



PRELIMINARY

PG48 BULLETIN #226@

E-MINI S&P 500 PUT OPTIONS

wed, Nov 22, 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 include contract details for various strike prices from 1650 to 2530.



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Table with columns: PG48, BULLETIN #226@, E-MINI S&P 500 PUT OPTIONS, Wed, Nov 22, 2017, PG48. Contains multiple columns of price and volume data for various strike prices.

WK EW-W2 E-MINI S&P PUTS

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



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PG48 BULLETIN #226@ E-MINI S&P 500 PUT OPTIONS wed, Nov 22, 2017 PG48

Table with multiple columns: Price (e.g., 2380, 2385), Bid (e.g., .75, .85B), Ask (e.g., .75, .90B), Volume (e.g., 10, 10), Delta (e.g., .019, .019), Open Interest (e.g., 1, 8), Last Price (e.g., 908, 119), and Bid/Ask (e.g., 4.50B, 4.65B).

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). Lists various strike prices from 1660 to 2265.



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PG48 BULLETIN #226@ E-MINI S&P 500 PUT OPTIONS wed, Nov 22, 2017 PG48

Table with columns for price, bid, ask, volume, and contract details for various E-mini S&P 500 Put Options.

TOTAL DEC17 EOW4 MINI S&P P (FUTURES SETT. 2594.60 - 170 ) 34293 333367 + 3706

Table with columns for price, bid, ask, volume, and contract details for various E-mini S&P 500 Put Options, including futures settlement prices.

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Table with columns: PG48, BULLETIN #226@, E-MINI S&P 500 PUT OPTIONS, wed, Nov 22, 2017, PG48. Contains multiple columns of price and volume data for various strike prices.

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 contract details for various strike prices.

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E-MINI S&P 500 PUT OPTIONS

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1540	----	----	----	----	CAB	----	----	----	----	1978	UNCH	19.75B	.15A		
1550	----	----	----	----	CAB	----	----	----	----	4903	UNCH	20.50B	.05		
1560	----	----	----	----	CAB	----	.000	----	----	940	UNCH	21.00B	.15A		
1570	----	----	----	----	CAB	----	.000	----	----	1439	UNCH	21.75B	.10		
1575	0.05	.05	.05	----	CAB	----	.000	1648	+	3927	+	1648	22.00B	.05	
1580	----	----	----	----	CAB	----	.000	----	----	703	UNCH	22.50B	.10		
1590	----	----	----	----	CAB	----	.000	----	----	661	UNCH	23.25B	.10		
1600	----	----	----	----	CAB	----	.000	----	----	4610	UNCH	24.00B	.05		
1610	----	----	----	----	CAB	----	.000	----	----	1439	UNCH	24.75B	.15		
1620	----	----	----	----	CAB	----	.000	----	----	418	UNCH	25.50B	.10		
1625	----	----	----	----	CAB	----	.000	----	----	1748	UNCH	26.00B	.10		
1630	----	----	----	----	CAB	----	.000	----	----	357	UNCH	26.25B	.10		
1640	----	----	----	----	CAB	----	.000	----	----	893	UNCH	27.25B	.10		
1650	----	----	----	----	CAB	----	.000	----	----	3308	UNCH	28.00	.05		
1660	----	----	----	----	CAB	----	.000	----	----	1075	UNCH	29.00B	.20A		
1670	----	----	----	----	CAB	----	.000	----	----	962	UNCH	29.75B	.15		
1675	----	----	----	----	CAB	----	.000	----	----	1233	UNCH	30.25B	.10		
1680	----	----	----	----	CAB	----	.000	----	----	828	UNCH	30.75B	.15		
1690	----	----	----	----	CAB	----	.000	----	----	4272	UNCH	31.75B	.15		
1700	----	----	----	----	CAB	----	.000	----	----	8017	UNCH	32.75	.05		
1710	----	----	----	----	CAB	----	.000	----	----	1065	UNCH	33.75B	.15A		
1720	----	----	----	----		.05	UNCH	.000	----	590	UNCH	35.00B	.10A		
1725	----	----	----	----		.05	UNCH	.000	----	2289	UNCH	35.50B	.10		
1730	----	----	----	----		.05	UNCH	.000	----	1025	UNCH	36.00B	.10A		
1740	----	----	----	----		.05	UNCH	.000	----	713	UNCH	37.25B	.15A		
1750	----	----	----	----		.05	UNCH	.000	----	3023	UNCH	38.25B	.15		
1760	----	----	----	----		.05	UNCH	.000	----	689	UNCH	39.50B	.10A		
1770	----	----	----	----		.05	UNCH	.000	----	478	UNCH	40.75B	.10A		
1775	----	----	----	----		.10+	5	.000	----	2308	UNCH	41.25B	.10A		
1780	----	----	----	----		.10+	5	.000	----	949	UNCH	42.00B	.10A		
1790	----	----	----	----		.10+	5	.000	----	568	UNCH	43.25B	.10A		
1800	----	----	----	----		.10+	5	.000	----	8829	UNCH	44.50B	.10		
1810	----	----	----	----		.10+	5	.000	----	2976	UNCH	46.00B	.10A		
1820	----	----	----	----		.10+	5	.000	----	3277	UNCH	47.25B	.10A		
1825	0.10	.10	.10	----		.10+	5	.000	----	1	3868	-	1	48.00B	.10A
1830	0.10	.10	.10	----		.10+	5	.000	----	1	2632	-	1	48.75B	.10A
1840	----	----	----	----		.10+	5	.000	----	3580	UNCH	50.25B	.10A		
1850	0.10	.10	.10	----		.10+	5	.000	----	46	6716	-	18	51.75B	.10
1860	----	----	----	----		.10+	5	.000	----	5372	UNCH	53.25B	.10A		
1870	----	----	----	----		.10+	5	.000	----	1049	UNCH	54.75B	.10A		
1875	----	----	----	----		.10+	5	.000	----	2614	UNCH	55.50B	.10		
1880	----	----	----	----		.10+	5	.001	----	5261	UNCH	56.50B	.15		
1890	----	----	----	----		.10	UNCH	.001	----	1366	UNCH	58.00B	.15		
1900	0.10	.15	.10	----		.10	UNCH	.001	1316	17461	-	207	59.75B	.10	
1910	0.10	.10	*.10	----		.10	UNCH	.001	----	2	1869	+	1	61.50B	.10
1920	0.10	.10	.10	----		.10	UNCH	.001	----	2	884	UNCH	63.25B	.10	
1925	0.10	.10	*.10	----		.10-	5	.001	----	2	2727	UNCH	64.25B	.10	
1930	0.10	.10	*.10	----		.10-	5	.001	----	5	1987	+	3	65.25B	.10
1940	----	----	*.10A	----		.10-	5	.001	----	1407	UNCH	67.00B	.10A		
1950	0.15	.15	.10	----		.15	UNCH	.001	----	25	6020	UNCH	69.00B	.10	
1960	----	----	----	----		.15	UNCH	.001	----	2039	UNCH	71.00B	.15A		
1970	----	----	----	----		.15	UNCH	.001	----	2363	UNCH	73.00B	.15A		
1975	----	----	----	----		.15	UNCH	.001	----	6936	UNCH	74.00B	.15		
1980	----	----	----	----		.15	UNCH	.001	----	7119	UNCH	75.25B	.15		
1990	----	----	.15A	----		.15-	5	.001	----	5151	UNCH	77.25B	.15		
2000	0.15	.20	.15	----		.20	UNCH	.002	66	20153	-	21	79.50B	.15	
2010	0.15	.15	.15	----		.20	UNCH	.002	116	2041	+	116	81.75B	.15	
2015	----	----	----	----		.20	UNCH	.002	----	782	UNCH	3.75B	.20A		
2020	----	----	.20A	----		.20-	5	.002	----	3420	UNCH	84.00B	.20A		
2025	0.20	.20	.20	----		.20-	5	.002	----	5	3171	-	5	85.25B	.20A
2030	0.25	.25	.20	----		.20-	5	.002	1310	3220	+	969	86.50B	.20	
2035	----	----	.20A	----		.20-	5	.002	----	892	UNCH	4.15B	.20A		
2040	----	----	*.20A	----		.25	UNCH	.002	----	6392	UNCH	89.00B	.20A		
2050	----	----	.20A	----		.25	UNCH	.002	20	10972	UNCH	91.50B	.20		
2060	----	----	----	----		.25	UNCH	.002	----	2551	UNCH	94.00B	.25A		
2065	----	----	----	----		.25	UNCH	.003	----	1803	UNCH	3.90B	.20		
2070	----	----	----	----		.30+	5	.003	----	2321	UNCH	96.75B	.25A		
2075	----	----	----	----		.30+	5	.003	----	20	2563	-	1	98.00B	.20
2080	0.25	.30	.30	----		.30	UNCH	.003	8	3257	+	1	99.50B	.25	
2090	----	----	*.25A	----		.30	UNCH	.003	----	2590	UNCH	102.25B	.25A		
2100	0.25	.30	.25	----		.30	UNCH	.003	293	34658	-	34	105.00B	.25	
2110	0.25	.30	*.25	----		.30	UNCH	.003	4	2837	+	4	108.00B	.25	
2120	0.30	.30	.30	----		.35	UNCH	.004	13	5762	+	13	111.00B	.30A	
2125	0.35	.35	.30A	----		.35	UNCH	.004	50	9076	-	50	112.50B	.30	
2130	0.35	.35	.35	----		.35	UNCH	.004	41	4535	+	7	114.00B	.35A	
2135	0.35	.35	.35	----		.35	UNCH	.004	28	1999	+	27	7.50	.30	
2140	0.30	.35	*.30	----		.40	UNCH	.005	18	2833	UNCH	117.25B	.30		
2150	----	----	.35A	----		.40	UNCH	.005	----	21102	UNCH	120.50B	.35		
2160	----	----	----	----		.40	UNCH	.005	----	6837	UNCH	123.75B	.35A		
2165	0.40	.40	.40	----		.45	UNCH	.006	14	3335	UNCH	24.75B	.40A		
2170	0.40	.40	*.35	----		.45	UNCH	.006	4	3428	+	1	127.25B	.35	
2175	0.45	.50	.40A	----		.45	UNCH	.006	15	7633	+	10	129.00B	.40A	
2180	----	----	.40A	----		.45	UNCH	.006	7	2593	UNCH	130.75B	.40		
2185	0.45	.45	.45	----		.50	UNCH	.006	10	1348	+	10	32.50B	.40	
2190	0.50	.50	.45A	----		.50	UNCH	.006	32	3264	+	32	134.25B	.45A	
2195	0.45	.50	.45	----		.50	UNCH	.007	137	2356	+	122	33.75B	.45A	
2200	0.50	.50	.45	----		.55	UNCH	.007	381	24978	+	33	138.00B	.45	
2205	0.55	.55	.45A	----		.55	UNCH	.007	490	2847	-	490	35.25B	.45A	
2210	0.50	.55	.50	----		.60+	5	.008	1045	2688	+	716	141.75B	.45A	
2215	----	----	.50A	----		.60+	5	.008	----	2613	UNCH	36.75B	.50		
2220	0.55	.55	.50	----		.65+	5	.009	52	6302	+	2	145.75B	.50	
2225	----	----	.55A	----		.65+	5	.009	----	4667	UNCH	147.75B	.50A		
2230	0.60	.60	.55A	----		.65+	5	.009	42	4430	-	27	149.75B	.50	
2235	----	----	.55A	----		.70+	5	.010	50	2236	-	50	40.00B	.55A	
2240	0.55	.65	.55	----		.70+	5	.010	133	3095	+	106	154.00B	.55	
2245	----	----	.60A	----		.70+	5	.010	----	2624	UNCH	41.50B	.55A		
2250	0.60	.70B	.60	----		.75+	5	.011	150	7993	-	7	158.00B	.55	
2255	0.75	.60A	.60A	----		.75+	5	.011	1	2413	UNCH	43.50B	.60A		
2260	0.70	.70	.65A	----		.75+	5	.011	58	2412	+	34	162.50B	.60A	
2265	0.75	.75	.65A	----		.80+	5	.012	1	2977	-	1	45.25B	.60	
2270	0.60	.80	*.60	----		.80+	5	.012	11	2611	+	1	167.00B	.60	
2275	0.80	.80	.70A	----		.80+	5	.012	22	7914	UNCH	169.25B	.65A		
2280	0.85	.85	.70A	----		.85+	5	.013	373	2673	-	32	171.50B	.70A	
2285	0.75	.85B	.70A	----		.85+	5	.013	139	4328	+	115	49.25B	.70	
2290	0.75	.85	*.65	----		.90+	5	.014	288	2314	+	14	176.25B	.65	
2295	0.90	.90	.75A	----		.90	UNCH	.014	74	5035	+	24	51.50B	.75	
2300	0.85	.90	.75	----		.95+	5	.015	612	27592	+	198	181.00B	.75	
2305	0.90	.95	.80A	----		1.00+	5	.016	77	2586	-	2	53.75B	.80	
2310	0.90	.95B	.80A	----		1.00+	5	.016	23	2615	UNCH	186.00B	.80		
2315	0.85	1.00B	.85	----		1.05+	5	.017	373	1514	UNCH	56.25B	.85A		
2320	0.95	1.00B	.85	----		1.05+	5	.017	15						



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Table with columns: PG48, BULLETIN #226@, E-MINI S&P 500 PUT OPTIONS, wed, Nov 22, 2017, PG48. It lists various put option contracts with their respective prices and volumes.

