UNCH	207.75B	48.50A	
2915	----	#180.00B	147.75A	----	156.90-	2290	.793	----	----	805	UNCH	180.00B	49.75A	
2920	----	183.75B	151.25A	----	160.60-	2300	.804	----	----	396	UNCH	215.00B	51.25A	
2925	188.50	188.50	155.00A	----	164.40-	2310	.814	----	1	377	UNCH	218.75B	52.75A	
2930	----	----	158.75A	----	168.20-	2320	.823	----	----	179	UNCH	222.75B	54.25A	
2935	----	#195.50B	162.50A	----	172.10-	2320	.833	----	----	139	UNCH	195.50B	55.75A	
2940	----	199.50B	166.25A	----	176.10-	2320	.842	----	----	149	UNCH	230.50B	57.50A	
2945	----	#203.75B	170.25A	----	180.20-	2310	.850	----	----	45	UNCH	203.75B	59.25A	
2950	----	207.75B	174.00A	----	184.20-	2320	.859	----	----	161	UNCH	238.50B	61.00A	
2955	----	#211.75B	178.25A	----	188.40-	2310	.867	----	----	80	UNCH	211.75B	6	



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PG48	BULLETIN #198@	E-MINI S&P 500 PUT OPTIONS										Fri, Oct 12, 2018		PG48
1550	----	----	1.75A	----	1.70-	60	.006	----	----	202	UNCH	2.35B	.80A	
1575	----	----	1.90A	----	1.80-	65	.007	----	----	12	UNCH	2.50B	.85A	
1600	----	----	2.00A	----	1.95-	70	.007	----	----	44	UNCH	2.70B	.90A	
1625	----	2.85B	2.15A	----	2.10-	70	.008	----	----	5	UNCH	2.90B	1.00A	
1650	----	3.05B	2.30A	----	2.25-	75	.009	----	----	240	UNCH	3.15B	1.15A	
1675	----	3.30B	2.45A	----	2.45-	75	.010	----	----	3	UNCH	3.40B	1.15A	
1700	----	3.55B	2.65A	----	2.60-	80	.010	----	----	30	UNCH	3.65B	1.25A	
1725	----	3.85B	2.85A	----	2.85-	80	.012	----	----	2	UNCH	3.95B	1.30A	
1750	3.05	4.15B	3.05	----	3.05-	85	.013	----	3	23 +	3	4.25B	1.40A	
1775	----	4.45B	3.30A	----	3.30-	90	.014	----	----	2	UNCH	4.55B	1.50A	
1800	----	4.85B	3.55A	----	3.60-	90	.015	----	----	88	UNCH	4.90B	1.60A	
1825	----	5.00B	3.80A	----	3.90-	90	.017	----	----	302	UNCH	5.25B	1.70A	
1850	3.90	#5.75	3.90	----	4.20-	100	.018	----	5	21 +	5	5.75	1.85A	
1860	----	5.75B	4.25A	----	4.35-	95	.019	----	----	390	UNCH	5.75B	1.90A	
1870	----	5.75B	4.35A	----	4.50-	100	.019	----	----	28	UNCH	6.00B	1.95A	
1875	----	6.00B	4.45A	----	4.60-	100	.020	----	----	101	UNCH	6.00B	1.95A	
1880	----	6.00B	4.50A	----	4.65-	105	.020	----	----	299	UNCH	6.25B	2.00A	
1890	----	6.25B	4.65A	----	4.80-	100	.021	----	----	299	UNCH	6.25B	2.05A	
1900	4.65	#6.75	4.65	----	4.95-	105	.022	----	2	116 +	1	6.75	2.10A	
1910	----	6.50B	4.90A	----	5.10-	110	.022	----	----	2	UNCH	6.75B	2.15A	
1925	----	7.00B	5.25A	----	5.40-	110	.024	----	----	304	UNCH	7.00	2.25A	
1930	----	7.00B	5.25A	----	5.50-	110	.024	----	----	100	UNCH	7.00B	2.30A	
1940	----	7.25B	5.50A	----	5.70-	110	.025	----	----	101	UNCH	7.25B	2.35A	
1950	----	7.50B	5.50A	----	5.80-	130	.026	----	----	68	UNCH	10.00	2.45A	
1960	----	7.75B	5.75A	----	6.00-	130	.027	----	----	43	UNCH	7.75B	2.50A	
1970	----	8.00B	6.00A	----	6.20-	130	.028	----	----	100	UNCH	8.00B	2.55A	
1975	----	8.00B	6.00A	----	6.30-	130	.028	----	----	130	UNCH	8.00B	2.60A	
1980	8.25	8.25	6.00A	----	6.40-	140	.029	----	1	292 +	1	8.25B	2.65A	
1990	----	8.50B	6.25A	----	6.60-	140	.030	----	----	16	UNCH	8.50B	2.75A	
2000	8.00	8.75B	6.50A	----	6.70-	150	.030	----	10	3569	UNCH	11.50	2.80A	
2010	----	9.00B	6.75A	----	6.90-	160	.031	----	----	1	UNCH	9.00B	2.90A	
2020	----	9.25B	6.75A	----	7.10-	170	.032	----	----	1	UNCH	9.25B	3.00A	
2025	----	#9.50B	7.00A	----	7.30-	160	.033	----	----	295	UNCH	9.50B	3.00A	
2050	----	10.00B	7.50A	----	7.90-	160	.036	----	----	8	UNCH	10.00B	3.20A	
2060	----	#10.50B	7.75A	----	8.20-	160	.038	----	----	101	UNCH	10.50B	3.30A	
2070	----	10.75B	8.00A	----	8.60-	150	.039	----	----	2	UNCH	10.75B	3.40A	
2075	----	#11.00B	8.00A	----	8.70-	160	.040	----	----	42	UNCH	11.00B	3.45A	
2090	----	#11.50B	8.50A	----	9.20-	160	.042	----	----	5000	UNCH	11.50B	3.60A	
2100	----	11.75B	8.75A	----	9.50-	160	.044	----	----	2486	UNCH	11.75B	3.75A	
2120	----	#12.50B	9.25A	----	10.00-	190	.047	----	----	47	UNCH	12.50B	3.90A	
2125	----	#12.75B	9.50A	----	10.10-	200	.047	----	----	393	UNCH	12.75B	4.00A	
2130	----	#13.00B	9.50A	----	10.30-	200	.048	----	----	72	UNCH	13.00B	4.05A	
2140	----	#13.50B	9.75A	----	10.60-	210	.050	----	----	135	UNCH	13.50B	4.15A	
2150	----	#14.00B	10.25A	----	10.90-	220	.051	----	----	1296	UNCH	14.00B	4.30A	
2160	----	#14.50B	10.50A	----	11.30-	230	.053	----	----	7	UNCH	14.50B	4.40A	
2175	----	#15.00B	11.00A	----	11.80-	240	.056	----	----	44	UNCH	15.00B	4.60A	
2180	----	#15.25B	11.00A	----	12.00-	250	.057	----	----	52	UNCH	15.25B	4.70A	
2190	----	#15.75B	11.50A	----	12.40-	250	.059	----	----	4	UNCH	15.75B	4.90A	
2200	12.00	#16.25B	11.75A	----	12.90-	250	.062	----	9	51 +	1	16.25B	5.00A	
2210	12.25	#16.75B	12.25	----	13.30-	260	.064	----	6	6 +	1	16.75B	5.25A	
2220	12.75	#17.25B	12.50A	----	13.80-	260	.066	----	33	33 +	28	17.25B	5.25A	
2225	13.00	#17.75B	12.75A	----	14.00-	270	.067	----	6	21 +	2	17.75B	5.50A	
2240	13.50	#18.50B	13.50	----	14.70-	280	.071	----	9	15 +	9	18.50B	5.75A	
2250	14.00	#19.00B	13.75A	----	15.20-	280	.073	----	18	35 -	3	19.00B	5.75A	
2260	14.50	19.75B	14.25A	----	15.70-	290	.076	----	32	5202	UNCH	23.00	6.00A	
2270	15.00	#20.25B	14.75A	----	16.20+	NEW	.079	----	17	17 +	17	20.25B	6.25A	
2275	----	#20.75B	15.00A	----	16.50-	310	.080	----	----	53	UNCH	20.75B	6.25A	
2280	15.50	#21.00B	15.25A	----	16.80-	320	.082	----	5	9520	UNCH	21.00B	6.25	
2290	----	#21.75B	15.75A	----	17.30-	340	.084	----	----	7	UNCH	21.75B	6.50A	
2300	----	22.25B	16.25A	----	17.90-	360	.087	----	----	546	UNCH	22.50	6.75A	
2310	----	#23.00B	16.75A	----	18.50-	380	.091	----	----	5320	UNCH	23.00B	7.00A	
2320	----	#23.75B	17.50A	----	19.10-	410	.094	----	----	1501	UNCH	23.75B	7.25A	
2325	----	#24.25B	17.75A	----	19.50-	410	.096	----	----	75	UNCH	24.25B	7.25A	
2330	23.00	#24.75B	18.00A	----	19.80-	410	.097	----	6	81 +	6	24.75B	7.50A	
2340	----	#25.50B	18.50A	----	20.40-	430	.101	----	----	67	UNCH	25.50B	7.50A	
2350	----	#26.25B	19.25A	----	21.10-	440	.104	----	----	222	UNCH	26.25B	7.75A	
2360	----	#27.25B	20.00A	----	21.80-	450	.108	----	----	88	UNCH	27.25B	8.00A	
2370	----	#28.00B	20.50A	----	22.50-	470	.112	----	----	91	UNCH	28.00B	8.25A	
2375	----	#28.50B	21.00A	----	22.90-	480	.114	----	----	100	UNCH	28.50B	8.50A	
2380	----	#29.00B	21.25A	----	23.30-	490	.116	----	----	104	UNCH	29.00B	8.50A	
2390	----	#30.00B	22.00A	----	24.20-	490	.120	----	----	133	UNCH	30.00B	8.75A	
2400	----	#31.00B	22.75A	----	25.00-	520	.125	----	----	238	UNCH	31.00B	9.25A	
2410	----	#32.00B	23.50A	----	25.90-	530	.129	----	----	298	UNCH	32.00B	9.50A	
2420	----	#33.25B	24.50A	----	26.80-	550	.134	----	----	75	UNCH	33.25B	9.75A	
2425	----	#33.75B	24.75A	----	27.30-	550	.137	----	----	75	UNCH	33.75B	10.00A	
2430	----	#34.25B	25.25A	----	27.70-	570	.139	----	----	168	UNCH	34.25B	10.00A	
2440	----	#35.50B	26.25A	----	28.70-	580	.144	----	----	115	UNCH	35.50B	10.25A	
2450	----	#36.50B	27.00A	----	29.70-	590	.149	----	6	84	UNCH	36.50B	10.75A	
2460	----	#38.00B	28.00A	----	30.70-	610	.155	----	----	45	UNCH	38.00B	11.00	
2470	----	#39.25B	29.00A	----	31.80-	620	.160	----	----	354	UNCH	39.25B	11.50A	
2475	----	#39.75B	29.50A	----	32.30-	640	.163	----	----	65	UNCH	39.75B	11.50A	
2480	----	#40.50B	30.00A	----	32.90-	640	.166	----	----	103	UNCH	40.50B	11.75	
2490	----	#42.00B	31.25A	----	34.00-	660	.172	----	----	30	UNCH	42.00B	12.25A	
2500	35.25	#43.25B	32.25A	----	35.20-	680	.179	----	21	1569	UNCH	43.25B	12.50A	
2510	----	#44.75B	33.50A	----	36.50-	690	.185	----	----	14	UNCH	44.75B	13.00A	
2520	36.50	#46.25B	34.75A	----	37.80-	710	.192	----	40	48 +	29	46.25B	13.50A	
2525	----	#47.00B	35.25A	----	38.50-	720	.196	----	----	489	UNCH	47.00B	13.75A	
2530	----	#48.00B	36.00A	----	39.10-	740	.199	----	----	2017	UNCH	48.00B	14.00A	
2540	----	#49.50B	37.25A	----	40.50-	770	.206	----	----	49	UNCH	49.50B	14.50A	
2550	----	#51.25B	38.50A	----	42.00-	790	.214	----	4	44	UNCH	51.25B	15.00A	
2560	----	#53.00B	40.00A	----	43.50-	820	.222	----	----	68	UNCH	53.00B	15.50A	
2570	----	#55.00B	41.50A	----	45.10-	840	.230	----	20	119 -	20	55.00B	16.00	
2575	----	#55.75B	42.25A	----	46.00-	850	.235	----	----	179	UNCH	55.75B	16.25	
2580	----	#56.75B	43.00A	----	46.80-	870	.239	----	----	378	UNCH	56.75B	16.50A	
2590	----	#58.75B	44.50A	----	48.50-	900	.248	----	----	29	UNCH	58.75B	17.25A	
2600	50.00	#60.75B	46.25A	----	50.40-	920	.257	----	15	200	UNCH	60.75B	17.75	
2610	----	#63.00B	48.00A	----	52.30-	940	.266	----	----	36	UNCH	63.00B	18.50	
2620	----	#65.25B	49.75A	----	54.30-	960	.276	----	----	46	UNCH	65.25B	19.25A	
2625	----	#66.25B	50.75A	----	55.30-	980	.281	----	----	343	UNCH	66.25B	19.50A	
2630	----	#67.50B	51.75A	----	56.40-	980	.287	----	----	169	UNCH	67.50B	19.75A	
2635	----	#68.75B	52.75A	----	57.40-									