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PG48	BULLETIN #226@	E-MINI S&P 500 PUT OPTIONS										wed, Nov 22, 2017	PG48
1980	----	----	21.25A	----	21.40-	20	.079	----	----	145	UNCH	33.75B	21.25A
1990	----	----	21.75A	----	22.10-	10	.082	----	----	1052	UNCH	34.75B	21.75A
2000	22.25	22.50B	22.25	----	22.70-	20	.084	----	1	1731	UNCH	35.75B	22.25
2010	----	----	23.00A	----	23.40-	10	.087	----	----	4502	UNCH	36.75B	23.00A
2020	----	----	23.75A	----	24.10-	10	.089	----	----	31	UNCH	38.00B	23.75A
2025	----	----	24.00A	----	24.40-	20	.091	----	----	680	UNCH	38.50B	24.00A
2030	----	----	24.50A	----	24.80-	10	.092	----	----	70	UNCH	39.00B	24.50A
2040	----	----	25.25A	----	25.50-	20	.095	----	----	83	UNCH	40.25B	25.25A
2050	26.00	26.00	*25.75	----	26.30-	10	.098	----	2	429 +	2	41.25B	25.75
2060	----	----	26.75A	----	27.10-	10	.101	----	----	103	UNCH	42.50B	26.75A
2075	----	----	27.75A	----	28.30-	10	.106	----	----	50	UNCH	44.50B	27.75A
2080	----	----	28.25A	----	28.70-	10	.107	----	----	70	UNCH	45.00B	28.25A
2090	----	----	29.00A	----	29.50-	10	.110	----	----	30	UNCH	46.25B	29.00A
2100	29.75	30.00	29.75	----	30.40	UNCH	.114	----	2	6762	UNCH	47.75B	29.75A
2110	----	----	30.75A	----	31.20-	10	.117	----	----	30	UNCH	49.00B	30.75A
2120	----	----	31.50A	----	32.10-	10	.121	----	----	168	UNCH	50.50B	31.50A
2125	32.00	32.25B	32.00	----	32.60	UNCH	.122	----	150	192 +	150	51.25B	32.00A
2130	32.50	32.75B	32.50	----	33.00-	10	.124	----	70	70 +	28	51.75B	32.50A
2140	33.25	33.75B	*33.25	----	34.00	UNCH	.128	----	500	560 +	500	53.25B	33.25
2150	34.25	34.75B	34.25	----	34.90-	10	.132	----	2399	16732 -	2338	54.75B	34.25A
2160	----	----	35.25A	----	35.90-	10	.136	----	----	1	UNCH	56.50B	35.25A
2170	36.50	36.50	36.25A	----	36.90-	10	.140	----	100	811 +	100	58.00B	36.25A
2175	----	----	36.75A	----	37.40-	10	.142	----	2338	16505 -	2338	58.75B	36.75A
2180	----	----	*37.25A	----	37.90-	10	.144	----	----	43	UNCH	59.75B	37.25A
2190	----	----	*38.25A	----	39.00-	10	.148	----	----	317	UNCH	61.25B	38.25A
2200	40.00	40.00	*39.25	----	40.10-	10	.152	----	3	948 +	1	63.00B	39.25
2210	----	----	*40.50A	----	41.20-	10	.157	----	----	1500	UNCH	64.75B	40.50A
2220	----	----	41.75A	----	42.30-	10	.161	----	----	434	UNCH	66.75B	41.75A
2225	42.50	42.75B	*42.25A	----	42.90-	10	.164	----	40	164 +	40	67.50B	42.25A
2230	42.75	43.25B	*42.75	----	43.50-	10	.166	----	1	2962	UNCH	68.50B	42.75
2240	----	----	*44.00A	----	44.70-	10	.171	----	----	250	UNCH	70.50B	44.00A
2250	----	----	*45.25A	----	46.00-	10	.176	----	----	732	UNCH	72.50B	45.25A
2260	----	----	*46.50A	----	47.30-	10	.181	----	----	4021	UNCH	74.50B	46.50A
2270	----	----	*47.75A	----	48.60-	10	.187	----	----	5	UNCH	76.50B	47.75A
2275	----	----	*48.50A	----	49.30	UNCH	.189	----	----	210	UNCH	77.50B	48.50A
2280	----	----	*49.00A	----	49.90-	10	.192	----	----	4	UNCH	78.50B	49.00A
2290	51.25	51.25	*50.50A	----	51.40	UNCH	.198	----	10	1050	UNCH	80.75B	50.50A
2300	52.00	52.50B	*52.00	----	52.80-	10	.204	----	50	1209	UNCH	83.00B	52.00
2310	----	----	*53.25A	----	54.30	UNCH	.210	----	----	48	UNCH	85.25B	53.25A
2320	----	----	*54.75A	----	55.90	UNCH	.216	----	----	190	UNCH	87.75B	54.75A
2325	----	----	*55.75A	----	56.60	UNCH	.219	----	----	1100	UNCH	89.00B	55.75A
2330	----	----	*56.50A	----	57.40	UNCH	.222	----	----	134	UNCH	90.00B	56.50A
2340	----	----	*58.00A	----	59.10+	10	.229	----	----	2	UNCH	92.50B	58.00A
2350	----	----	*59.50A	----	60.80+	10	.235	----	----	417	UNCH	95.25B	59.50A
2360	----	----	*61.25A	----	62.50+	10	.242	----	----	1	UNCH	97.75B	61.25A
2370	----	----	*63.00A	----	64.30+	10	.249	----	----	316	UNCH	100.50B	63.00A
2375	64.50	64.75B	*64.00A	----	65.20+	20	.253	----	10	4299 +	10	101.75B	64.00A
2380	----	----	*64.75A	----	66.10+	10	.257	----	----	61	UNCH	103.25B	64.75A
2390	----	----	*66.50A	----	68.00+	20	.264	----	----	5263	UNCH	106.00B	66.50A
2400	----	----	*68.50A	----	69.90+	20	.272	----	----	4388	UNCH	109.00B	68.50A
2410	----	----	*70.25A	----	71.90+	20	.280	----	----	13	UNCH	112.00B	70.25A
2420	----	----	*72.25A	----	73.90+	20	.288	----	----	20	UNCH	115.00B	72.25A
2425	----	----	*73.50A	----	75.00+	30	.292	----	----	62	UNCH	116.75B	73.50A
2430	75.25	75.25	*74.50A	----	76.00+	20	.296	----	7	18 +	7	118.25B	74.50A
2440	----	----	*76.50A	----	78.20+	30	.305	----	----	63	UNCH	121.50B	76.50A
2450	----	----	*78.75A	----	80.30+	20	.314	----	----	212	UNCH	124.75B	78.75A
2460	81.00	82.25B	*81.00	----	82.60+	20	.323	----	2	52 +	2	128.25B	81.00
2470	----	----	*83.25A	----	84.90+	10	.332	----	----	2	UNCH	131.75B	83.25A
2475	----	----	*84.50A	----	86.10+	10	.337	----	----	122	UNCH	133.75B	84.50A
2480	85.75	87.00B	*85.50A	----	87.30+	10	.342	----	20	27 +	20	135.50B	85.50A
2490	----	----	*88.00A	----	89.80+	20	.352	----	----	3150	UNCH	139.25B	88.00A
2500	92.50	92.50	*90.50A	----	92.30+	10	.362	----	29	4108 +	23	143.00B	90.50A
2510	----	----	*93.25A	----	95.00+	20	.372	----	----	166	UNCH	147.00B	93.25A
2520	----	----	*96.00A	----	97.70+	10	.383	----	----	100	UNCH	151.25B	96.00A
2525	----	----	*97.25A	----	99.20+	20	.389	----	3	790	UNCH	153.25B	97.25A
2530	98.50	100.25B	*98.50	----	100.60+	20	.394	----	21	21 +	20	155.25B	98.50
2550	105.00	106.25B	*104.50A	----	106.60+	30	.417	----	4	391	UNCH	164.25B	104.50A
2560	----	----	*107.50A	----	109.70+	30	.429	----	----	619	UNCH	168.75B	107.50A
2570	----	112.75B	*110.75A	----	112.70+	10	.442	----	----	153	UNCH	173.50B	110.75A
2575	----	----	*112.25A	----	114.30+	10	.448	----	----	161	UNCH	176.00B	112.25A
2580	----	----	*114.00A	----	115.80-	10	.454	----	----	486	UNCH	178.25B	114.00A
2590	117.25	119.50B	*117.25	----	119.60+	30	.467	----	10	258 +	10	183.50B	117.25
2600	----	123.00B	*121.00A	----	123.70+	90	.481	----	----	120	UNCH	188.50B	121.00A
2610	----	126.75B	*124.50A	----	127.80+	130	.494	----	----	221	UNCH	193.75B	124.50A
2620	----	130.50B	*128.25A	----	131.90+	160	.508	----	----	66	UNCH	199.25B	128.25A
2625	130.00	132.50B	*130.00	----	133.80+	160	.515	----	10	118 +	10	202.00B	130.00
2630	134.50	134.50	*132.00A	----	135.80+	160	.522	----	25	46	UNCH	205.00B	132.00A
2640	----	138.50B	*136.00A	----	139.80+	150	.536	----	----	31	UNCH	210.75B	136.00A
2650	----	142.75B	*140.25A	----	144.10+	160	.551	----	----	129	UNCH	216.75B	140.25A
2660	146.25	147.00B	*144.50A	----	148.50+	160	.566	----	10	175	UNCH	223.00B	144.50A
2670	150.75	151.75	*149.00A	----	153.10+	170	.581	----	20	30 +	20	229.50B	149.00A
2675	----	154.00B	*151.25A	----	155.50+	180	.589	----	----	50	UNCH	232.75B	151.25A
2680	156.25	156.25	*153.50A	----	157.90+	NEW	.596	----	50	50 +	50	236.00B	153.50A
2700	----	166.25B	*163.25A	----	167.80+	180	.628	----	----	370	UNCH	249.50B	163.25A
2725	----	179.75B	*176.75A	----	181.20+	170	.668	----	----	9	UNCH	267.50B	176.75A
2730	----	182.50B	*179.50A	----	184.00+	170	.676	----	----	18	UNCH	271.25B	179.50A
2740	----	188.25B	*185.25A	----	189.80+	170	.692	----	----	3	UNCH	279.00B	185.25A
2750	----	194.25B	*191.25A	----	195.80+	170	.708	----	----	3	UNCH	286.75B	191.25A
2760	----	200.50B	*197.25A	----	202.00+	170	.724	----	----	10	UNCH	294.75B	197.25A
2775	----	210.25B	207.00A	----	211.70+	170	.748	----	----	4	UNCH	306.75B	207.00A
2780	----	213.75B	*210.25A	----	215.10+	180	.756	----	----	9	UNCH	311.00B	210.25A
2790	----	220.50B	*217.00A	----	222.00+	190	.771	----	----	67	UNCH	319.25B	217.00A
2800	----	227.50B	224.00A	----	229.10+	190	.786	----	----	80	UNCH	327.75B	224.00A
2850	----	266.00B	262.00A	----	267.50+	210	.854	----	----	30	UNCH	372.00B	262.00A
2870	----	282.75B	278.75A	----	284.20+	210	.876	----	----	150	UNCH	390.50B	278.75A
2875	----	287.00B	283.00A	----	288.50+	210	.881	----	----	2	UNCH	395.25B	283.00A
2900	----	309.00B	304.75A	----	310.40+	200	.905	----	----	3	UNCH	418.75B	304.75A
2950	----	355.25B	351.00A	----	356.40+	180	.940	----	----	5	UNCH	466.75B	351.00A
2975	----	379.25B	374.75A	----	380.30+	170	.952	----	----	30	UNCH	483.25B	374.75A
2980	----	384.00B	379.75A	----									



CME Group, Inc.
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PRELIMINARY

Table with columns: PG48, BULLETIN #226@, E-MINI S&P 500 PUT OPTIONS, wed, Nov 22, 2017, PG48. Contains multiple rows of market data including strike prices, bid/ask, and volume.