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Table with columns: PG48, BULLETIN #198@, E-MINI S&P 500 PUT OPTIONS, Fri, Oct 12, 2018, PG48. Contains multiple columns of data including strike prices, bid/ask, and volume for various S&P 500 put options.

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Main table with columns: PG48, BULLETIN #198@, E-MINI S&P 500 PUT OPTIONS, Fri, Oct 12, 2018, PG48. Contains multiple rows of market data including strike prices, open, high, low, close, volume, and interest.

ADDITIONAL E-MINI S&P PUTS

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



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PG48	BULLETIN #198@				E-MINI S&P 500 PUT OPTIONS				Fri, Oct 12, 2018				PG48
1975	.40	.40	.15A	----	.10-	0.30	.000	----	420	490 +	400	8.00B	.05
1980	----	----	.15A	----	.10-	0.30	.000	----	1577	UNCH		8.25B	.05
1990	.30	.45	.15A	----	.10-	0.30	.000	----	209	629 +	187	8.50B	.15A
2000	.50	.50	.15	----	.10-	0.35	.000	----	1200	3130 +	1087	8.75B	.05
2010	.35	.60	.15A	----	.10-	0.35	.000	----	106	413 +	96	9.00B	.15A
2020	.30	.40	.15A	----	.10-	0.35	.000	----	27	969 +	26	9.50B	.05
2025	.55	.55	.15A	----	.10-	0.35	.000	----	14	1621 +	6	9.50B	.15A
2030	.35	.55	.15A	----	.10-	0.35	.000	----	200	1202 +	200	9.75B	.10A
2040	.45	.15	.15	----	.10-	0.40	.000	----	16	1667 -	2	10.00B	.10A
2050	.45	.55	.15A	----	.10-	0.40	.000	----	4	517 +	3	10.50B	.10
2060	.85	.85	.15A	----	.10-	0.40	.000	----	1	517 -	1	10.75B	.05
2070	.40	.75	.15A	----	.10-	0.45	.000	----	342	1161 +	149	11.25B	.10A
2075	.55	.55	.20A	----	.10-	0.45	.000	----	6	918 +	6	11.25B	.10
2080	.45	.45	.20A	----	.10-	0.45	.000	----	271	1100 +	214	11.50B	.10A
2090	.30	.55	.20A	----	.10-	0.45	.000	----	30	2719 -	2	12.00B	.10A
2100	.75	.75	.20A	----	.10-	0.50	.000	----	1783	5553 +	1477	12.25B	.05
2110	----	----	.20A	----	.10-	0.50	.000	----	1561	UNCH		12.75B	.10A
2120	.40	.65	.20A	----	.15-	0.45	.001	----	91	3869 +	91	13.25B	.10
2125	.75	.75	.20A	----	.15-	0.50	.001	----	357	3405 +	151	13.25B	.10A
2130	.65	.65	.20A	----	.15-	0.50	.001	----	60	1417 +	34	13.50B	.10
2140	.30	.60	.20A	----	.15-	0.50	.001	----	125	1667 +	100	14.00B	.10
2150	.30	1.10	.20A	----	.15-	0.55	.001	----	894	3889 +	218	14.50B	.10
2160	.75	.80	.25	----	.15-	0.55	.001	----	658	1612 +	331	15.00B	.10A
2170	.90	.90	.25A	----	.15-	0.60	.001	----	325	1031 +	20	15.50B	.10
2175	.35	.95	.25A	----	.15-	0.60	.001	----	433	2436 +	183	15.75B	.10
2180	----	----	.25A	----	.15-	0.60	.001	----	4026	UNCH		16.00B	.10
2190	.70	.95	.25A	----	.15-	0.65	.001	----	47	1052 +	26	16.50B	.10A
2200	.40	1.10	.25	----	.20-	0.65	.001	----	2099	11224 +	1060	17.25B	.10
2210	.40	1.25	.20	----	.20-	0.65	.001	----	564	3123 +	299	17.75B	.10A
2220	.65	1.20	.30A	----	.20-	0.70	.001	----	218	3894 +	150	18.25B	.10A
2225	.70	1.90	.30A	----	.20-	0.70	.001	----	16	1400 +	10	18.75B	.10A
2230	.40	1.95	.20	----	.20-	0.75	.001	----	4342	5626 +	1948	19.00B	.10A
2240	.40	1.95	.30	----	.20-	0.80	.001	----	2088	4447 +	700	19.50B	.10
2250	.65	1.95	.25	----	.25-	0.80	.002	----	1312	6497 +	967	20.25B	.10A
2260	1.00	1.00	.35A	----	.25-	0.85	.002	----	25	3479	UNCH	21.00B	.10A
2270	1.05	1.05	.35A	----	.25-	0.90	.002	----	33	1661 +	25	21.75B	.10A
2275	.65	2.20	.25	----	.25-	0.90	.002	----	353	3961 +	303	22.00B	.10A
2280	.80	1.45	.35	----	.30-	0.90	.002	----	36	2511 -	27	22.50B	.15
2290	.50	1.65	.40A	----	.30-	0.95	.002	----	1495	3686 +	1070	23.25B	.15
2300	.45	2.60	.35	----	.30-	1.05	.002	----	6140	8653 +	1166	24.00B	.15
2310	.50	2.00	.35	----	.35-	1.05	.003	----	710	2183 +	664	24.75B	.15
2320	1.35	2.50	.30	----	.35-	1.10	.003	----	786	2376 +	322	25.75B	.15
2325	.75	2.80	.40A	----	.35-	1.15	.003	----	3122	5036 +	2180	26.00B	.20
2330	.80	1.55B	.40	----	.35-	1.15	.003	----	1320	1941 +	898	26.50B	.15
2340	.80	2.95	.35	----	.35-	1.20	.003	----	1608	1731 +	661	27.50B	.15
2350	.70	2.55	.40	----	.35-	1.30	.003	----	930	7019 -	59	28.50B	.15
2360	1.05	3.10	.40	----	.40-	1.40	.004	----	247	1454 +	199	29.50B	.15
2365	.80	#.80	*.55A	----	.40	NEW	.004	----	5	5 +	5	.80	.55A
2370	.65	1.90B	.55A	----	.45-	1.45	.004	----	111	1664 -	30	30.50B	.15
2375	.70	1.95B	.50A	----	.45-	1.55	.004	----	1670	8238 -	222	31.00B	.15
2380	.95	2.00B	.45	----	.45-	1.60	.004	----	57	3951 +	57	31.50B	.15A
2385	.80	#.90	*.60A	----	.50	NEW	.005	----	55	55 +	55	.90	.60A
2390	1.05	2.10B	.55A	----	.50-	1.70	.005	----	854	2483 +	684	32.50B	.15
2395	.85	#2.60	*.65A	----	.50	NEW	.005	----	80	50 +	50	2.60	.65A
2400	1.25	4.00	.45	----	.50-	1.80	.005	----	8816	12328 +	1397	33.75B	.15
2405	1.05	#1.60	*.65A	----	.55	NEW	.006	----	27	26 +	26	1.60	.65A
2410	1.20	3.90	.65A	----	.55-	1.90	.006	----	76	1292 +	9	35.00B	.15
2415	1.05	#3.15	*.70A	----	.60	NEW	.006	----	69	69 +	69	3.15	.70A
2420	1.05	2.95	.55	----	.60-	2.00	.006	----	171	4598 +	23	36.25B	.15
2425	1.10	2.55B	.55	----	.65-	2.05	.007	----	506	5158 -	71	36.75B	.25
2430	1.10	4.35	.75	----	.65-	2.15	.007	----	876	1754 +	657	37.50B	.25
2435	1.35	3.80	.50	----	.70-	2.20	.008	----	2185	2352 +	1513	30.00B	.25
2440	1.25	2.80B	.60	----	.70-	2.30	.008	----	364	1984 +	153	38.75B	.30A
2445	1.20	4.05	.80A	----	.75-	2.35	.009	----	193	1702 +	135	31.25B	.25A
2450	2.60	5.25	.80	----	.75-	2.50	.009	----	8651	9298 +	286	40.25B	.25
2455	1.30	4.95	.85A	----	.80-	2.60	.009	----	203	1998 +	172	32.25B	.25A
2460	1.35	4.00	.95A	----	.80-	2.70	.009	----	299	886	UNCH	41.75B	.25A
2465	3.00	5.25	.95A	----	.85-	2.80	.010	----	3513	13733 -	1158	33.50B	.25
2470	1.55	5.75	1.00A	----	.90-	2.90	.011	----	665	1512 -	328	43.25B	.25
2475	2.65	6.00	1.00A	----	.95-	3.00	.012	----	1260	4013 -	30	44.00B	.35A
2480	2.95	4.85	.90	----	1.00-	3.10	.012	----	1199	6744 -	371	44.75B	.35A
2485	3.00	5.25	.80	----	1.05-	3.20	.013	----	58	2571 +	52	38.25B	.35
2490	3.00	5.50	1.00	----	1.10-	3.30	.014	----	3190	3723 +	2018	46.25B	.35A
2495	1.80	5.50	1.25A	----	1.15-	3.40	.015	----	553	1118 -	215	39.75B	.40A
2500	4.25	6.25	.85	----	1.20-	3.55	.016	----	10187	13832 +	2771	48.00B	.30
2505	2.10	6.00	1.30A	----	1.25-	3.70	.016	----	89	2537 -	14	41.00B	.40
2510	2.25	6.00	1.25	----	1.35-	3.75	.018	----	312	1793 +	127	49.75B	.35A
2515	2.35	6.25	1.35A	----	1.40-	3.90	.019	----	422	2096 +	230	42.75B	.40A
2520	2.75	4.80B	1.40	----	1.45-	4.05	.020	----	596	3333 +	448	51.50B	.40A
2525	4.00	6.25	1.40	----	1.55-	4.25	.021	----	3494	2778 +	499	52.50B	.40A
2530	1.95	7.75	1.55	----	1.60-	4.40	.022	----	1040	1713 +	186	53.50B	.40A
2535	3.05	7.00	1.55	----	1.70-	4.60	.024	----	703	1397 +	447	46.00B	.45A
2540	3.00	6.00	1.85A	----	1.80-	4.70	.025	----	504	1611 +	12	55.50B	.40A
2545	3.80	9.25	1.75	----	1.95-	4.85	.027	----	1055	3011 +	577	47.75B	.45
2550	5.00	9.25	1.85	----	2.05-	5.05	.029	----	7401	7169 +	1024	57.50B	.45A
2555	5.25	10.00	2.05	----	2.15-	5.25	.031	----	261	3163 -	57	49.50B	.55A
2560	5.25	10.00	1.90	----	2.30-	5.50	.033	----	964	2463 +	169	59.50B	.50
2565	6.00	10.75	2.20	----	2.40-	5.70	.035	----	1251	3218 +	279	51.50B	.50A
2570	4.50	11.25	2.35	----	2.55-	5.85	.037	----	1676	2969 +	771	61.75B	.50A
2575	6.25	10.50	2.25	----	2.70-	6.10	.040	----	2812	5020 -	176	63.00B	.55A
2580	6.75	12.00	2.65	----	2.90-	6.30	.043	----	676	2489 +	428	64.00B	.55A
2585	4.85	9.50	2.55	----	3.10-	6.50	.046	----	1134	1623 +	369	56.00	.60A
2590	9.00	10.50	2.70	----	3.30-	6.80	.050	----	3274	5027 +	1327	66.50B	.60A
2595	5.75	11.00	3.25	----	3.50-	7.00	.053	----	1010	1701 +	100	57.75B	.60A
2600	5.50	14.50	3.00	----	3.75-	7.25	.057	----	17003	11553 -	3861	69.00B	.65
2605	6.00	14.75	3.65	----	4.00-	7.50	.061	----	767	2275 -	77	60.00B	.65A
2610	7.00	14.75	3.50	----	4.25-	7.85	.065	----	1140	3184 +	303	71.50B	.70A
2615	5.00	16.00	4.00	----	4.55-	8.15	.070	----	236	2658 -	65	62.25B	.70A
2620	7.50	15.50	3.75	----	4.85-	8.45	.075	----	1293	2281 +	74	74.25B	.75A
2625	6.25	16.00	4.30	----	5.20-	8.70	.081	----	1857	5026 +	393	75.75B	.75
2630	7.25	16.											



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Table with columns: PG48, BULLETIN #198@, E-MINI S&P 500 PUT OPTIONS, Fri, Oct 12, 2018, PG48. Contains multiple columns of numerical data representing option prices and volumes.