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PRELIMINARY

PG48	BULLETIN #226@	E-MINI S&P 500 PUT OPTIONS										wed, Nov 22, 2017				PG48
2425	0.35	.40	.30A	----	.30-	5	.007	----	2351	7212 +	2139	87.25	.25			
2430	0.30	.30	.30	----	.30-	5	.007	----	4	3041	UNCH	88.75B	.25			
2435	0.30	.30	.30	----	.30-	5	.008	----	10	1676 +	10	91.00B	.30A			
2440	0.30	.30	.30	----	.30-	10	.008	----	20	3519	UNCH	93.25B	.30A			
2445	0.35	.35	.35	----	.35-	5	.009	----	11	1824 +	10	95.50B	.30A			
2450	0.30	.50	*.30	----	.35-	5	.010	----	242	10649 -	203	98.00B	.30			
2455	0.40	.40	*.35A	----	.35-	10	.010	----	5	1023 +	5	100.25B	.35A			
2460	0.35	.40	*.30	----	.35-	10	.010	----	680	8728 +	70	102.50B	.30			
2465	0.40	.40	.40	----	.40-	10	.012	----	201	1616 +	199	105.00B	.40			
2470	0.40	.40	.40	----	.40-	15	.013	----	8	2723 +	8	107.75B	.40			
2475	0.50	.50	.45A	----	.40-	20	.013	----	6	6650 +	5	110.50B	.40			
2480	0.60	.60	.45A	----	.45-	20	.015	----	17	3319 -	9	113.25B	.45A			
2485	0.50	.50	.50	----	.45-	20	.016	----	16	2203 +	13	116.00B	.45			
2490	0.50	.55	.50	----	.50-	20	.018	----	55	3061 -	50	119.00B	.50			
2495	0.60	.60	.55	----	.55-	15	.020	----	20	1073 +	10	122.00B	.55A			
2500	0.55	.60	*.50	----	.60-	15	.023	----	675	8295 +	599	125.00B	.50			
2505	0.60	.60	*.60	----	.65-	15	.025	----	158	1447 +	138	128.25B	.60			
2510	0.65	.70	.65	----	.70-	15	.028	----	464	13924 -	29	131.25B	.65			
2515	0.70	.75	*.65	----	.75-	15	.031	----	2462	2789 +	1448	134.75B	.65			
2520	0.75	.75	*.70A	----	.75-	25	.033	----	1	2416 -	1	138.00B	.70A			
2525	0.80	.85B	*.75A	----	.85-	25	.038	----	225	4616 -	98	141.50B	.75A			
2530	0.95	.95	*.80A	----	.90-	30	.042	----	286	2443 +	1	145.00B	.80A			
2535	0.85	1.05	*.85	----	1.00-	35	.049	----	438	2297 +	277	148.75B	.85			
2540	1.50	1.50	*1.00	----	1.15-	35	.058	----	635	3373 +	116	152.25B	1.00			
2545	1.15	1.35B	*1.15	----	1.30-	40	.067	----	95	2646 +	49	156.00B	1.15			
2550	1.45	1.60B	*1.25	----	1.55-	35	.082	----	452	3856 +	180	160.00B	1.25			
2555	1.65	1.85B	*1.50A	----	1.80-	35	.098	----	227	2257 +	140	164.00B	1.50A			
2560	1.95	2.25	*1.80A	----	2.10-	35	.118	----	345	3644 +	70	168.00B	1.80A			
2565	2.70	2.80B	*2.10	----	2.50-	35	.144	----	263	1515 +	113	172.00B	2.10			
2570	3.00	3.15B	*2.55A	----	3.00-	30	.176	----	353	4823 +	67	176.00B	2.55A			
2575	3.15	3.95B	*3.10A	----	3.60-	30	.216	----	36	2281	UNCH	180.25B	3.10A			
2580	4.40	4.80B	*3.65	----	4.40-	30	.268	----	498	2602 +	244	184.50B	3.65			
2585	6.00	6.00	*4.60A	----	5.50-	20	.333	----	385	1572 +	237	189.00B	4.60A			
2590	7.25	7.50	*5.50	----	7.00	UNCH	.413	----	247	1326 -	70	193.25B	5.50			
2595	8.50	9.25	7.25A	----	8.90+	20	.506	----	402	533 +	171	197.75B	7.25			
2600	10.75	11.75B	*8.75	----	11.30+	40	.605	----	401	493 +	126	202.25B	8.75			
2605	----	15.00B	11.75A	----	14.40+	80	.703	----	----	54	UNCH	206.75B	11.50A			
2610	----	18.50B	14.75A	----	18.00+	100	.789	----	30	195 -	12	211.25B	14.50A			
2615	----	22.75B	18.25A	----	22.10+	120	.854	----	----	9	UNCH	216.00B	18.00A			
2620	24.75	27.00B	22.50A	----	26.50+	130	.902	----	1	152	UNCH	220.75B	22.00A			
2625	----	31.75B	27.00A	----	31.10+	140	.933	----	----	7	UNCH	225.25B	26.25A			
2630	34.00	36.50B	31.75A	----	35.90+	150	.955	----	1	9 +	1	230.00B	31.00A			
2635	38.00	41.25B	36.50A	----	40.80+	150	.969	----	1	109 +	1	234.75B	35.75A			
2640	----	46.00B	41.25A	----	45.70+	150	.975	----	----	2	UNCH	239.50B	40.50A			
2645	----	49.25B	46.25A	----	50.60+	150	.980	----	----	12	UNCH	244.50B	45.25A			
2650	53.00	53.00	51.00A	----	55.60+	160	.985	----	2	104 +	2	249.25B	50.25A			
2655	----	----	----	----	60.50+	150	.989	----	----	1	UNCH	254.00B	62.75A			
2660	----	----	----	----	65.50+	160	.989	----	----	5	UNCH	259.00B	67.50A			
2670	----	----	----	----	75.50+	160	.993	----	----	5	UNCH	268.75B	77.25A			
2675	----	----	----	----	80.50+	170	.993	----	----	2	UNCH	273.50B	82.25A			
2680	----	----	----	----	85.50+	170	.994	----	----	2	UNCH	278.50B	95.75A			
2685	----	----	----	----	90.40+	160	.994	----	----	1	UNCH	283.25B	100.75A			
3000	----	----	----	----	405.30+	170	1.000	----	----	1	UNCH	----	----			
3200	----	----	----	----	605.20+	170	1.000	----	----	1	UNCH	----	----			
TOTAL									21667	453021 +	13440					
DEC17	EOM EMINI S&P P															
950	----	----	----	----	CAB	----	----	----	----	137	UNCH	.20B	.10			
975	----	----	----	----	CAB	----	----	----	----	9	UNCH	.25	.15			
1000	----	----	----	----	CAB	----	----	----	----	108	UNCH	.25B	.10			
1025	----	----	----	----	CAB	----	----	----	----	6	UNCH	.30	.15A			
1050	----	----	----	----	CAB	----	----	----	----	12	UNCH	.35B	.15A			
1100	----	----	----	----	CAB	----	----	----	----	207	UNCH	.45B	.15			
1125	----	----	----	----	CAB	----	----	----	----	6	UNCH	.50B	.10			
1150	----	----	----	----	CAB	----	----	----	----	10	UNCH	.55B	.10A			
1175	----	----	----	----	CAB	----	----	----	----	9	UNCH	.60B	.10A			
1200	----	----	----	----	CAB	----	----	----	----	100	UNCH	.70B	.10A			
1225	----	----	----	----	CAB	----	----	----	----	89	UNCH	.75B	.05			
1250	----	----	----	----	CAB	----	----	----	----	7	UNCH	.80B	.10			
1275	----	----	----	----	CAB	----	----	----	----	6	UNCH	.90B	.10A			
1300	----	----	----	----	CAB	----	----	----	----	5	UNCH	.95	.10A			
1325	----	----	----	----	CAB	----	----	----	----	52	UNCH	1.05	.10A			
1350	----	----	----	----	CAB	----	----	----	----	111	UNCH	1.20B	.10A			
1375	----	----	----	----	CAB	----	----	----	----	167	UNCH	1.25B	.10A			
1400	----	----	----	----	CAB	----	----	----	----	148	UNCH	1.45B	.10A			
1425	----	----	----	----	CAB	----	.000	----	----	387	UNCH	1.65	.05			
1450	----	----	----	----	CAB	----	.000	----	----	184	UNCH	1.75B	.10A			
1475	----	----	----	----	CAB	----	.000	----	----	179	UNCH	1.95B	.05			
1500	0.05	.05	.05	----	.05	UNCH	.000	----	16	74	UNCH	2.15B	.05			
1525	----	----	----	----	.05	UNCH	.000	----	----	287	UNCH	2.35B	.10			
1550	----	----	----	----	.05	UNCH	.000	----	----	170	UNCH	2.60B	.10			
1560	----	----	----	----	.05	UNCH	.000	----	----	1	UNCH	2.70B	.10A			
1570	----	----	----	----	.05	UNCH	.000	----	----	86	UNCH	2.80B	.10			
1575	----	----	----	----	.05	UNCH	.000	----	----	177	UNCH	2.85B	.10			
1580	----	----	----	----	.05	UNCH	.000	----	----	8	UNCH	2.90B	.10A			
1590	----	----	----	----	.05	UNCH	.000	----	----	26	UNCH	3.05B	.15A			
1600	----	----	----	----	.05	UNCH	.000	----	----	343	UNCH	3.15B	.10			
1610	----	----	----	----	.05	UNCH	.000	----	----	11	UNCH	3.25B	.15A			
1620	----	----	----	----	.05-	5	.000	----	----	1315	UNCH	3.40B	.15A			
1625	----	----	----	----	.05-	5	.000	----	----	6649	UNCH	3.45B	.15A			
1630	----	----	----	----	.05-	5	.000	----	----	686	UNCH	3.55B	.15			
1640	----	----	----	----	.05-	5	.000	----	----	65	UNCH	3.65B	.15A			
1650	----	----	----	----	.05-	5	.000	----	----	202	UNCH	3.80B	.15A			
1660	----	----	----	----	.10	UNCH	.000	----	----	118	UNCH	3.95B	.20			
1670	----	----	----	----	.10	UNCH	.000	----	----	126	UNCH	4.10B	.15A			
1675	----	----	----	----	.10	UNCH	.000	----	----	181	UNCH	4.20B	.20A			
1680	----	----	----	----	.10	UNCH	.000	----	----	56	UNCH	4.25B	.15A			
1690	----	----	----	----	.10-	5	.000	----	----	149	UNCH	4.45B	.10A			
1700	----	----	----	----	.10-	5	.000	----	----	661	UNCH	4.65B	.10			
1710	----	----	----	----	.10-	5	.000	----	----	362	UNCH	4.80B	.20			
1720	----	----	----	----	.10-	5	.000	----	----	144	UNCH	5.00B	.15			
1725	----	----	----	----	.10-	5	.000	----	----	134	UNCH	5.00B	.15			
1730	----	----	----	----	.10-	5	.000	----	----	138	UNCH	5.00B	.20A			
1740	----	----	----	----	.10-	5	.000	----	----	112	UNCH	5.25B	.20			
1750	----	----	----	----	.10-	5	.000	----	----	44	UNCH	5.50B	.15A			
1760	----	----	----	----	.10-	5	.000	----	----	50	UNCH	5.75B	.15A			
1770	----	----	.15A	----	.10-	10	.000	----	----	252	UNCH	6.00B	.15			
1775	----	----	.15A	----	.10-	10	.000	----	----	35	UNCH	6.25B	.15A			
1780	----	----	.15A	----	.10-	10	.000	----	----	181	UNCH	6.25B	.15A			
1790	----	----	.15A	----	.15-	5	.001	----	----	162	UNCH	6.50B	.15A			
1800	----	----	.15A	----	.15-	5	.001	----	----	3819	UNCH	6.75B	.15			
1810	----	----	----	----	.15-	5	.001	----	----	841	UNCH	7.00B	.15A			
1820	0.15	.15	*.15	----	.15-	5	.001	----	21	80 +	21	7.50B	.15			
1825</																



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PRELIMINARY

Table with columns: PG48, BULLETIN #226@, E-MINI S&P 500 PUT OPTIONS, wed, Nov 22, 2017, PG48. Contains multiple rows of market data including strike prices, bid/ask, volume, and open interest.



PRELIMINARY

PG48	BULLETIN #226@	E-MINI S&P 500 PUT OPTIONS										wed, Nov 22, 2017	PG48	
1225	----	----	----	----	----	.05	UNCH	.000	----	----	101	UNCH	.85B	.15
1250	----	----	----	----	----	.05	UNCH	.000	----	----	151	UNCH	1.10B	.15A
1275	----	----	----	----	----	.05	UNCH	.000	----	----	45	UNCH	1.20B	.15
1300	----	----	----	----	----	.05	UNCH	.000	----	----	62	UNCH	1.35B	.15
1325	----	----	----	----	----	.05	UNCH	.000	----	----	54	UNCH	1.45B	.15
1350	----	----	----	----	----	.05	UNCH	.000	----	----	545	UNCH	1.65B	.15
1375	----	----	----	----	----	.05-	5	.000	----	----	168	UNCH	1.80B	.15
1400	----	----	----	----	----	.05-	5	.000	----	----	187	UNCH	2.00B	.15
1425	----	----	----	----	----	.10	UNCH	.000	----	----	133	UNCH	2.20B	.20
1450	----	----	----	----	----	.10	UNCH	.000	----	----	123	UNCH	2.40B	.25
1475	----	----	----	----	----	.10-	5	.000	----	----	121	UNCH	2.65B	.15A
1500	----	----	----	----	----	.15	UNCH	.001	----	----	105	UNCH	2.90B	.15A
1525	----	----	----	----	----	.15	UNCH	.001	----	----	149	UNCH	3.25	.25
1550	0.15	.15	.15	----	----	.20	UNCH	.001	----	21	147 +	16	3.55	.15
1560	----	----	.15A	----	----	.20	UNCH	.001	----	----	74	UNCH	3.65	.15A
1570	----	----	----	----	----	.20	UNCH	.001	----	----	66	UNCH	3.80	.15
1575	----	----	----	----	----	.20-	5	.001	----	----	54	UNCH	3.85	.20A
1580	----	----	----	----	----	.20-	5	.001	----	----	51	UNCH	3.95	.20A
1590	----	----	----	----	----	.20-	5	.001	----	----	141	UNCH	4.10B	.25A
1600	----	----	----	----	----	.20-	5	.001	----	----	396	UNCH	4.25B	.25A
1610	----	----	----	----	----	.25	UNCH	.001	----	----	1	UNCH	4.40B	.25A
1620	----	----	----	----	----	.25-	5	.001	----	----	25	UNCH	4.50B	.25A
1625	----	----	----	----	----	.25-	5	.001	----	----	40	UNCH	4.65B	.25A
1630	----	----	----	----	----	.25-	5	.001	----	----	2	UNCH	4.65B	.25A
1640	----	----	----	----	----	.25-	5	.001	----	----	3	UNCH	4.90B	.30A
1650	----	----	----	----	----	.25-	5	.001	----	----	209	UNCH	5.00B	.30A
1660	----	----	----	----	----	.25-	10	.001	----	----	5	UNCH	5.25B	.30A
1670	----	----	----	----	----	.30-	5	.002	----	----	14	UNCH	5.25B	.30A
1675	----	----	----	----	----	.30-	5	.002	----	----	8	UNCH	5.50B	.30A
1680	----	----	----	----	----	.30-	5	.002	----	----	257	UNCH	5.50B	.30A
1690	----	----	.35A	----	----	.30-	10	.002	----	----	29	UNCH	5.75B	.35A
1700	----	----	----	----	----	.30-	10	.002	----	----	297	UNCH	6.00B	.35A
1710	----	----	----	----	----	.30-	10	.002	----	----	50	UNCH	6.25B	.35A
1720	----	----	----	----	----	.30-	10	.002	----	----	272	UNCH	6.25B	.35A
1725	----	----	.40A	----	----	.30-	15	.002	----	----	327	UNCH	6.50B	.40A
1730	----	----	.40A	----	----	.35-	10	.002	----	----	143	UNCH	6.50B	.40A
1740	----	----	----	----	----	.35-	10	.002	----	----	61	UNCH	6.75B	.40A
1750	----	----	.40A	----	----	.35-	10	.002	----	----	174	UNCH	7.00B	.40A
1760	----	----	.45A	----	----	.35-	15	.002	----	----	124	UNCH	7.25B	.35
1770	----	----	----	----	----	.40-	10	.003	----	----	130	UNCH	7.50B	.45A
1775	----	----	----	----	----	.40-	10	.003	----	----	151	UNCH	7.75B	.45A
1780	----	----	----	----	----	.40-	10	.003	----	----	122	UNCH	8.00B	.50A
1790	----	----	.50A	----	----	.45-	10	.003	----	----	217	UNCH	8.25B	.50A
1800	----	----	.50A	----	----	.45-	10	.003	----	----	220	UNCH	8.50B	.50A
1810	----	----	----	----	----	.50-	5	.004	----	----	72	UNCH	8.75B	.55
1820	----	----	----	----	----	.50-	10	.004	----	----	9480	UNCH	9.00B	.55A
1825	----	----	----	----	----	.55-	5	.004	----	----	292	UNCH	9.25B	.50
1830	----	----	----	----	----	.55-	5	.004	----	----	31	UNCH	9.50B	.60A
1840	----	----	.60A	----	----	.55-	10	.004	----	----	15	UNCH	9.75B	.60A
1850	----	----	----	----	----	.60-	5	.004	----	----	315	UNCH	10.25B	.65A
1860	----	----	----	----	----	.65-	5	.005	----	----	17	UNCH	10.50B	.65A
1870	----	----	.70A	----	----	.65-	10	.005	----	----	29	UNCH	11.00B	.70A
1875	----	----	.70A	----	----	.70-	5	.005	----	----	483	UNCH	11.25B	.70A
1880	----	----	.70A	----	----	.70-	5	.005	----	----	64	UNCH	11.50B	.70
1890	----	----	.75A	----	----	.70-	10	.005	----	----	28	UNCH	11.75B	.75A
1900	0.75	.75	.75	----	----	.75-	10	.006	----	1	636	UNCH	12.25B	.75
1910	----	----	----	----	----	.80-	5	.006	----	----	64	UNCH	12.75B	.80A
1920	----	----	.85A	----	----	.80-	10	.006	----	----	9739	UNCH	13.25B	.80A
1925	----	----	----	----	----	.85-	5	.007	----	----	224	UNCH	13.50B	.85A
1930	----	----	----	----	----	.85-	5	.007	----	----	218	UNCH	13.75B	.85A
1940	----	----	----	----	----	.90-	5	.007	----	----	250	UNCH	14.25B	.90A
1950	----	----	.95A	----	----	.95-	5	.008	----	----	331	UNCH	14.75B	.90A
1960	----	----	1.00A	----	----	.95-	10	.008	----	----	2860	UNCH	15.50B	.95A
1970	----	----	1.05A	----	----	1.00-	10	.008	----	112	114	UNCH	16.00B	1.00A
1975	----	----	1.05A	----	----	1.05-	10	.009	----	----	343	UNCH	16.25B	1.00A
1980	1.10	1.10	1.10	----	----	1.05-	10	.009	----	15	64 +	15	16.50B	1.05A
1990	----	----	1.15A	----	----	1.10-	10	.009	----	----	60	UNCH	17.25B	1.05A
2000	1.15	1.25	*1.10	----	----	1.10-	10	.010	----	179	809 +	9	17.75B	1.10
2010	1.30	1.30	1.25A	----	----	1.25-	10	.011	----	5	489	UNCH	18.50B	1.15A
2020	----	----	1.30A	----	----	1.30-	10	.011	----	----	130	UNCH	19.25B	1.20A
2025	----	----	1.30A	----	----	1.35-	10	.012	----	----	967	UNCH	19.50B	1.20
2030	----	----	1.35A	----	----	1.35-	10	.012	----	----	1016	UNCH	20.00B	1.25A
2040	----	----	1.40A	----	----	1.45-	5	.013	----	----	343	UNCH	20.75B	1.30A
2050	----	----	1.45A	----	----	1.50-	5	.013	----	----	691	UNCH	21.50B	1.40A
2060	----	----	1.55A	----	----	1.55-	5	.014	----	----	72	UNCH	22.25B	1.45A
2070	----	----	1.60A	----	----	1.65-	5	.015	----	----	335	UNCH	23.00B	1.50A
2075	1.65	1.70B	1.65	----	----	1.65-	10	.015	----	5	183	UNCH	23.50B	1.55A
2080	----	----	1.65A	----	----	1.70-	10	.015	----	----	210	UNCH	24.00B	1.60
2090	----	----	1.75A	----	----	1.80-	10	.016	----	----	398	UNCH	25.00B	1.70A
2100	----	----	1.85A	----	----	1.85-	10	.017	----	----	671	UNCH	25.75B	1.75A
2110	----	----	1.90A	----	----	1.95-	10	.018	----	----	470	UNCH	26.75B	1.85A
2120	----	----	2.00A	----	----	2.05-	10	.019	----	----	581	UNCH	27.75B	1.95A
2125	2.00	2.15B	2.00	----	----	2.10-	10	.020	----	2	1193	UNCH	28.25B	2.00A
2130	----	----	2.10A	----	----	2.15-	10	.020	----	----	373	UNCH	28.75B	2.05A
2140	----	----	2.20A	----	----	2.25-	15	.021	----	----	695	UNCH	30.00B	2.15A
2150	----	----	2.30A	----	----	2.35-	15	.023	----	940	1987 +	790	31.00B	2.30
2160	----	----	2.40A	----	----	2.45-	20	.024	----	12	597 +	10	32.25B	2.40A
2170	----	----	2.55A	----	----	2.60-	15	.025	----	----	452	UNCH	33.50B	2.55A
2175	----	----	*2.60A	----	----	2.65-	20	.026	----	----	1315	UNCH	34.00B	2.60A
2180	2.65	2.80B	*2.65	----	----	2.75-	15	.027	----	1	242 -	1	34.75B	2.65
2190	----	----	*2.80A	----	----	2.85-	20	.028	----	10	265 +	10	36.00B	2.80A
2200	2.90	3.10B	*2.90	----	----	3.00-	25	.030	----	10	896 +	10	37.50B	2.90
2210	3.30	3.30	*3.10A	----	----	3.20-	20	.032	----	1	127 +	1	38.75B	3.10A
2220	3.15	3.45B	*3.15	----	----	3.35-	25	.034	----	2	106	UNCH	40.25B	3.15
2225	----	----	*3.35A	----	----	3.45-	25	.035	----	----	345	UNCH	41.00B	3.35A
2230	----	----	*3.40A	----	----	3.55-	25	.036	----	28	269 +	28	41.75B	3.40A
2240	----	----	*3.60A	----	----	3.70-	30	.038	----	5	30 +	1	43.50B	3.60A
2245	----	----	*3.70A	----	----	3.80-	25	.039	----	----	4	UNCH	20.50B	3.70A
2250	3.85	4.00	*3.80A	----	----	3.90-	20	.041	----	115	1349 +	110	45.00B	3.80A
2255	4.00	4.10B	*3.90A	----	----	4.00-	20	.042	----	20	310 +	20	21.50B	3.90A
2260	4.05	4.20B	*3.95A	----	----	4.15-	15	.043	----	677	3847 +	657	46.75B	3.95A
2265	4.05	4.15B	*4.05	----	----	4.25-	20	.045	----	33	96	UNCH	22.50B	4.05
2270	----	----	*4.20A	----	----	4.35-	25	.046	----	----	62	UNCH	48.50B	4.20A
2275	----	----	*4.35A	----	----	4.50-	30	.048	----	----	649	UNCH	49.50B	4.35A
2280	----	----	*4.45A	----	----	4.60-	35	.049	----	----	296	UNCH	50.50B	4.45A
2285	4.80	4.85B	*4.55A	----	----	4.75-	35	.051	----	2	200 -	2	24.75B	4.45A
2290	4.95	5.00B	*4.70A	----	----	4.90-	30	.052	----	3	167	UNCH	52.50B	4.70A
2295	5.25	5.25	*4.85A											