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PG48	BULLETIN #198@	E-MINI S&P 500 PUT OPTIONS										Fri, Oct 12, 2018		PG48
2755	80.25	#99.50B	77.25A	----	83.90-	14.70	.447	----	55	36 +	12	99.50B	28.25A	
2760	----	#101.50B	79.00A	----	85.60-	15.00	.456	----	2	107	UNCH	101.50B	28.75A	
2765	----	#103.50B	80.50A	----	87.40-	15.20	.464	----	10	255 +	10	103.50B	29.50A	
2770	102.50	#105.50B	82.25A	----	89.10-	15.50	.473	----	89	171 +	89	105.50B	30.00A	
2775	----	107.50B	84.00A	----	90.90-	15.80	.482	----	10	582 +	3	116.50	30.75A	
2780	----	109.50B	85.75A	----	92.80-	15.90	.491	----	67	7	UNCH	113.75	31.50A	
2790	----	#114.00B	89.50A	----	96.50-	16.30	.509	----	6	7 +	6	114.00B	32.75A	
2800	97.00	#118.25B	93.50A	----	100.50-	16.70	.528	----	7	801 +	5	118.25B	34.25A	
2805	----	#120.75B	95.50A	----	102.50-	17.00	.537	----	39	39	UNCH	120.75B	35.00A	
2810	----	#122.75B	97.50A	----	104.60-	17.30	.547	----	544	UNCH	UNCH	122.75B	35.75A	
2815	----	#125.50B	99.50A	----	106.80-	17.50	.557	----	19	UNCH	UNCH	125.50B	36.50A	
2820	----	128.00B	101.75A	----	109.00-	17.90	.567	----	71	UNCH	UNCH	138.75	37.25A	
2825	125.25	130.50B	104.00A	----	111.30-	18.20	.577	----	3	90 +	3	152.50	38.25A	
2830	127.00	#133.00B	106.25A	----	113.60-	18.50	.587	----	3	113 +	3	133.00B	39.00A	
2835	128.00	135.50B	108.50A	----	116.00-	18.80	.597	----	2	84	UNCH	139.50	40.00A	
2840	122.25	#138.25B	111.00A	----	118.50-	19.10	.607	----	2	79 -	1	138.25B	41.00A	
2845	123.50	141.00B	113.25A	----	121.00-	19.40	.618	----	1	138	UNCH	152.25	41.75A	
2850	121.00	143.75B	115.75A	----	123.60-	19.60	.628	----	4	1317	UNCH	155.25	42.75A	
2855	139.00	#146.75B	118.25A	----	126.30-	19.70	.639	----	4	228	UNCH	146.75B	43.75A	
2860	142.00	149.50B	120.75A	----	129.00-	19.90	.649	----	1	404	UNCH	161.00	44.75	
2865	146.50	#152.50B	123.50A	----	131.70-	20.10	.659	----	4	102 +	2	152.50B	46.00A	
2870	148.00	#155.50B	126.25A	----	134.60-	20.20	.670	----	2	303 +	2	155.50B	47.00A	
2875	143.00	#158.75B	129.00A	----	137.50-	20.40	.680	----	2	355 +	2	158.75B	48.00A	
2880	144.00	#161.75B	131.75A	----	140.40-	20.60	.691	----	2	419	UNCH	161.75B	49.25A	
2885	151.75	#165.00B	134.50A	----	143.40	NEW	.702	----	1	1	+	165.00B	50.50A	
2890	149.25	#168.25B	137.50A	----	146.40-	21.00	.712	----	1	286	UNCH	168.25B	51.75A	
2895	144.25	#171.50B	140.50A	----	149.60-	21.10	.723	----	1	21 +	1	171.50B	53.00A	
2900	158.50	#174.75B	143.50A	----	152.70-	21.40	.733	----	1	558	UNCH	174.75B	54.25A	
2905	166.50	#178.25B	147.25A	----	156.00-	21.50	.744	----	1	70 -	1	178.25B	55.50A	
2910	----	#181.75B	150.25A	----	159.30-	21.70	.754	----	----	267	UNCH	181.75B	57.00A	
2915	174.25	#185.50B	153.75A	----	162.70	NEW	.764	----	2	2 +	2	185.50B	58.25A	
2920	----	#189.00B	157.00A	----	166.20-	22.10	.774	----	----	171	UNCH	189.00B	59.75A	
2925	173.75	#192.75B	160.50A	----	169.80-	22.20	.784	----	1	279	UNCH	192.75B	61.25A	
2930	184.75	#196.50B	164.00A	----	173.40-	22.40	.793	----	2	27 -	2	196.50B	62.75A	
2935	----	#200.25B	167.50A	----	177.10-	22.60	.802	----	----	28	UNCH	200.25B	64.50A	
2940	----	#204.00B	171.00A	----	180.90-	22.70	.811	----	----	48	UNCH	204.00B	66.25A	
2945	----	#208.00B	174.75A	----	184.70-	22.80	.821	----	----	8	UNCH	208.00B	67.75A	
2950	----	#212.00B	178.50A	----	188.60-	22.90	.829	----	----	147	UNCH	212.00B	69.75A	
2955	----	#216.00B	182.25A	----	192.60-	23.00	.837	----	----	10	UNCH	216.00B	71.50A	
2960	----	#220.00B	186.00A	----	196.60-	23.00	.845	----	----	80	UNCH	220.00B	73.50A	
2965	----	#224.00B	190.00A	----	200.70-	23.00	.853	----	----	4	UNCH	224.00B	75.25A	
2975	----	#232.25B	198.00A	----	209.00-	23.10	.868	----	----	1	UNCH	232.25B	79.50A	
2980	----	#236.50B	202.00A	----	213.20-	23.10	.875	----	----	13	UNCH	236.50B	81.75A	
2985	----	#240.75B	206.25A	----	217.50-	23.10	.882	----	----	6	UNCH	240.75B	84.00A	
2990	----	----	210.50A	----	221.80-	23.20	.888	----	----	1	UNCH	240.00B	86.25A	
2995	----	#249.50B	214.75A	----	226.20-	23.10	.894	----	----	1	UNCH	249.50B	88.50A	
3000	----	----	219.00A	----	230.60-	23.10	.900	----	----	2	UNCH	248.75B	91.00A	
3010	----	----	228.00A	----	239.50-	23.20	.911	----	----	3	UNCH	232.00B	96.25A	
3050	----	----	----	----	276.50-	23.30	.943	----	----	2	UNCH	221.75B	121.25A	
3500	----	----	----	----	720.00-	22.90	.997	----	----	1934	UNCH	611.75B	----	
TOTAL									12825	64322 +	9882			
MDW MID		(FUTURES SETT. 00)												
OCT18		* .05A	----	----	.05-	0.10	----	----	----	1	UNCH	.20	.05A	
1825	----	* .10A	----	----	.05	NEW	----	----	790	790 +	790	----	.10A	
1850	----	* .10A	----	----	.05	NEW	.000	----	76	76 +	76	.30	.10A	
1875	.30	#.30	----	----	.05	0.15	.000	----	221	223 +	221	.25	.05A	
1900	----	.10A	----	----	.05	0.15	.000	----	52	UNCH	UNCH	.35	.05A	
1925	----	.10A	----	----	.05	0.20	.000	----	100	UNCH	UNCH	.60	.05A	
1950	----	.10A	----	----	.30	NEW	.001	----	101	101 +	101	.85	.40A	
1975	.85	#.85	*.40A	----	.05	0.20	.000	----	2	75 +	2	.40	.05A	
1975	.40	#.40	.10A	----	.05	0.25	.000	----	143	2034 +	76	.50	.05A	
2000	.15	#.50	.10A	----	.05	0.25	.000	----	64	400	UNCH	.65	.05A	
2025	.65	#.65	.10A	----	.10	NEW	.000	----	4	4 +	4	.25B	.05A	
2050	.15	.15	.10A	----	.10	NEW	.000	----	56	56 +	56	.75	.10A	
2090	.75	#.75	*.10A	----	.10	NEW	.000	----	1266	957 +	858	.55	.05	
2100	.10	#.55	.10	----	.45	0.50	.003	----	19	UNCH	UNCH	1.75	.55A	
2120	----	----	*.55A	----	.10	NEW	.000	----	266	266 +	266	.40B	.05A	
2125	----	----	.15A	----	.45	NEW	.003	----	25	25 +	25	1.00	.60A	
2130	1.00	#1.00	*.60A	----	.10	0.40	.000	----	10	UNCH	UNCH	.50	.10A	
2150	----	----	.15A	----	.50	0.60	.004	----	103	UNCH	UNCH	2.05	.65A	
2160	----	----	*.65A	----	.55	NEW	.004	----	18	18 +	18	1.90	.65A	
2170	1.90	#1.90	*.65A	----	.10	0.45	.000	----	168	486 +	166	.70	.15A	
2170	.70	#.70	*.15A	----	.55	NEW	.004	----	303	303 +	303	1.00	.65A	
2175	.95	#1.00	*.65A	----	.10	0.50	.000	----	25	103	UNCH	1.35	.05	
2175	.75	.75	.15A	----	.55	NEW	.004	----	75	75 +	75	1.20	.65A	
2180	1.20	#1.20	*.65A	----	.60	0.65	.005	----	116	71 -	29	2.05	.70A	
2190	2.05	#2.05	*.70A	----	.10	0.50	.000	----	35	36 +	9	.95	.10A	
2190	.25	.95	.15A	----	.60	0.70	.005	----	250	269 +	250	1.35	.70A	
2200	1.35	#1.35	*.70A	----	.10	0.55	.000	----	519	282 +	94	.70	.10A	
2200	.50	.55B	.10	----	.60	NEW	.005	----	17	17 +	17	1.80	.70A	
2210	1.80	#1.80	*.70A	----	.10	NEW	.000	----	79	59 +	59	1.20	.10A	
2210	.25	#1.20	.20A	----	.10	NEW	.000	----	77	35 +	35	1.15	.10A	
2220	.25	#1.15	.20A	----	.10	NEW	.000	----	30	UNCH	UNCH	.85	.10A	
2225	----	----	.20A	----	.10	NEW	.000	----	32	32 +	32	.65B	.10A	
2230	.25	.65B	.20A	----	.10	NEW	.000	----	75	75 +	75	1.30	.10A	
2240	.45	#1.30	.20A	----	.70	0.90	.006	----	10	UNCH	UNCH	1.80	.80A	
2250	----	1.65B	*.80A	----	.10	0.70	.000	----	84	42 +	32	1.35	.10A	
2250	.30	#1.35	.20A	----	.10	NEW	.000	----	44	44 +	44	.80B	.10A	
2260	.50	#.80B	.20A	----	.10	NEW	.00							