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PG48	BULLETIN #226@	E-MINI S&P 500 PUT OPTIONS										wed, Nov 22, 2017	PG48
2425	----	----	*10.75A	----	11.00-	50	.129	----	----	424	UNCH	88.50B	10.75A
2430	----	----	*11.25A	----	11.40-	50	.134	----	----	324	UNCH	90.25B	11.25A
2435	----	----	*11.50A	----	11.80-	60	.139	----	372	464 +	372	50.50B	11.50A
2440	----	----	*12.00A	----	12.30-	50	.145	----	1	304	UNCH	94.25B	12.00A
2445	12.25	13.00B	*12.25	----	12.70-	50	.150	----	1	352 +	1	96.50B	12.25
2450	----	----	*12.75A	----	13.10-	60	.156	----	491	3237 +	1	98.50B	12.75A
2455	----	----	*13.25A	----	13.50-	60	.161	----	----	139	UNCH	55.75B	13.25A
2460	----	----	*13.50A	----	14.00-	60	.168	----	490	1393 -	7	103.00B	13.50A
2465	----	----	*14.00A	----	14.40-	60	.173	----	----	231	UNCH	58.75B	14.00A
2470	15.00	15.25B	*14.50A	----	14.90-	60	.180	----	1	231	UNCH	107.50B	14.50A
2475	15.25	15.75B	*15.00A	----	15.40-	60	.187	----	7	562	UNCH	110.00B	15.00A
2480	15.50	16.25B	*15.50	----	16.00-	50	.194	----	9	305	UNCH	112.25B	15.50
2485	16.25	16.75B	*16.00A	----	16.50-	50	.201	----	3	652 +	1	65.25B	16.00A
2490	----	----	*16.75A	----	17.10-	50	.209	----	----	532	UNCH	117.50B	16.75A
2495	----	----	*17.25A	----	17.80-	40	.218	----	----	44	UNCH	69.00B	17.25A
2500	18.00	18.75	*17.75A	----	18.40-	50	.226	----	22	1756 +	21	122.75B	17.75A
2505	----	----	*18.50A	----	19.10-	50	.235	----	----	366	UNCH	72.75B	18.50A
2510	----	----	*19.25A	----	19.80-	50	.244	----	744	884 +	728	128.50B	19.25A
2515	----	----	*20.00A	----	20.50-	60	.254	----	----	106	UNCH	77.00B	20.00A
2520	21.75	21.75	*20.75A	----	21.30-	60	.264	----	100	193 +	100	134.50B	20.75A
2525	----	----	*21.50A	----	22.10-	60	.275	----	----	289	UNCH	137.50B	21.50A
2530	----	----	*22.25A	----	23.00-	60	.286	----	----	258	UNCH	140.75B	22.25A
2535	----	----	*23.00A	----	23.90-	60	.298	----	----	349	UNCH	86.25B	23.00A
2540	----	----	*24.00A	----	24.80-	70	.310	----	----	128	UNCH	147.25B	24.00A
2545	----	----	*25.00A	----	25.80-	70	.323	----	----	325	UNCH	91.25B	25.00A
2550	----	----	*26.00A	----	26.90-	60	.337	----	----	358	UNCH	153.75B	26.00A
2555	27.25	28.50B	*27.00A	----	28.00-	60	.351	----	572	609 +	298	96.75B	27.00A
2560	28.50	29.25B	*28.00A	----	29.10-	70	.366	----	2	261 +	2	161.00B	28.00A
2565	----	----	*29.25A	----	30.40-	60	.381	----	----	167	UNCH	102.75B	29.25A
2570	----	----	*30.50A	----	31.60-	60	.397	----	----	472	UNCH	168.50B	30.50A
2575	----	33.75B	*31.75A	----	33.00-	60	.414	----	40	804 +	40	172.50B	31.75A
2580	----	----	*33.25A	----	34.50-	40	.432	----	----	284	UNCH	176.50B	33.25A
2585	----	----	*34.75A	----	36.00-	40	.450	----	----	136	UNCH	115.50B	34.75A
2590	38.00	38.25B	*36.25A	----	37.60-	30	.469	----	10	230 +	10	184.50B	36.25A
2595	----	40.00B	*37.75A	----	39.30-	20	.489	----	----	203	UNCH	122.75B	37.75A
2600	40.00	41.75B	*39.50A	----	41.20	UNCH	.510	----	1	114 +	1	193.00B	39.50A
2605	----	43.75B	*41.50A	----	43.10	UNCH	.531	----	----	73	UNCH	130.25B	41.50A
2610	----	45.75B	*43.25A	----	45.20+	10	.553	----	----	6	UNCH	201.50B	43.25A
2615	----	48.00B	*45.50A	----	47.50+	20	.575	----	----	43	UNCH	138.00B	45.50A
2620	----	50.50B	*47.50A	----	49.90+	30	.598	----	----	2	UNCH	210.50B	47.50A
2625	----	52.75B	*50.00A	----	52.40+	40	.621	----	20	33 +	20	215.00B	50.00A
2630	----	55.50B	*52.50A	----	55.10+	50	.645	----	----	8	UNCH	219.50B	52.50A
2635	----	58.25B	*55.25A	----	57.90+	50	.668	----	----	25	UNCH	155.00B	55.25A
2640	----	61.25B	*58.00A	----	60.90+	70	.691	----	----	17	UNCH	228.75B	58.00A
2650	----	67.50B	*64.00A	----	67.40+	100	.736	----	----	3	UNCH	238.00B	64.00A
2655	----	71.00B	*70.25A	----	70.80+	110	.758	----	----	1	UNCH	172.75B	67.25A
2660	----	74.75B	*77.50A	----	74.40+	120	.778	----	----	91	UNCH	247.50B	70.75A
2675	87.00	87.00	*82.00A	----	85.90+	NEW	.836	----	1	1 +	1	262.00B	81.75A
2690	----	99.00B	*94.50A	----	98.70+	130	.879	----	----	28	UNCH	276.50B	94.50A
2710	----	117.25B	*112.50A	----	117.00+	160	.918	----	----	86	UNCH	296.00B	111.75A
2725	----	131.25B	*126.50A	----	131.20+	170	.938	----	----	86	UNCH	297.25B	125.75A
2760	----	165.25B	*160.50A	----	165.10+	170	.964	----	----	34	UNCH	328.50B	159.50A
2770	----	175.00B	*170.25A	----	174.90+	170	.969	----	----	1	UNCH	322.50B	169.50A
3000	----	----	----	----	403.40+	180	.996	----	----	303	UNCH	----	493.25A
TOTAL										7139	89135 +	4461	
FEB18	EOM	EMINI	S&P	P									
1000	----	----	----	----	CAB	----	----	----	----	3	UNCH	.20	.20
1200	----	----	----	----	.05	UNCH	.000	----	----	33	UNCH	.60	.45A
1225	----	----	----	----	.05	UNCH	.000	----	----	458	UNCH	.65B	.25
1250	----	----	----	----	.05	UNCH	.000	----	----	942	UNCH	.75B	.30
1300	----	----	----	----	.05-	5	.000	----	----	126	UNCH	.95	.25A
1325	----	----	----	----	.05-	5	.000	----	----	22	UNCH	1.05B	.35A
1350	----	----	----	----	.10-	5	.000	----	----	3	UNCH	1.15B	.20A
1375	----	----	----	----	.10-	5	.000	----	----	8	UNCH	1.30B	.25
1400	----	----	----	----	.10-	5	.000	----	----	471	UNCH	1.45B	.25
1425	----	----	----	----	.15-	5	.000	----	----	182	UNCH	1.65B	.20A
1450	----	----	----	----	.20-	5	.001	----	----	1213	UNCH	1.80B	.25
1475	----	----	----	----	.25	UNCH	.001	----	----	26	UNCH	2.00B	.25
1500	0.25	.25	*.25	----	.30	UNCH	.001	----	23	38 -	23	2.25B	.25
1525	----	----	----	----	.35+	5	.002	----	----	57	UNCH	2.50B	.30A
1550	----	----	----	----	.35	UNCH	.002	----	----	178	UNCH	2.75B	.35A
1560	----	----	----	----	.35	UNCH	.002	----	----	15	UNCH	2.90B	.35A
1570	----	----	----	----	.35	UNCH	.002	----	----	55	UNCH	3.00B	.40A
1575	----	----	----	----	.35	UNCH	.002	----	----	3	UNCH	3.05B	.40A
1580	----	----	----	----	.35	UNCH	.002	----	----	20	UNCH	3.15B	.40A
1590	----	----	----	----	.35-	5	.002	----	----	25	UNCH	3.25B	.40A
1600	----	----	----	----	.35-	5	.002	----	----	461	UNCH	3.40B	.45A
1610	----	----	----	----	.40-	5	.002	----	----	25	UNCH	3.55B	.45A
1620	----	----	----	----	.40-	5	.002	----	----	4	UNCH	3.75B	.45A
1625	----	----	----	----	.40-	5	.002	----	----	180	UNCH	3.75B	.50A
1630	----	----	----	----	.40-	5	.002	----	----	120	UNCH	3.85B	.50A
1650	----	----	----	----	.45-	5	.003	----	----	626	UNCH	4.15B	.50A
1660	----	----	----	----	.45-	10	.003	----	----	25	UNCH	4.40B	.55A
1675	----	----	----	----	.50-	10	.003	----	----	13	UNCH	4.65B	.60A
1680	----	----	----	----	.50-	10	.003	----	----	25	UNCH	4.75B	.60A
1690	----	----	*.60A	----	.55-	10	.003	----	----	50	UNCH	4.95B	.60A
1700	----	----	.60-	----	.60-	5	.004	----	----	16	UNCH	5.00B	.65A
1710	----	----	*.65A	----	.60-	10	.004	----	----	39	UNCH	5.25B	.65A
1720	----	----	.65-	----	.65-	5	.004	----	----	59	UNCH	5.50B	.70A
1730	----	----	*.70A	----	.70-	5	.004	----	----	3	UNCH	5.75B	.70A
1740	----	----	.70-	----	.70-	5	.004	----	----	1	UNCH	6.00B	.80A
1750	----	----	*.75A	----	.75-	5	.005	----	----	13	UNCH	6.25B	.75A
1760	----	----	*.80A	----	.80-	5	.005	----	----	15	UNCH	6.50B	.80A
1770	----	----	.85	----	.85	UNCH	.005	----	----	1	UNCH	6.75B	.85A
1775	----	----	*.85A	----	.85-	5	.005	----	----	6	UNCH	6.75B	.85A
1790	----	----	*.90A	----	.90-	5	.006	----	----	14	UNCH	7.25B	.90A
1800	----	----	*.95A	----	.95-	5	.006	----	----	6	UNCH	7.50B	.95A
1810	----	----	*1.00A	----	1.00-	5	.007	----	----	19	UNCH	7.75B	1.00A
1820	----	----	1.05	----	1.05	UNCH	.007	----	----	4	UNCH	8.25B	1.05A
1825	----	----	*1.05A	----	1.05-	5	.007	----	----	10	UNCH	8.25B	1.05A
1840	----	----	1.15	----	1.15	UNCH	.008	----	----	18	UNCH	8.75B	1.15A
1850	----	----	1.20	----	1.20	UNCH	.008	----	----	166	UNCH	9.25B	1.20A
1860	----	----	1.25A	----	1.25-	5	.009	----	----	13	UNCH	9.50B	1.25A
1870	----	----	1.30A	----	1.30-	5	.009	----	----	6	UNCH	10.00	1.30A
1875	----	----	1.30-	----	1.30-	5	.009	----	2	19	UNCH	10.25B	1.35A
1880	----	----	1.35A	----	1.35-	5	.009	----	----	6	UNCH	10.25	1.35A
1890	----	----	*1.40A	----	1.40-	5	.010	----	----	1	UNCH	10.75B	1.40A
1900	----	----	1.50A	----	1.50-	5	.011	----	----	102	UNCH	11.25B	1.50A
1910	----	----	1.55A	----	1.55-	5	.011	----	----	7</			