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FINAL

PG48	BULLETIN #198@	E-MINI S&P 500 PUT OPTIONS										Fri, Oct 12, 2018	PG48
2500	1.50	#5.50	.65	----	-.70-	2.65	.008	----	2522	2677 +	938	5.50	.25A
2505	2.00	3.05B	.90A	----	-.75-	2.75	.009	----	145	333 +	145	3.65	.25A
2510	3.70	#7.00B	*3.35A	----	3.30	NEW	.041	----	117	117 +	117	7.00B	3.35A
2515	1.20	1.20	*3.95A	----	1.80-	2.85	.010	----	16	120	UNCH	6.00	.25A
2515	8.00	#8.00	*3.50A	----	3.45	NEW	.043	----	5	5 +	5	8.00	3.50A
2515	1.30	3.30B	.95A	----	1.85-	2.95	.010	----	426	702 +	160	8.25	.25A
2520	8.50	#8.50	*3.65A	----	3.55	NEW	.044	----	10	10 +	10	8.50	3.65A
2520	1.35	#5.25	1.00A	----	1.90	NEW	.011	----	302	208 +	208	5.25	.25A
2525	1.60	3.50B	1.05A	----	1.95	3.20	.012	----	1472	1572 +	1419	3.80B	.25A
2530	5.25	#8.00B	*3.95A	----	3.90	NEW	.049	----	30	20 +	20	8.00B	3.95A
2530	2.80	#6.25	1.05A	----	1.00-	3.30	.013	----	840	661 +	623	6.25	.30A
2535	4.40	8.25B	*4.10A	----	4.05-	4.75	.051	----	60	67 +	60	8.25B	4.10A
2535	2.00	5.00	1.10A	----	1.05-	3.45	.014	----	429	442 +	276	5.00	.30A
2540	4.70	8.50B	*4.25A	----	4.25-	4.85	.054	----	10	50 +	10	8.50B	4.25A
2540	3.00	5.00	1.15A	----	1.15-	3.45	.015	----	148	152 +	114	5.25	.30A
2545	4.90	9.00B	*4.45A	----	4.45-	5.05	.056	----	10	46 +	10	9.00B	4.45A
2545	1.95	9.00B	1.20A	----	1.20-	3.75	.016	----	154	526 +	120	6.25	.30A
2550	5.00	#9.25B	*4.50A	----	4.65	NEW	.059	----	10	10 +	10	9.25B	4.50A
2550	2.05	4.30B	1.25A	----	1.25-	3.85	.017	----	974	1746 +	445	11.00	.30A
2555	----	----	*4.85A	----	4.85-	5.35	.062	----	---	27	UNCH	12.75	4.85A
2555	2.00	5.25	1.30A	----	1.35-	4.05	.019	----	77	336 -	14	6.25	.35A
2560	9.25	10.00B	*5.00A	----	5.10-	5.50	.065	----	7	15 +	7	13.25	5.00A
2560	2.95	#7.75	1.40A	----	1.40-	4.20	.020	----	1381	1235 +	1192	7.75	.35A
2565	----	----	*5.25A	----	5.30-	5.70	.068	----	---	40	UNCH	10.50B	5.25A
2565	1.95	8.00	1.40A	----	1.50-	4.40	.021	----	590	421 +	195	8.00	.35A
2570	7.00	10.75B	5.50A	----	5.60-	5.90	.072	----	6	32 +	6	11.00B	5.25
2570	3.40	#8.25	1.20	----	1.55-	4.55	.022	----	758	980 +	635	8.25	.35A
2575	7.50	#16.00	*5.75A	----	5.90-	6.00	.076	----	18	11 +	4	16.00	5.75A
2575	5.00	5.25B	1.65	----	1.65-	4.75	.024	----	91	244 +	91	7.75	.35A
2580	----	----	*6.00A	----	6.10-	6.30	.079	----	---	14	UNCH	11.75B	6.00A
2580	2.20	5.50B	1.65	----	1.75-	4.95	.026	----	10	321 +	7	8.50	.40A
2585	7.25	12.25B	*6.25A	----	6.40-	6.50	.083	----	122	122 +	94	15.00	6.25A
2585	2.75	7.25	1.95A	----	1.90-	5.20	.029	----	133	469 -	87	8.50	.40A
2590	7.00	12.75B	*6.50A	----	6.70-	6.80	.088	----	19	29 +	19	15.50	6.50A
2590	2.40	8.75	2.05A	----	2.00-	5.40	.031	----	469	492 +	243	9.00	.35
2595	2.95	#10.25	2.15A	----	2.15-	5.65	.033	----	286	451 +	121	10.25	.40A
2600	15.50	#15.50	*7.25A	----	7.40-	7.20	.097	----	23	28 +	23	15.50	7.25A
2600	6.00	9.25	1.80	----	2.30-	5.90	.036	----	1256	2091 +	519	16.50	.45
2605	15.50	#15.50	*7.50A	----	7.80-	7.40	.102	----	60	67 +	60	15.50	7.50A
2605	5.00	10.25	2.45A	----	2.45-	6.25	.039	----	198	358 +	159	17.25	.40
2610	8.25	#17.50	*8.00A	----	8.10	NEW	.107	----	22	22 +	22	17.50	8.00A
2610	3.95	9.00	2.60A	----	2.60-	6.50	.042	----	75	169 +	22	11.50	.45A
2615	10.75	#16.75	*8.25A	----	8.50-	8.10	.112	----	127	56 -	3	16.75	8.25A
2615	6.50	8.00B	2.75A	----	2.80-	6.80	.045	----	20	157 +	20	14.75	.50A
2620	11.25	#17.75	*8.75A	----	8.90-	8.40	.118	----	71	79 +	71	17.75	8.75A
2620	4.00	11.75	2.95A	----	3.00-	7.20	.049	----	253	328 +	148	19.75	.45
2625	10.75	17.25B	*9.00A	----	9.30-	8.70	.124	----	13	13 +	6	25.00	9.00A
2625	3.20	9.00B	3.00	----	3.25-	7.45	.054	----	312	408 +	265	12.75	.50A
2630	6.25	#12.25	3.30A	----	3.45-	7.85	.058	----	174	342 +	12	12.25	.55A
2635	----	----	*10.00A	----	10.30-	9.30	.137	----	---	38	UNCH	18.75B	10.00A
2635	11.50	#12.00	3.50A	----	3.70-	8.20	.063	----	330	256 +	136	12.00	.55A
2640	4.75	14.25	3.75A	----	4.00-	8.60	.068	----	355	798 +	88	23.75	.60A
2645	15.50	#21.75	*11.00A	----	11.30	NEW	.151	----	50	50 +	50	21.75	11.00A
2645	6.75	15.00	4.05A	----	4.30-	9.00	.074	----	122	469 -	6	18.25	.60A
2650	12.00	21.25B	*11.50A	----	11.90-	10.30	.159	----	10	11	UNCH	21.50B	11.50A
2650	7.50	#18.00	4.30A	----	4.60-	9.40	.080	----	942	751 +	287	18.00	.60A
2655	12.50	#22.75	*12.00A	----	12.50	NEW	.167	----	56	36 +	36	22.75	12.00A
2655	7.50	16.50	4.50	----	4.90-	9.90	.086	----	284	257 +	42	27.25	.65A
2660	17.50	23.25B	*12.75A	----	13.10-	11.10	.176	----	19	40 +	19	23.25B	12.75A
2660	8.25	17.00	4.65	----	5.30-	10.30	.094	----	293	369 +	80	17.25	.70A
2665	17.75	24.25B	*13.25A	----	13.80-	11.40	.185	----	9	42 +	9	24.25B	13.25A
2665	6.75	#18.50	5.50A	----	5.70-	10.70	.102	----	232	196 -	2	18.50	.70A
2670	14.50	#26.50	*14.00A	----	14.50-	11.80	.194	----	68	86 +	4	26.50	14.00A
2670	7.50	20.00	5.75A	----	6.10-	11.30	.110	----	369	484 -	38	25.25	.75A
2675	15.50	#27.75	*14.75A	----	15.30-	12.10	.204	----	26	33 -	8	27.75	14.75A
2675	7.25	19.00	6.00	----	6.60-	11.80	.120	----	674	665 +	428	25.50	.75A
2680	16.50	#28.50	*15.50A	----	16.10-	12.50	.215	----	84	61 +	6	28.50	15.50A
2680	10.00	19.50	6.25	----	7.10-	12.40	.130	----	245	235 -	24	27.50	.75A
2685	26.75	28.75B	16.25A	----	16.90-	12.90	.226	----	50	55 +	50	29.00B	14.00
2685	11.25	22.00	6.75	----	7.60-	13.10	.140	----	299	453 +	193	26.75	.80A
2690	19.50	#30.00B	*17.00A	----	17.80	NEW	.237	----	172	72 +	72	30.00B	17.00A
2690	21.50	23.25	8.00A	----	8.30-	13.70	.153	----	346	702 +	199	28.25	.80
2695	18.75	#33.50	*18.00A	----	18.70	NEW	.249	----	69	60 +	60	33.50	18.00A
2695	11.50	20.00B	7.25	----	8.90-	14.50	.166	----	79	363 +	31	41.00	.85A
2700	20.00	27.75	8.75	----	9.70-	15.10	.181	----	1261	1351 +	143	39.25	.90A
2705	12.25	10.00A	28.50	----	10.50-	15.80	.196	----	174	250 -	30	37.75	.90A
2710	18.25	20.75B	18.25	----	21.80-	14.90	.288	----	7	9	UNCH	35.75B	17.75
2710	14.25	29.00	9.75	----	11.30-	16.50	.212	----	519	580 +	261	40.25	1.00A
2715	28.75	37.00B	22.00A	----	22.90-	15.40	.302	----	21	69 +	1	39.25	2.00
2715	14.75	25.25B	11.50A	----	12.20-	17.20	.229	----	300	1047 -	15	37.00	1.00
2720	23.75	38.50B	23.00A	----	24.10-	15.80	.317	----	10	40 -	6	40.25	19.75
2720	19.50	32.75	12.25	----	13.20-	17.80	.248	----	460	425 +	181	45.50	1.05A
2725	30.75	40.50	24.25A	----	25.30-	16.30	.332	----	20	14 +	7	40.75B	24.25
2725	16.50	30.75	11.75	----	14.20-	18.40	.267	----	483	526 +	187	40.25	1.10A
2730	28.25	42.50	25.25A	----	26.60-	16.70	.348	----	176	153 +	130	42.50B	24.50
2730	16.00	32.25	12.00	----	15.40-	18.80	.288	----	308	412 +	99	42.25	1.20A
2735	39.25	39.25	*26.75A	----	28.00-	17.20	.365	----	6	21 -	6	44.25B	26.75A
2735	21.00	34.00	15.50A	----	16.50-	19.40	.310	----	305	914 +	129	35.75	1.25A
2740	46.25	46.25	*28.00A	----	29.40-	17.70	.382	----	56	43 +	23	46.25B	28.00A
2740	28.50	36.00	15.00	----	17.80-	19.90	.334	----	262	1101 +	110	56.25	1.35A
2745	----	----	29.50A	----	30.80-	18.30	.400	----	---	22	UNCH	48.00B	29.25
2745	19.75	36.25	17.50	----	19.10-	20.50	.359	----	342	234 +	6	38.00B	1.40A
2750	39.75	49.50B	30.75A	----	32.40-	18.70	.419	----	12	46 +	12	50.25B	30.00
2750	35.25	44.00	19.25A	----	20.60-	21.00	.385	----	499	784 +	145	50.00	1.50A
2755	47.75	51.50B	32.50A	----	34.00-	19.30	.438	----	22	36	UNCH	71.75	31.25
2755	22.50	40.00B	17.75	----	22.10-	21.70	.413	----	62	358 +	20	60.25	1.60A
2760	----	----	34.00A	----	35.70-	19.80	.458	----	---	39	UNCH	54.50	



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PG48	BULLETIN #198@	E-MINI S&P 500 PUT OPTIONS										Fri, Oct 12, 2018		PG48
2930	----	----	157.25A	----	161.60-	23.30	.997	----	----	3	UNCH	103.75B	28.50A	
2940	----	----	167.75A	----	171.60-	23.30	.997	----	----	4	UNCH	94.75B	34.75A	
2945	----	----	172.75A	----	176.60-	23.20	.997	----	----	1	UNCH	82.50B	38.25A	
2975	----	----	202.25A	----	206.60-	23.10	.999	----	----	1	UNCH	100.00B	64.75A	
TOTAL										39018	68225 +	1430		
MMW MID			(FUTURES SETT. .00)											
OCT18	MMW MID													
1825	.05	#.05	*.05	----	.05	UNCH	----	----	40	40 +	40	.05	.05	
1850	.05	*.05	*.05	----	.05	UNCH	----	----	40	67 +	40	.10	.05	
1900	.05	#.05	*.05	----	.05	UNCH	----	----	51	51 +	51	.05	.05	
1900	----	----	*.20A	----	.15-	0.20	.000	----	----	3	UNCH	.30B	.20A	
1925	----	----	*.05A	----	.05-	0.05	----	----	----	1	UNCH	.15B	.05A	
1950	----	----	*.05A	----	.05-	0.05	----	----	----	28	UNCH	.20	.05A	
1975	----	----	*.05A	----	.05-	0.05	----	----	----	1	UNCH	.20	.05A	
2000	.40	.40	*.05	----	.05-	0.05	----	----	31	82 +	1	.60	.05	
2025	.25	#.40	*.05A	----	.05-	0.10	----	----	7	12 -	3	.40	.05A	
2050	.45	#.45	*.05A	----	.05-	0.10	----	----	3192	3230 +	3182	.45	.05A	
2050	----	----	*.30A	----	.25-	0.35	.001	----	----	7	107 +	.50B	.30A	
2070	.25	#.25	*.05A	----	.05-	NEW	----	----	500	500 +	500	.25	.05A	
2075	.40	#.40	*.05A	----	.05-	0.10	----	----	25	25 +	2	.40	.05A	
2090	.10	#.10	*.05A	----	.05-	NEW	----	----	500	500 +	500	.10	.05A	
2100	.15	#.55	.05A	----	.05-	0.15	----	----	54	81 +	32	.55	.05A	
2125	.20	#.40	.05A	----	.05-	0.20	----	----	29	102	UNCH	.40	.05A	
2125	----	----	*.35A	----	.25-	0.50	.001	----	----	97	UNCH	.65B	.15A	
2140	.50	#.50	*.05A	----	.05-	NEW	----	----	20	20 +	20	.50	.05A	
2150	.05	#.90	.05	----	.05-	0.20	----	----	96	94 +	24	.90	.05	
2150	----	----	*.40A	----	.30-	0.55	.002	----	----	100	UNCH	.70B	.10A	
2160	.60	#.60	*.05A	----	.05-	0.25	----	----	19	30	UNCH	.60	.05A	
2170	----	----	*.40A	----	.30-	0.60	.002	----	----	3	UNCH	.75B	.10A	
2170	.05	#.65	*.05	----	.05-	0.25	----	----	20	133 +	19	.65	.05	
2175	.40	#.65	*.10A	----	.05-	0.25	----	----	79	128 +	75	.65	.05A	
2175	----	----	*.40A	----	.30-	0.65	.002	----	----	10	UNCH	.75B	.10A	
2180	.65	#.85	*.10A	----	.05-	0.25	----	----	120	93 +	23	.85	.10	
2190	.90	#1.05	*.10A	----	.05-	0.30	----	----	55	84 -	18	1.05	.05A	
2200	.10	#1.10	.05	----	.05-	0.30	----	----	604	863 +	330	1.10	.05A	
2200	----	----	*.45A	----	.30-	0.75	.002	----	----	249	UNCH	.85B	.45A	
2210	.10	#.95	.10	----	.05-	0.30	----	----	753	642 +	637	.95	.05A	
2220	1.00	#1.00	*.10A	----	.05-	0.35	----	----	1041	972 +	967	1.00	.05A	
2220	----	----	*.50A	----	.35-	0.75	.003	----	----	239	UNCH	.90B	.50A	
2225	.35	#1.05	*.10A	----	.05-	0.35	----	----	351	166 +	161	1.05	.05A	
2230	.85	#1.15	*.10A	----	.05-	NEW	----	----	1555	1203 +	1203	1.15	.05A	
2240	1.40	#1.40	*.10A	----	.05-	0.40	----	----	260	131 +	121	1.40	.10A	
2250	.10	#1.05	.10	----	.05-	0.40	----	----	2124	2005 +	1963	1.05	.05	
2250	----	----	*.55A	----	.40-	0.85	.003	----	----	98	UNCH	1.40	.55A	
2260	.45	#1.20	*.10A	----	.05-	0.40	----	----	208	439 +	174	1.20	.10A	
2260	----	----	.55A	----	.40-	0.90	.003	----	----	3	UNCH	1.10B	.15	
2270	.55	#1.70	*.10A	----	.05-	0.45	----	----	733	697 +	595	1.70	.10A	
2270	1.35	1.35	*.55A	----	.45-	0.90	.004	----	137	268 +	137	1.55	.55A	
2275	1.05	#1.30	*.10A	----	.05-	0.45	----	----	526	449 +	324	1.30	.05	
2275	----	----	.55A	----	.45-	0.95	.004	----	----	100	UNCH	1.15B	.20	
2280	.15	#1.20	*.10A	----	.05-	0.45	----	----	850	983 +	542	1.20	.10A	
2280	----	----	.60A	----	.45-	0.95	.004	----	----	111	UNCH	1.20B	.20	
2290	.20	#1.45	*.10A	----	.05-	0.50	----	----	468	761 +	266	1.45	.10A	
2290	----	----	.60A	----	.45-	1.05	.004	----	----	297	UNCH	1.70	.20	
2300	.20	#1.45	*.05	----	.05-	0.50	----	----	3269	2929 +	2817	1.45	.05	
2300	----	----	.65A	----	.50-	1.05	.005	----	----	100	UNCH	1.35B	.20	
2310	.70	#1.50	*.10A	----	.05-	0.55	----	----	1055	999 +	970	1.50	.10A	
2310	.80	#2.70	*.65A	----	.50-	1.15	.005	----	52	151 +	51	2.70	.20	
2320	1.35	#1.60	*.10A	----	.05-	0.55	----	----	774	767 +	698	1.60	.10A	
2325	.20	#1.35	*.10A	----	.05-	0.60	----	----	3272	1281 +	1278	1.35	.10A	
2330	1.40	#1.40	*.10A	----	.05-	0.60	----	----	150	303 +	74	1.40	.10A	
2330	----	----	.70A	----	.60-	1.20	.006	----	----	4	UNCH	1.55B	.20	
2335	.15	#.80	*.15	----	.05-	NEW	----	----	133	133 +	133	.80	.15	
2340	1.50	#1.65	*.10A	----	.05-	0.65	.000	----	717	638 +	266	1.65	.10A	
2350	.25	#1.55	*.05	----	.05-	NEW	.000	----	3836	3558 +	3558	1.55	.05	
2350	----	----	*.80A	----	.65-	1.35	.007	----	----	109	UNCH	1.75B	.80A	
2360	.30	#1.50	*.15A	----	.05-	0.70	.000	----	519	520 +	476	1.50	.10A	
2360	3.40	#3.40	*.80A	----	.70-	1.45	.007	----	50	123 +	14	3.40	.80A	
2365	.20	#1.15	*.15A	----	.05-	0.70	.000	----	129	165 +	129	1.15	.15A	
2370	.50	1.05B	.15A	----	.05-	0.75	.000	----	3431	3390 +	3374	1.05	.10A	
2375	.30	#2.20	.10	----	.05-	0.75	.000	----	6111	4527 +	4364	2.20	.10A	
2380	.30	#1.55	.15A	----	.05-	0.75	.000	----	1079	1262 +	1007	1.55	.10A	
2380	1.20	#2.35B	.90A	----	.80-	NEW	.009	----	17	17 +	17	2.35B	.35A	
2385	.25	#1.15B	*.15A	----	.05-	0.80	.000	----	1977	1651 +	1551	1.15B	.15A	
2385	1.25	#2.40B	*.90A	----	.85-	NEW	.009	----	17	17 +	17	2.40B	.90A	
2390	.30	1.75	.15A	----	.05-	0.80	.000	----	968	945 +	921	2.00	.10A	
2395	.25	#2.20	*.10	----	.05-	0.85	.000	----	305	326 +	305	2.20	.10	
2400	.30	#2.45	*.05	----	.05-	0.85	.000	----	6389	3945 +	2526	2.45	.05	
2400	1.30	#3.25	*.95A	----	.90-	NEW	.010	----	411	122 +	122	3.25	.95A	
2405	.15	1.20B	*.15	----	.05-	0.90	.000	----	15	15 +	13	2.10	.15	
2410	.30	2.25	*.10	----	.05-	0.90	.000	----	4946	4688 +	4613	2.40	.10	
2410	----	----	*1.05A	----	.95-	1.95	.011	----	----	13	UNCH	3.70	1.05A	
2415	1.80	#1.80	*.20A	----	.05-	NEW	.000	----	121	121 +	121	1.80	.20A	
2420	.40	#1.95	.15	----	.05-	0.95	.000	----	557	620 +	533	1.95	.15A	
2420	5.00	#5.00	*1.10A	----	1.05-	2.05	.012	----	36	36 +	34	5.00	1.10A	
2425	.45	#1.90	.15	----	.05-	1.00	.000	----	3377	3150 +	3090	1.90	.15	
2430	.30	1.35B	.20A	----	.10-	0.95	.000	----	1286	1094 +	612	1.55	.15	
2435	1.45	#1.45	*.15	----	.10-	1.00	.000	----	329	419 +	319	1.45	.15	
2440	.35	#2.10	.15	----	.10-	1.00	.000	----	2583	2716 +	2567	2.10	.15	
2445	1.40	#1.55	*.15	----	.10-	NEW	.000	----	407	388 +	388	1.55	.15	
2450	.65	#2.60	.15	----	.10-	1.10	.000	----	3347	2105 +	1640	2.60	.15	
2450	2.80	#3.50B	*1.30A	----	1.25-	2.55	.015	----	12	70 -	8	8.00	1.30A	
2455	----	----	*1.35A	----	1.30-	2.60	.016	----	----	14	UNCH	3.55B	1.35A	
2455	.55	#1.50B	*.15	----	.10-	1.10	.000	----	146	112 +	96	1.50B	.15	
2460	.30	#2.40	.20	----	.10-	1.15	.000	----	31					



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Table with columns: PG48, BULLETIN #198@, E-MINI S&P 500 PUT OPTIONS, Fri, Oct 12, 2018, PG48. Contains multiple columns of numerical data representing option prices and volumes.