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PRELIMINARY

PG48	BULLETIN #226@	E-MINI S&P 500 PUT OPTIONS										wed, Nov 22, 2017	PG48
2120	----	----	*4.05A	----	4.10-	20	.033	----	100	1022	UNCH	26.25B	4.05A
2125	----	----	*4.15A	----	4.20-	20	.033	----	55	UNCH	26.75B	4.15A	
2130	----	----	*4.25A	----	4.30-	20	.034	----	22	UNCH	27.25B	4.25A	
2140	----	----	*4.45A	----	4.50-	20	.036	----	100	234 +	97	28.25B	4.45A
2150	4.65	4.65	*4.65	----	4.75-	15	.038	----	115	553 +	15	29.50B	4.65
2160	----	----	*4.90A	----	5.00-	10	.040	----	106	UNCH	30.50B	4.90A	
2170	----	----	*5.25A	----	5.30-	10	.043	----	100	394 +	100	31.75B	5.25A
2175	----	----	*5.25A	----	5.40-	10	.044	----	1	232 -	1	32.25B	5.25A
2180	----	----	*5.50A	----	5.60-	10	.045	----	1	318	UNCH	32.75B	5.50A
2190	----	----	*5.75A	----	5.80-	20	.047	----	104	UNCH	34.00B	5.75A	
2200	6.00	6.00	*6.00	----	6.00-	30	.050	----	29	368 +	19	35.50B	6.00
2210	----	----	*6.25A	----	6.30-	40	.052	----	56	UNCH	36.75B	6.25A	
2220	----	----	*6.50A	----	6.60-	40	.055	----	175	UNCH	38.25B	6.50A	
2225	----	----	*6.75A	----	6.80-	40	.057	----	330	UNCH	38.75B	6.75A	
2230	----	----	*7.00A	----	7.00-	30	.058	----	45	UNCH	39.50B	7.00A	
2240	----	----	*7.25A	----	7.40-	20	.062	----	88	UNCH	41.00B	7.25A	
2245	----	----	*7.50A	----	7.50-	30	.063	----	76	UNCH	26.50B	7.50A	
2250	7.50	7.75B	*7.25	----	7.60-	40	.064	----	42	1157 -	26	42.75B	7.25
2255	----	----	*7.75A	----	7.80-	30	.066	----	15	UNCH	27.75B	7.75A	
2260	----	----	*8.00A	----	8.00-	30	.068	----	140	UNCH	44.25B	8.00A	
2265	----	----	*8.25A	----	8.30-	20	.070	----	62	UNCH	29.00B	8.25A	
2270	----	----	*8.25A	----	8.60-	20	.073	----	65	UNCH	46.00B	8.25A	
2275	8.50	8.75B	*8.50	----	8.80-	20	.075	----	12	109 -	9	46.75B	8.50
2280	----	----	*8.75A	----	9.00-	30	.077	----	66	UNCH	47.75B	8.75A	
2285	----	----	*9.00A	----	9.20-	30	.079	----	1	62 -	1	31.50B	9.00A
2290	9.25	9.50B	*9.25	----	9.40-	40	.081	----	1	7	UNCH	49.50B	9.25
2295	----	----	*9.50A	----	9.70-	30	.083	----	136	UNCH	32.75B	9.50A	
2300	9.50	10.00	*9.50	----	10.00-	20	.086	----	34	288 -	20	51.50B	9.50
2305	----	----	*10.00A	----	10.20-	30	.088	----	62	UNCH	34.25B	10.00A	
2315	----	----	*10.50A	----	10.70-	30	.093	----	113	UNCH	35.50B	10.50A	
2320	----	----	*10.75A	----	11.00-	20	.095	----	119	UNCH	55.50B	10.75A	
2325	11.00	11.00	*11.00	----	11.20-	30	.098	----	28	91 +	26	56.50B	11.00
2330	----	----	*11.25A	----	11.50-	30	.100	----	1	11	UNCH	57.50B	11.25A
2335	----	----	*11.50A	----	11.70-	30	.103	----	1	74	UNCH	38.75B	11.50A
2340	----	----	*11.75A	----	12.00-	30	.106	----	32	UNCH	59.75B	11.75A	
2345	----	----	*12.00A	----	12.30-	30	.109	----	641	UNCH	40.50B	12.00A	
2350	----	----	*12.50A	----	12.60-	30	.112	----	15	1359 +	15	62.00B	12.50A
2355	----	----	*12.75A	----	12.90-	30	.115	----	17	UNCH	42.25B	12.75A	
2360	13.00	13.50B	*13.00	----	13.20-	40	.118	----	13	28 -	5	64.50B	13.00
2365	----	----	*13.25A	----	13.50-	40	.121	----	176	UNCH	44.00B	13.25A	
2370	----	----	*13.75A	----	13.90-	30	.124	----	58	UNCH	67.00B	13.75A	
2375	----	----	*14.00A	----	14.20-	40	.128	----	2	409 -	2	68.25B	14.00A
2380	----	----	*14.50A	----	14.60-	40	.131	----	15	70 +	10	69.50B	14.50A
2385	----	----	*14.75A	----	14.90-	50	.135	----	1	UNCH	48.00B	14.75A	
2390	----	----	*15.25A	----	15.30-	50	.139	----	37	UNCH	72.25B	15.25A	
2395	----	----	*15.50A	----	15.70-	50	.143	----	2	UNCH	50.00B	15.50A	
2400	16.00	16.50B	*16.00	----	16.10-	50	.147	----	46	2754 -	12	75.00B	16.00
2410	----	----	*16.75A	----	17.00-	60	.156	----	1	UNCH	78.00B	16.75A	
2415	----	----	*17.25A	----	17.50-	50	.160	----	36	UNCH	54.75B	17.25A	
2420	----	----	*17.75A	----	18.00-	50	.165	----	11	UNCH	81.25B	17.75A	
2425	18.25	18.75B	*18.00	----	18.50-	50	.170	----	30	134 -	21	82.75B	18.00
2430	----	----	*18.75A	----	19.00-	50	.175	----	1	23 +	1	84.25B	18.75A
2435	----	----	*19.25A	----	19.60-	50	.181	----	1	66	UNCH	59.75B	19.25A
2440	----	----	*19.75A	----	20.20-	40	.186	----	2	113 +	2	87.75B	19.75A
2445	----	----	*20.25A	----	20.70-	50	.192	----	58	UNCH	89.50B	20.25A	
2450	----	----	*20.75A	----	21.30-	50	.198	----	1	388 +	1	91.25B	20.75A
2455	----	----	*21.50A	----	21.90-	50	.204	----	122	UNCH	65.50B	21.50A	
2460	----	----	*22.00A	----	22.60-	40	.210	----	386	UNCH	95.00B	22.00A	
2465	----	----	*22.50A	----	23.20-	40	.216	----	111	UNCH	68.50B	22.50A	
2470	----	----	*23.25A	----	23.90-	40	.223	----	145	UNCH	99.00B	23.25A	
2475	----	----	*24.00A	----	24.50-	50	.229	----	1	2591	UNCH	101.00B	24.00A
2480	----	----	*24.50A	----	25.20-	50	.236	----	36	UNCH	103.00B	24.50A	
2485	25.75	25.75	*25.25A	----	26.00-	40	.244	----	30	80	UNCH	75.25B	25.25A
2490	----	----	*26.00A	----	26.70-	40	.251	----	12	UNCH	107.50B	26.00A	
2495	----	----	*26.75A	----	27.50-	40	.259	----	1	UNCH	79.00B	26.75A	
2500	----	----	*27.50A	----	28.30-	40	.267	----	4	85 +	4	112.00B	27.50A
2505	----	----	*28.25A	----	29.10-	40	.276	----	51	UNCH	82.75B	28.25A	
2510	----	----	*29.25A	----	30.00-	40	.284	----	79	UNCH	116.50B	29.25A	
2515	----	----	*30.00A	----	30.90-	40	.293	----	18	UNCH	87.00B	30.00A	
2520	----	----	*31.00A	----	31.80-	40	.302	----	19	UNCH	121.50B	31.00A	
2525	----	----	*32.00A	----	32.70-	50	.312	----	455	UNCH	124.00B	32.00A	
2530	----	----	*33.00A	----	33.70-	50	.322	----	371	UNCH	126.75B	33.00A	
2535	----	----	*34.00A	----	34.80-	50	.332	----	44	UNCH	96.00B	34.00A	
2540	----	----	*35.00A	----	35.90-	50	.343	----	24	UNCH	132.25B	35.00A	
2545	----	----	*36.00A	----	37.00-	50	.354	----	68	UNCH	100.75B	36.00A	
2550	----	----	*37.25A	----	38.20-	60	.365	----	676	UNCH	138.00B	37.25A	
2555	----	----	*38.25A	----	39.40-	60	.377	----	20	UNCH	106.00B	38.25A	
2560	----	----	*39.50A	----	40.70-	60	.389	----	60	UNCH	144.25B	39.50A	
2565	----	----	*41.00A	----	42.00-	70	.402	----	54	UNCH	111.50B	41.00A	
2570	42.50	43.50B	*42.25A	----	43.40-	70	.415	----	9	119 +	9	150.50B	42.25A
2575	----	----	*43.75A	----	44.90-	60	.429	----	196	UNCH	153.75B	43.75A	
2580	----	----	*45.00A	----	46.40-	60	.443	----	40	UNCH	157.25B	45.00A	
2585	----	----	*46.75A	----	48.00-	60	.457	----	4	UNCH	123.50B	46.75A	
2590	49.25	50.00B	*48.25A	----	49.70-	50	.472	----	2	4 +	2	164.25B	48.25A
2595	----	----	*50.00A	----	51.40-	50	.487	----	51	UNCH	130.00B	50.00A	
2600	53.00	53.75B	*51.75A	----	53.20-	40	.503	----	21	41 +	21	171.50B	51.75A
2605	----	----	*53.50A	----	55.20-	20	.519	----	10	UNCH	136.75B	53.50A	
2615	----	59.75B	*57.25A	----	59.20-	10	.553	----	10	UNCH	144.00B	57.25A	
2620	----	61.75B	*59.50A	----	61.40	UNCH	.570	----	70	UNCH	187.00B	59.50A	
2625	63.00	64.00B	*61.50A	----	63.70+	10	.588	----	9	314 +	7	191.00B	61.50A
2630	----	66.50B	*63.75A	----	66.10+	20	.606	----	6	UNCH	195.25B	63.75A	
2635	----	68.75B	*66.25A	----	68.60+	30	.624	----	14	UNCH	159.50B	66.25A	
2640	----	71.50B	*68.75A	----	71.20+	30	.642	----	6	UNCH	203.75B	68.75A	
2645	----	74.25B	*71.50A	----	73.90+	40	.661	----	4	6 +	4	167.75B	71.50A
2650	----	77.00B	*74.25A	----	76.80+	50	.679	----	4	UNCH	212.25B	74.25A	
2680	94.75	96.75B	*93.00A	----	96.50+	NEW	.784	----	6	6 +	6	239.25B	93.00A
2700	108.00	112.25B	108.00	----	112.10+	130	.842	----	1	24	UNCH	258.00B	108.00A
TOTAL									1253	31146 +	638		
MAR18	EOM EMINI S&P P												
1175	----	----	----	----	.15	UNCH	.000	----	240	UNCH	.65B	.20A	
1200	----	----	----	----	.15	UNCH	.000	----	22	UNCH	.70B	.40A	
1250	----	----	----	----	.20	UNCH	.000	----	50	UNCH	.85B	.40A	
1275	----	----	----	----	.20	UNCH	.001	----	134	UNCH	.95B	.35	
1300	----	----	----	----	.25	UNCH	.001	----	20	UNCH	1.00B	.55A	
1325	----	----	----	----	.25	UNCH	.001	----	230	UNCH	1.10B	.30A	
1350	----	----	----	----	.30	UNCH	.001	----	783	UNCH	1.15B	.35A	
1375	----	----	----	----	.30-	5	.001	----	1033	UNCH	1.25B	.40A	
1400	----	----	----	----	.35	UNCH	.001	----	1100	UNCH	1.30B	.45A	
1425	----	----	----	----	.40	UNCH	.002	----	145	UNCH	1.40B		