RTM EOM OCT18 RTM EOM (FUTURES SETT. .00)



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PG48	BULLETIN #198@	E-MINI S&P 500 PUT OPTIONS										Fri, Oct 12, 2018	PG48
1680	----	----	114.10A	----	130.70+	4.40	.994	----	----	75	UNCH	120.00B	8.10A
1685	----	----	117.60A	----	135.80+	4.20	.986	----	----	15	UNCH	136.80B	11.20A
1685	----	----	119.10A	----	135.70+	4.40	.994	----	----	126	UNCH	125.30B	8.80A
1690	----	#156.60B	122.80A	----	140.70+	4.10	.987	----	----	165	UNCH	156.60B	13.80A
1690	----	----	124.00A	----	140.70+	4.40	.996	----	----	90	UNCH	130.20B	9.70A
1695	----	----	127.50A	----	145.80+	4.30	.988	----	----	30	UNCH	135.40B	13.20A
1695	----	----	129.00A	----	145.60+	4.40	.996	----	----	138	UNCH	135.20B	10.60A
1700	----	----	132.40A	----	150.70+	4.30	.990	----	----	29	UNCH	140.00B	14.30A
1700	----	----	135.30A	----	151.00+	4.60	1.000	10	4	11	UNCH	140.00B	8.90A
1700	----	----	132.50A	----	150.60+	4.20	.991	----	----	1	UNCH	140.50B	16.10A
1700	----	----	134.00A	----	150.60+	4.40	.996	----	----	63	UNCH	139.80B	11.60A
1705	----	----	137.40A	----	155.70+	4.30	.990	----	----	6	UNCH	145.30B	15.50A
1705	----	----	138.90A	----	155.60+	4.40	.996	----	----	64	UNCH	145.10B	12.80A
1710	----	----	142.30A	----	160.70+	4.40	.992	----	----	1	UNCH	150.20B	16.80A
1710	----	----	143.90A	----	160.60+	4.40	.996	----	----	57	UNCH	150.10B	14.00A
1715	----	----	147.30A	----	165.70+	4.40	.992	----	----	2	UNCH	155.20B	18.30A
1715	----	----	147.30A	----	165.50+	4.30	.995	----	----	10	UNCH	155.30B	20.20A
1715	----	----	148.90A	----	165.60+	4.40	.996	----	----	22	UNCH	155.10B	15.40A
1720	----	----	152.30A	----	170.50+	4.30	.995	----	----	1	UNCH	160.20B	21.90A
1720	----	----	153.90A	----	170.60+	4.40	.997	----	----	9	UNCH	159.70B	17.00A
1725	----	----	157.20A	----	175.50+	4.30	.997	----	1	----	1	165.20B	23.60A
1725	----	----	158.80A	----	175.60+	4.40	.998	----	----	25	UNCH	164.60B	18.80A
1735	----	----	167.20A	----	185.40+	4.30	.998	----	1	----	1	174.70B	27.70A
1735	----	----	168.80A	----	185.60+	4.40	.999	----	----	10	UNCH	175.00B	22.90A
1740	----	----	173.80A	----	190.60+	4.40	.999	----	----	10	UNCH	180.00B	25.30A
1745	----	----	178.80A	----	195.60+	4.40	.999	----	----	21	UNCH	185.00B	28.20A
1750	----	----	183.80A	----	200.60+	4.40	.999	----	----	1	UNCH	190.00B	31.10A
1775	----	----	----	----	225.50+	4.30	.999	----	----	22	UNCH	160.80B	44.50A
1785	----	----	----	----	235.50+	4.30	.999	----	----	29	UNCH	157.40B	51.20A
1790	----	----	----	----	240.50+	4.30	.999	----	----	23	UNCH	173.70B	54.50A
1800	----	----	----	----	250.50+	4.30	.999	----	----	1	UNCH	182.60B	61.60A
1815	----	----	----	----	265.50+	4.30	.999	----	----	14	UNCH	187.00B	73.30A
TOTAL										660		5823	1065
NOV18	RTM EOM	(FUTURES SETT. .00)											
1050		1.15B			.90-	0.10	.008	----	----	50	UNCH	1.25B	.75
1100	.90	1.10B	.90		.85-	0.15	.009	----	3	83 +	3	1.35	.40A
1100		1.55B			1.20-	0.25	.012	----	----	50	UNCH	1.65B	.85
1175		1.75B	1.35A		1.25-	0.40	.015	----	----	40	UNCH	2.25B	.50A
1225		2.50B	1.75A		1.70-	0.65	.021	----	----	32	UNCH	3.00B	.65A
1240		2.80B	1.90A		1.90-	0.70	.024	----	----	1	UNCH	3.30B	.70A
1250		3.00B	2.05A		2.05-	0.75	.026	----	----	28	UNCH	3.50B	.75A
1260		3.25B	2.15A		2.20-	0.80	.029	----	----	30	UNCH	3.70B	.80A
1280	2.70	3.85B	2.50A		2.50	NEW	.033	----	6	6 +	6	4.15B	.90A
1300	3.10	4.55B	2.85A		2.95-	1.10	.040	----	4	134	UNCH	4.70B	.90A
1325		#5.60B	3.45A		3.65	NEW	.051	----	1	1 +	1	5.60B	1.05A
1330	3.95	#5.90B	3.55A		3.80	NEW	.053	----	5	5 +	5	5.90B	1.10A
1350		#9.60B	6.20A		6.70-	1.60	.083	----	----	110	UNCH	9.60B	1.75A
1360		#7.80B	4.55A		5.00-	1.70	.071	----	----	30	UNCH	7.80B	1.30A
1375		#9.10B	5.20A		5.80-	1.80	.083	----	----	19	UNCH	9.10B	1.40A
1380		#9.50B	5.50A		6.10-	1.90	.088	----	----	30	UNCH	9.50B	1.45A
1380		#12.60B	7.90A		8.70-	1.90	.109	----	----	10	UNCH	12.60B	2.10A
1390		#10.50B	6.00A		6.70-	2.00	.097	----	----	30	UNCH	10.50B	1.55A
1410		#12.90B	7.20A		8.30	NEW	.120	----	20	20 +	20	12.90B	1.70A
1420		#14.20B	8.40A		9.20-	2.40	.133	----	----	7	UNCH	14.20B	1.80A
1425		#15.00B	8.40A		9.70-	2.30	.140	----	----	32	UNCH	15.00B	1.85A
1430		#19.70B	12.00A		13.90-	2.40	.173	----	3	13 +	3	17.70B	2.80A
1440		#17.40B	9.70A		11.40-	2.60	.164	----	20	23 +	20	17.40B	2.05A
1450		#19.30B	10.80A		12.80-	2.70	.183	----	2	8 +	1	19.30B	2.20A
1450		#23.60B	14.50A		16.80-	2.50	.208	----	1	1	UNCH	23.60B	3.20A
1460	15.30	#21.30B	12.00A		14.20-	2.90	.203	----	1	10 -	1	21.30B	2.35A
1465		#26.90B	16.50A		19.40	NEW	.238	----	3	3 +	3	26.90B	14.20A
1470		#23.60B	13.30A		15.90-	2.90	.225	----	----	2	UNCH	23.60B	2.50A
1470		#16.80B	8.20A		9.80-	3.10	.179	----	----	60	UNCH	16.80B	2.60
1475		#24.70B	14.00A		16.80	NEW	.237	----	2	2 +	2	24.70B	2.60A
1475		#17.90B	8.80A		10.60-	3.10	.193	----	----	30	UNCH	17.90B	2.70A
1480		#30.80B	19.00A		22.50-	2.60	.273	----	----	3	UNCH	30.80B	3.95A
1480	16.50	#26.00B	14.80A		17.80-	3.00	.250	----	12	53 -	5	26.00B	2.70A
1485		#27.30B	15.60A		18.80-	3.00	.263	----	1	13 +	1	27.30B	2.80A
1490		#28.70B	16.50A		19.90-	3.00	.277	----	----	7	UNCH	28.70B	2.90A
1495		#30.20B	17.40A		21.10-	3.00	.292	----	----	60	UNCH	30.20B	3.00A
1500		#24.20B	12.20A		15.10-	3.50	.269	----	----	1	UNCH	24.20B	3.50A
1500		#36.80B	22.70A		27.30-	2.70	.325	----	----	11	UNCH	36.80B	4.55A
1500	19.10	#31.80B	18.40A		22.30-	3.00	.306	----	11	15 +	8	31.80B	3.15A
1505		#33.40B	19.40A		23.60-	3.00	.322	----	----	2	UNCH	33.40B	3.30A
1510	24.20	#35.10B	20.50A		24.90-	3.00	.338	----	195	287 -	43	35.10B	3.40A
1510		#40.10B	24.90A		30.10-	2.60	.353	----	----	5	UNCH	40.10B	4.90A
1515		#41.90B	26.10A		31.60-	2.60	.369	----	----	3	UNCH	41.90B	5.10A
1515		#36.80B	21.60A		26.30-	3.00	.355	----	10	25 -	2	36.80B	3.55A
1520	23.60	#38.70B	22.80A		27.90-	2.90	.373	----	10	9	UNCH	38.70B	3.70A
1525		#40.60B	24.00A		29.50-	2.80	.391	----	----	8	UNCH	40.60B	3.85A
1525		#45.70B	28.60A		34.70-	2.60	.400	----	1	1	UNCH	45.70B	5.50A
1530	27.00	#42.70B	25.20A		31.10-	2.90	.409	----	4	9 +	2	42.70B	4.00A
1530		#47.70B	29.90A		36.40-	2.50	.417	----	----	2	UNCH	47.70B	5.70A
1535	35.00	#44.80B	26.70A		32.90-	2.80	.429	----	1	2	UNCH	44.80B	4.20A
1535		#37.00B	19.50A		25.00-	3.30	.416	----	----	7	UNCH	37.00B	5.20A
1535		#49.80B	31.30A		38.20-	2.40	.434	----	1	13	UNCH	49.80B	6.00A
1540		#47.00B	28.10A		34.80-	2.60	.449	----	----	11	UNCH	47.00B	4.40A
1540		#52.00B	32.80A		40.10-	2.30	.451	----	----	5	UNCH	52.00B	6.20A
1545		#54.30B	34.40A		42.10-	2.20	.469	----	3	8 +	3	54.30B	6.50A
1545	38.40	#49.30B	29.50A		36.80-	2.50	.469	----	14	10 -	2	49.30B	4.55A
1550		#51.70B	31.20A		38.80-	2.50</							



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PG48	BULLETIN #198@	E-MINI S&P 500 PUT OPTIONS										Fri, Oct 12, 2018		PG48
1715	----	#182.10B	148.80A	----	166.50+	3.80	.961	----	1	1	UNCH	182.10B	31.70A	
1720	----	#186.70B	153.00A	----	171.00+	4.10	.976	----	1	81	UNCH	186.70B	28.20A	
1725	----	#191.60B	157.80A	----	175.90+	4.10	.979	----	----	25	UNCH	191.60B	30.00A	
1730	----	----	162.70A	----	180.80+	4.20	.981	----	----	8	UNCH	181.80B	32.00A	
1735	----	----	167.60A	----	185.70+	4.20	.982	----	----	20	UNCH	175.60B	34.10A	
1740	----	----	172.50A	----	190.70+	4.30	.984	----	----	9	UNCH	180.50B	36.30A	
1745	----	----	177.40A	----	195.60+	4.30	.985	----	----	3	UNCH	185.40B	38.70A	
TOTAL									441	3300 +	68			
DEC18	RTM EOM	(FUTURES SETT. .00)												
1370	----	#17.30B	11.60A	----	12.80-	1.90	.129	----	----	1	UNCH	17.30B	4.00A	
1400	----	#21.60B	14.40A	----	16.10	NEW	.161	----	5	5 +	5	21.60B	4.80A	
1545	----	#61.30B	42.90A	----	49.90	NEW	.453	----	5	5 +	5	61.30B	13.70A	
1565	----	#70.40B	50.00A	----	58.20-	1.60	.512	----	----	4	UNCH	70.40B	16.20A	
1570	----	#72.90B	51.90A	----	60.50-	1.50	.528	----	----	4	UNCH	72.90B	16.90A	
1575	----	#75.50B	53.90A	----	62.80-	1.40	.544	----	----	4	UNCH	75.50B	17.60A	
TOTAL									10	23 +	10			
JAN19	RTM EOM	(FUTURES SETT. .00)												
1250	7.40	#9.70B	6.80A	----	7.50	NEW	.066	----	8	8 +	8	9.70B	2.50A	
1300	12.50	#13.50B	9.30A	----	10.30-	1.50	.092	----	10	10 +	9	13.50B	3.20A	
1340	----	#17.60B	12.00A	----	13.50-	1.60	.120	----	----	1	UNCH	17.60B	4.00A	
1380	----	#23.00B	15.70A	----	17.80-	1.80	.158	----	----	1	UNCH	23.00B	4.90A	
1390	18.80	#24.60B	16.80A	----	19.10	NEW	.169	----	7	7 +	7	24.60B	5.20A	
1450	----	#36.30B	25.10A	----	29.00-	1.90	.252	----	----	1	UNCH	36.30B	7.50A	
1500	----	#50.20B	35.20A	----	40.90-	2.20	.346	----	----	1	UNCH	50.20B	10.00A	
1560	----	#73.80B	52.60A	----	61.90-	1.60	.494	----	----	14	UNCH	73.80B	14.80A	
1575	----	#81.10B	58.30A	----	68.70-	1.10	.535	----	----	13	UNCH	81.10B	16.40A	
1595	68.10	#91.90B	66.70A	----	78.80-	0.40	.593	----	1	----	1	91.90B	20.30A	
1600	----	#94.80B	68.90A	----	81.50-	0.20	.608	----	----	252	UNCH	94.80B	19.50A	
1620	----	#107.10B	78.80A	----	93.00+	0.30	.666	----	----	2	UNCH	107.10B	22.40A	
1700	----	#166.80B	133.50A	----	151.90+	3.00	.867	----	----	1	UNCH	166.80B	39.80A	
TOTAL									26	311 +	23			

E-MINI S&P 500 FIXING PRICE (ESF): Dec19 2769.52

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PG48 BULLETIN #198@

E-MINI S&P 500 PUT OPTIONS

Fri, Oct 12, 2018 PG48

OPTIONS EOO'S, BLOCKS and EXERCISES

PRODUCT	STRIKE PRICE	EOO VOLUME	BLOCK VOLUME	M-T-D BLOCK VOLUME	OPTION EXERCISES	M-T-D OPTION EXERCISES	Transfer VOLUME
EMINI S&P CALL							
DEC18 CALL	E-MINI S&P 500 OPTIONS						
EZ	1925	----	----	----	----	1	0.00
EZ	2000	----	----	----	----	7	0.00
EZ	2010	----	----	----	----	8	0.00
TOTALS		0	0	0	0	16	0
MAR19 CALL							
EZ	1825	----	----	----	----	4313	0.00
EZ	1900	----	----	----	----	1409	0.00
TOTALS		0	0	0	0	5722	0
EOW2 MINI S&P C							
OCT18 CALL	EOW2 E-MINI S&P 500 OPTIONS						
EW2	100	----	----	----	300	300	0.00
EW2	2300	----	----	----	39	39	0.00
EW2	2400	----	----	----	1	1	0.00
EW2	2600	----	----	----	1	1	0.00
EW2	2650	----	----	----	14	14	0.00
EW2	2655	----	----	----	10	10	0.00
EW2	2660	----	----	----	2	2	0.00
EW2	2670	----	----	----	1	1	0.00
EW2	2675	----	----	----	1	1	0.00
EW2	2685	----	----	----	1	1	0.00
EW2	2690	----	----	----	1	1	0.00
EW2	2695	----	----	----	2	2	0.00
EW2	2700	----	----	----	470	470	0.00
EW2	2705	----	----	----	2	2	0.00
EW2	2710	----	----	----	8	8	0.00
EW2	2715	----	----	----	6	6	0.00
EW2	2720	----	----	----	923	923	0.00
EW2	2725	----	----	----	159	159	0.00
EW2	2730	----	----	----	354	354	0.00
EW2	2735	----	----	----	784	784	0.00
EW2	2740	----	----	----	1459	1459	0.00
EW2	2745	----	----	----	535	535	0.00
EW2	2750	----	----	----	2397	2397	0.00
EW2	2755	----	----	----	1984	1984	0.00
EW2	2760	----	----	----	2561	2561	0.00
EW2	2765	----	----	----	1124	1124	0.00
TOTALS		0	0	0	13139	13139	0
EOW2 MINI S&P P							
OCT18 PUT	EOW2 E-MINI S&P 500 OPTIONS						
EW2	2770	----	----	----	3892	3892	5.00
EW2	2775	----	----	----	2447	2447	40.00
EW2	2780	----	----	----	2714	2714	0.00
EW2	2785	----	----	----	1365	1365	0.00
EW2	2790	----	----	----	3498	3498	5.00
EW2	2795	----	----	----	1896	1896	0.00
EW2	2800	----	----	----	6316	6316	55.00
EW2	2805	----	----	----	2443	2443	0.00
EW2	2810	----	----	----	2516	2516	0.00
EW2	2815	----	----	----	1501	1501	0.00
EW2	2820	----	----	----	3134	3134	0.00
EW2	2825	----	----	----	2151	2151	50.00
EW2	2830	----	----	----	2741	2741	85.00
EW2	2835	----	----	----	1551	1551	0.00
EW2	2840	----	----	----	2807	2807	50.00
EW2	2845	----	----	----	1464	1464	0.00
EW2	2850	----	----	----	4228	4228	0.00
EW2	2855	----	----	----	1605	1605	0.00
EW2	2860	----	----	----	3052	3052	0.00
EW2	2865	----	----	----	1700	1700	0.00
EW2	2870	----	----	----	2638	2638	85.00
EW2	2875	----	----	----	1851	1851	0.00
EW2	2880	----	----	----	2144	2144	140.00
EW2	2885	----	----	----	1747	1747	0.00
EW2	2890	----	----	----	2207	2207	0.00
EW2	2895	----	----	----	1099	1099	0.00
EW2	2900	----	----	----	2124	2124	70.00
EW2	2905	----	----	----	1824	1824	0.00
EW2	2910	----	----	----	2817	2817	0.00
EW2	2915	----	----	----	1050	1050	0.00
EW2	2920	----	----	----	1667	1667	0.00
EW2	2925	----	----	----	1354	1354	0.00
EW2	2930	----	----	----	985	985	0.00
EW2	2935	----	----	----	426	426	0.00

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PG48	BULLETIN #198@	E-MINI S&P 500 PUT OPTIONS					Fri, Oct 12, 2018	PG48
EW2	2940	----	----	----	556	556	0.00	
EW2	2945	----	----	----	357	357	0.00	
EW2	2950	----	----	----	220	220	0.00	
EW2	2955	----	----	----	58	58	0.00	
EW2	2960	----	----	----	91	91	0.00	
EW2	2965	----	----	----	59	59	0.00	
EW2	2970	----	----	----	275	275	0.00	
EW2	2975	----	----	----	12	12	0.00	
EW2	2980	----	----	----	81	81	0.00	
EW2	2985	----	----	----	3	3	0.00	
EW2	2990	----	----	----	51	51	0.00	
EW2	2995	----	----	----	2	2	0.00	
EW2	3000	----	----	----	73	73	0.00	
EW2	3005	----	----	----	38	38	0.00	
EW2	3010	----	----	----	1	1	0.00	
EW2	3015	----	----	----	21	21	0.00	
EW2	3020	----	----	----	1	1	0.00	
TOTALS		585	0	0	78853	78853	585	