PRELIMINARY

PG48	BULLETIN #226@	E-MINI S&P 500 PUT OPTIONS										wed, Nov 22, 2017				PG48
1820	2.00	2.20	*2.00	----	2.10-	5	.012	----	8	126	+	2	4.80B	2.00		
1830	----	----	*2.20A	----	2.20-	5	.013	----	----	10	UNCH	5.00B	2.20A	2.20A		
1860	----	----	*2.50A	----	2.50-	5	.015	----	----	2	UNCH	5.50B	2.50A	2.50A		
1875	----	----	*2.65A	----	2.65-	10	.016	----	----	170	UNCH	5.75B	2.65A	2.65A		
1880	----	----	*2.70A	----	2.70-	10	.016	----	----	1	UNCH	6.00B	2.70A	2.70A		
1890	----	----	*2.85A	----	2.80-	15	.017	----	----	1	UNCH	6.00B	2.85A	2.85A		
1900	----	----	*2.95A	----	2.95-	10	.018	----	----	157	UNCH	6.25B	2.95A	2.95A		
1920	3.05	3.20B	*3.05	----	3.20-	15	.019	----	6	15	+	6	6.75B	3.05		
1925	----	----	*3.25A	----	3.25-	15	.020	----	----	1	UNCH	7.00B	3.25A	3.25A		
1930	----	----	*3.35A	----	3.35-	15	.020	----	----	7	UNCH	7.25B	3.35A	3.35A		
1940	----	----	*3.50A	----	3.45-	20	.021	----	----	1	UNCH	7.50B	3.50A	3.50A		
1950	----	----	*3.65A	----	3.60-	20	.022	----	----	33	UNCH	7.75	3.65A	3.65A		
1970	----	----	*3.95A	----	3.95-	15	.024	----	----	1	UNCH	8.25B	3.95A	3.95A		
1975	----	----	*4.05A	----	4.05-	15	.025	----	----	44	UNCH	8.50B	4.05A	4.05A		
1990	----	----	*4.30A	----	4.30-	20	.027	----	----	22	UNCH	9.00	4.30A	4.30A		
2000	4.45	4.55B	*4.45	----	4.50-	15	.028	----	10	201	UNCH	9.50	4.45	4.45		
2010	----	----	*4.65A	----	4.70-	15	.030	----	----	4	UNCH	10.00	4.65A	4.65A		
2020	----	----	*4.85A	----	4.90-	20	.031	----	----	31	UNCH	10.00B	4.85A	4.85A		
2025	----	----	*4.95A	----	5.00-	20	.032	----	----	218	UNCH	10.25B	4.95A	4.95A		
2030	----	----	----	----	5.10-	20	.032	----	----	24	UNCH	10.50B	5.25A	5.25A		
2040	5.25	5.25	*5.25	----	5.30-	20	.034	----	304	340	+	304	11.25	5.25		
2050	----	----	*5.50A	----	5.60-	10	.036	----	----	1906	UNCH	11.75	5.50A	5.50A		
2060	----	----	*5.75A	----	5.80-	10	.037	----	----	201	UNCH	11.75B	5.75A	5.75A		
2070	6.00	6.00	*6.00	----	6.00-	20	.039	----	306	396	+	208	12.25B	6.00		
2075	----	----	----	----	6.20-	10	.040	----	----	375	UNCH	12.50B	6.50A	6.50A		
2080	----	----	*6.25A	----	6.30-	10	.041	----	----	2	UNCH	12.75B	6.25A	6.25A		
2090	----	----	*6.50A	----	6.50-	20	.042	----	----	2	UNCH	13.25B	6.50A	6.50A		
2100	6.75	7.00	*6.75	----	6.80-	20	.044	----	17	74	+	9	13.75	6.75		
2110	----	----	*7.25A	----	7.10-	30	.047	----	----	208	UNCH	14.25B	7.25A	7.25A		
2120	----	----	*7.50A	----	7.40-	30	.049	----	----	167	UNCH	14.75B	7.50A	7.50A		
2125	----	----	*7.50A	----	7.60-	30	.050	----	----	62	UNCH	15.00B	7.50A	7.50A		
2130	----	----	*7.75A	----	7.70-	40	.051	----	----	16	UNCH	15.50B	7.75A	7.75A		
2140	----	----	*8.00A	----	8.10-	30	.054	----	----	145	UNCH	16.00B	8.00A	8.00A		
2150	----	----	*8.50A	----	8.50-	30	.056	----	----	141	UNCH	17.75B	8.50A	8.50A		
2160	----	----	*8.75A	----	8.90-	30	.059	----	----	106	UNCH	17.50B	8.75A	8.75A		
2170	----	----	*9.25A	----	9.30-	30	.062	----	----	21	UNCH	18.00B	9.25A	9.25A		
2175	----	----	*9.25A	----	9.50-	30	.064	----	----	112	UNCH	18.50B	9.25A	9.25A		
2180	----	----	*9.50A	----	9.80-	20	.065	----	----	10	UNCH	18.75B	9.50A	9.50A		
2190	----	----	*10.00A	----	10.20-	20	.068	----	----	66	UNCH	19.50B	10.00A	10.00A		
2200	----	----	*10.25A	----	10.60-	20	.071	----	----	39	UNCH	20.25	10.25A	10.25A		
2210	----	----	*10.75A	----	11.10-	20	.075	----	1	152	-	1	21.00B	10.75A		
2220	----	----	*11.25A	----	11.60-	10	.079	----	----	354	UNCH	22.00B	11.25A	11.25A		
2225	----	----	*11.50A	----	11.80-	10	.080	----	----	83	UNCH	22.25B	11.50A	11.50A		
2230	----	----	*11.75A	----	12.10-	10	.082	----	----	31	UNCH	22.75B	11.75A	11.75A		
2240	----	----	*12.25A	----	12.60-	10	.086	----	----	151	UNCH	23.75B	12.25A	12.25A		
2250	----	----	*12.75A	----	13.10-	20	.090	----	----	51	UNCH	24.50	12.75A	12.75A		
2260	----	----	*13.25A	----	13.70-	10	.094	----	----	2	UNCH	25.50B	13.25A	13.25A		
2270	----	----	*13.75A	----	14.20-	20	.098	----	----	62	UNCH	26.50B	13.75A	13.75A		
2275	----	----	*14.25A	----	14.50-	30	.101	----	----	496	UNCH	27.00B	14.25A	14.25A		
2280	----	----	*14.50A	----	14.80-	30	.103	----	----	188	UNCH	27.75B	14.50A	14.50A		
2290	----	----	*15.00A	----	15.40-	30	.108	----	----	1	UNCH	28.75B	15.00A	15.00A		
2300	----	----	*15.75A	----	16.10-	30	.113	----	----	629	UNCH	30.00B	15.75A	15.75A		
2310	----	----	*16.50A	----	16.80-	20	.118	----	----	2	UNCH	31.25B	16.50A	16.50A		
2320	----	----	*17.25A	----	17.50-	20	.124	----	----	209	UNCH	32.50B	17.25A	17.25A		
2325	----	----	*17.50A	----	17.80-	30	.126	----	1	914	UNCH	33.00B	17.50A	17.50A		
2330	----	----	*18.00A	----	18.20-	30	.130	----	----	1	UNCH	33.75B	18.00A	18.00A		
2340	----	----	*18.75A	----	19.00-	30	.136	----	1	2	+	1	35.00B	18.75A	18.75A	
2350	----	----	*19.50A	----	19.90-	20	.143	----	----	413	UNCH	36.50B	19.50A	19.50A		
2360	20.50	20.50	*20.25A	----	20.80-	20	.150	----	100	100	+	94	38.00B	20.25A	20.25A	
2370	----	----	*21.25A	----	21.70-	30	.157	----	----	78	UNCH	39.50B	21.25A	21.25A		
2375	----	----	*21.75A	----	22.20-	30	.161	----	----	754	UNCH	40.50B	21.75A	21.75A		
2380	----	----	*22.25A	----	22.70-	30	.164	----	----	137	UNCH	41.25B	22.25A	22.25A		
2390	----	----	*23.25A	----	23.80-	20	.173	----	----	91	UNCH	43.00B	23.25A	23.25A		
2400	----	----	*24.25A	----	24.80-	30	.181	----	----	207	UNCH	44.75B	24.25A	24.25A		
2410	----	----	*25.25A	----	26.00-	20	.190	----	----	402	UNCH	46.75B	25.25A	25.25A		
2420	----	----	*26.50A	----	27.20-	20	.200	----	----	1	UNCH	48.50B	26.50A	26.50A		
2425	----	----	*27.00A	----	27.80-	30	.205	----	101	1074	+	45	49.50B	27.00A	27.00A	
2430	----	----	*27.75A	----	28.40-	30	.210	----	----	147	UNCH	50.75B	27.75A	27.75A		
2440	----	----	*29.00A	----	29.80-	20	.220	----	1	155	+	1	52.75B	29.00A	29.00A	
2450	----	----	*30.25A	----	31.20-	20	.231	----	----	1177	UNCH	55.00B	30.25A	30.25A		
2460	----	----	*31.75A	----	32.60-	30	.243	----	----	200	UNCH	57.50B	31.75A	31.75A		
2470	----	----	*33.25A	----	34.20-	20	.255	----	----	70	UNCH	60.00B	33.25A	33.25A		
2475	----	----	*34.00A	----	35.00-	20	.262	----	1	103	UNCH	61.25B	34.00A	34.00A		
2480	----	----	*34.75A	----	35.80-	30	.268	----	----	28	UNCH	62.75B	34.75A	34.75A		
2500	----	----	*38.25A	----	39.40-	20	.297	----	----	766	UNCH	68.50B	38.25A	38.25A		
2510	----	----	*40.25A	----	41.40-	20	.313	----	----	2	UNCH	71.75B	40.25A	40.25A		
2520	----	----	*42.25A	----	43.40-	30	.329	----	----	12	UNCH	75.00B	42.25A	42.25A		
2525	----	----	*43.25A	----	44.50-	30	.337	----	----	11	UNCH	76.75B	43.25A	43.25A		
2530	----	----	*44.50A	----	45.60-	30	.346	----	1	11	-	1	78.50B	44.50A	44.50A	
2540	----	----	*46.75A	----	48.00-	30	.364	----	----	94	UNCH	88.00B	46.75A	46.75A		
2550	----	----	*49.25A	----	50.50-	30	.384	----	1	1038	+	1	86.25B	49.25A	49.25A	
2560	----	----	*51.75A	----	53.20-	30	.404	----	----	58	UNCH	90.25B	51.75A	51.75A		
2570	----	----	*54.50A	----	56.10-	20	.426	----	1	83	UNCH	94.75B	54.50A	54.50A		
2575	----	----	*56.00A	----	57.60-	20	.437	----	----	103	UNCH	97.00B	56.00A	56.00A		
2580	----	----	*57.50A	----	59.10-	20	.448	----	----	50	UNCH	99.50B	57.50A	57.50A		
2590	----	----	*60.75A	----	62.20-	20	.472	----	----	99	UNCH	104.00B	60.75A	60.75A		
2600	----	66.00B	*64.00A	----	65.50-	10	.497	----	2	88	+	1	109.25B	64.00A	64.00A	
2610	----	70.00B	*67.75A	----	69.50	UNCH	.524	----	----	1	UNCH	115.00B	67.75A	67.75A		
2625	----	76.25B	*73.75A	----	75.50+	20	.565	----	----	36	UNCH	123.75B	73.75A	73.75A		
2630	----	78.25B	*76.00A	----	77.80+	30	.579	----	----	38	UNCH	127.00B	76.00A	76.00A		
2640	----	83.00B	*80.50A	----	82.50+	30	.609	----	----	23	UNCH	133.50B	80.50A	80.50A		
2650	86.25	88.00B	*85.50A	----	87.60+	40	.638	----	29	36	+	21	140.25B	85.50A	85.50A	
2660	----	93.50B	*90.75A	----	93.10+	60	.668	----	----	103	UNCH	147.25B	90.75A	90.75A		
2700	----	119.25B	115.75A	----	119.10+	120	.783	----	----	32	UNCH	178.75B	115.75A	115.75A		
2710	----	126.50B	*122.75A	----	126.50+	120	.808	----	----	42	UNCH	187.50B	122.75A	122.75A		
2725	----	138.50B	134.50A	----	138.40+	150	.843	----	----	45	UNCH	200.50B	134.25A	134.25A		
2730	----	142.50B	138.50A	----</												



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Table with columns: PG48, BULLETIN #226@, E-MINI S&P 500 PUT OPTIONS, wed, Nov 22, 2017, PG48. Contains multiple columns of market data for put options.

ADDITIONAL E-MINI S&P PUTS

Table with columns: STRIKE, OPEN, RANGE, HIGH, LOW, CLOSING, RANGE, SETT. PRICE & PT. CHGE., DELTA, EXER CISES, VOLUME TRADES CLEARED, OPEN INTEREST, --CONTRACT-- HIGH, LOW. Contains detailed market data for additional put options.

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PG48 BULLETIN #226@ E-MINI S&P 500 PUT OPTIONS wed, Nov 22, 2017 PG48

Table with columns for price, bid, ask, volume, and other market data for E-MINI S&P 500 PUT OPTIONS. Includes a 'TOTAL' row and a 'FEB18 EOW3 MINI S&P P' section at the bottom.

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Table with columns for price, bid, ask, volume, and other market data for E-MINI S&P 500 PUT OPTIONS. Rows range from 1570 to 2560.

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Table with columns: PG48, BULLETIN #226@, E-MINI S&P 500 PUT OPTIONS, wed, Nov 22, 2017, PG48. Contains multiple sections of market data including APR18 EOW3 MINI S&P P and MDW MID MDW MID (FUTURES SETT. .00).

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PG48 BULLETIN #226@ E-MINI S&P 500 PUT OPTIONS wed, Nov 22, 2017 PG48

Table with columns for contract details (symbol, price, quantity, etc.) and market data (open, high, low, volume, etc.). Includes sections for MMW MID and RTM EOM.

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Table with columns: PG48, BULLETIN #226@, E-MINI S&P 500 PUT OPTIONS, wed, Nov 22, 2017, PG48. Contains multiple rows of market data for put options, including prices, volumes, and settlement information.





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PG48	BULLETIN #226@	E-MINI S&P 500 PUT OPTIONS								wed, Nov 22, 2017		PG48	
1480	----	----	*17.40A	----	19.40	UNCH	.321	----	2	27 +	2	100.70B	17.40A
1480	----	23.50B	*22.00A	----	24.00+	0.60	.339	----	----	1	UNCH	54.30B	22.00A
1485	----	----	*18.60A	----	20.80+	0.10	.341	----	----	13	UNCH	66.60B	18.60A
1490	----	----	*19.80A	----	22.20+	0.10	.361	----	----	1	UNCH	107.80B	19.80A
1495	----	23.70B	*21.20A	----	23.80+	0.20	.382	----	----	3	UNCH	72.50B	21.20A
1500	----	29.80B	*27.70A	----	30.10+	0.60	.413	----	----	1	UNCH	65.80B	27.70A
1500	----	25.50B	*22.70A	----	25.40+	0.10	.404	----	----	12	UNCH	115.50B	22.70A
1505	----	27.20B	*24.20A	----	27.20+	0.20	.427	----	----	1	UNCH	78.80B	24.20A
1510	----	29.20B	*25.90A	----	29.10+	0.20	.450	----	----	6	UNCH	123.30B	25.90A
1515	----	31.20B	*27.70A	----	31.20+	0.30	.475	----	1	1	UNCH	85.50B	27.70A
1520	----	33.40B	*29.60A	----	33.30+	0.30	.499	----	----	1	UNCH	131.20B	29.60A
1525	----	35.70B	*31.70A	----	35.60	NEW	.525	----	1	1 +	1	135.60B	31.70A
1530	----	38.20B	*33.90A	----	38.10+	0.50	.550	----	----	1	UNCH	139.80B	33.90A
TOTAL									83	1684 +	24		
FEB18	RTM EOM		(FUTURES SETT. .00)										
1050	----	----	----	----	.95-	0.05	.010	----	----	2	UNCH	----	----
1200	----	----	----	----	2.65-	0.05	.031	----	----	6	UNCH	5.00B	3.10A
1225	----	----	----	----	3.20	UNCH	.038	----	----	5	UNCH	6.20B	3.55
1380	----	----	*11.00A	----	11.30+	0.10	.144	----	----	10	UNCH	24.50B	11.00A
1450	----	21.50B	*20.50A	----	21.80+	0.40	.272	----	2	----	2	45.60B	20.50A
1480	----	28.90B	*27.30A	----	29.20	NEW	.355	----	2	2 +	2	59.40B	27.30A
TOTAL									4	25			
APR18	RTM EOM		(FUTURES SETT. .00)										
1360	----	----	*20.30A	----	20.70+	0.20	.179	----	----	10	UNCH	----	20.30A
1430	----	----	*31.90A	----	32.90+	0.30	.280	----	----	1	UNCH	----	31.90A
TOTAL									0	11			

E-MINI S&P 500 FIXING PRICE (ESF): Mar18 2595.68

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PG48 BULLETIN #226@

E-MINI S&P 500 PUT OPTIONS

Wed, Nov 22, 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
EMINI S&P CALL DEC17 CALL	E-MINI S&P 500 OPTIONS						
EZ	1500	----	----	----	----	3	0.00
EZ	1570	----	----	----	----	2	0.00
EZ	1600	----	----	----	----	17	0.00
EZ	1750	----	----	----	----	9	0.00
EZ	1760	----	----	----	----	11	0.00
EZ	1770	----	----	----	----	9	0.00
EZ	1775	----	----	----	----	8	0.00
EZ	1780	----	----	----	----	5	0.00
EZ	1790	----	----	----	----	7	0.00
EZ	1800	----	----	----	----	4	0.00
EZ	1810	----	----	----	----	9	0.00
EZ	1820	----	----	----	----	9	0.00
EZ	1825	----	----	----	----	11	0.00
EZ	1830	----	----	----	----	7	0.00
EZ	1840	----	----	----	----	6	0.00
EZ	1850	----	----	----	----	6	0.00
EZ	1860	----	----	----	----	8	0.00
EZ	1870	----	----	----	----	4	0.00
EZ	1875	----	----	----	----	13	0.00
EZ	1880	----	----	----	----	1	0.00
EZ	1890	----	----	----	----	4	0.00
EZ	1900	----	----	----	----	13	0.00
TOTALS		0	0	0	0	166	0
MAR18 CALL EZ	1590	----	----	----	----	5	0.00
TOTALS		0	0	0	0	5	0
MDW MID NOV17 CALL	E-MINI S&P 500 WEDNESDAY WEEKLY OPT						
E4C	2285	----	----	----	2	2	0.00
E4C	2290	----	----	----	1	1	0.00
E4C	2405	----	----	----	2	2	0.00
E4C	2425	----	----	----	1	1	0.00
E4C	2430	----	----	----	2	2	0.00
E4C	2445	----	----	----	1	1	0.00
E4C	2460	----	----	----	1	1	0.00
E4C	2475	----	----	----	1	1	0.00
E4C	2480	----	----	----	2	2	0.00
E4C	2485	----	----	----	5	5	0.00
E4C	2490	----	----	----	8	8	0.00
E4C	2495	----	----	----	4	4	0.00
E4C	2500	----	----	----	8	8	0.00
E4C	2505	----	----	----	14	14	0.00
E4C	2510	----	----	----	6	6	0.00
E4C	2515	----	----	----	14	14	0.00
E4C	2520	----	----	----	10	10	0.00
E4C	2525	----	----	----	8	8	0.00
E4C	2530	----	----	----	4	4	0.00
E4C	2535	----	----	----	6	6	0.00
E4C	2540	----	----	----	5	5	0.00
E4C	2545	----	----	----	1	1	0.00
E4C	2550	----	----	----	14	14	0.00
E4C	2555	----	----	----	23	23	0.00
E4C	2560	----	----	----	38	38	0.00
E4C	2565	----	----	----	39	39	0.00
E4C	2570	----	----	----	56	56	0.00
E4C	2575	----	----	----	598	598	0.00
E4C	2580	----	----	----	987	987	0.00
E4C	2585	----	----	----	882	882	0.00
E4C	2590	----	----	----	1628	1628	0.00
E4C	2595	----	----	----	1588	1588	0.00
TOTALS		0	0	0	5959	5959	0
MDW MID NOV17 PUT	E-MINI S&P 500 WEDNESDAY WEEKLY OPT						
E4C	2600	----	----	----	1117	1117	0.00
E4C	2605	----	----	----	5	5	0.00
E4C	2610	----	----	----	7	7	0.00
E4C	2615	----	----	----	3	3	0.00
E4C	2620	----	----	----	1	1	0.00
E4C	2625	----	----	----	3	3	0.00
E4C	2630	----	----	----	1	1	0.00
E4C	2640	----	----	----	2	2	0.00
E4C	2645	----	----	----	1	1	0.00
E4C	2655	----	----	----	6	6	0.00



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PG48 BULLETIN #226@	E-MINI S&P 500 PUT OPTIONS					Wed, Nov 22, 2017	PG48
TOTALS	0	0	0	1146	1146	0	

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