



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 30-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Nov 2018	DAEU	Future	37	16.7036	16.6458	0.0000	0.0000	0	0.00
			37					0.00	0.00
									801 399.00
									11 967 156 360.40
Option									
Aug 2019	DAEU	17.01 Put	31,200	722.3799	752.1080	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	558.7240	546.0762	0.0000	0.0000	0	0.00
			93,600					0.00	0.00
		Total	93,637					0.00	0.00
									2 191 986.00
									11 967 156 360.40
Future									
Nov 2018	DAGB	Future	13	18.6980	18.7184	0.0000	0.0000	0	0.00
			13					0.00	0.00
		Total	13					0.00	0.00
									53 954.00
									889 067 608.60
Future									
Oct 2018	DAUS	Future	0	14.5768	14.5375	0.0000	0.0000	2,710	39,524,527.00
Oct 2018	DAUS	Future	2,038	14.6083	14.5375	0.0000	0.0000	388	5,692,169.00
Nov 2018	DAUS	Future	55	14.6084	14.5375	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	70	14.6280	14.5592	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	24	14.6317	14.5628	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	308	14.6335	14.5646	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	179	14.6446	14.5755	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	368	14.6556	14.5864	0.0000	0.0000	202	2,972,127.00
Nov 2018	DAUS	Future	461	14.6574	14.5882	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	7,446	14.6593	14.5900	0.0000	0.0000	1,500	22,114,950.00
Dec 2018	DAUS	Future	500	14.6723	14.6033	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,672	14.6817	14.6128	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	2,710	14.7172	14.6490	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.7210	14.6529	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.7746	14.7069	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	920	14.7765	14.7088	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	Future	70	14.8009	14.7328	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,787	14.8290	14.7604	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.8796	14.8101	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.8834	14.8138	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.8909	14.8212	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.9434	14.8728	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	15.0011	14.9304	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	15.0588	14.9880	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	15.1165	15.0456	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	15.1791	15.1061	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.2379	15.1629	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.2947	15.2178	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.3614	15.2846	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.4262	15.3494	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.4868	15.4100	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.5516	15.4747	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.6164	15.5395	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.6728	15.5959	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.7439	15.6669	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.8610	15.7839	0.0000	0.0000	0	0.00		
			<u>118,528</u>					<u>4,800.00</u>	<u>70,303,773.00</u>	<u>10 761 867.00</u>	<u>131 836 014 691.20</u>
Option											
Oct 2018	DAUS	13.00 Put	500	0.0008	0.0038	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.80 Put	1,000	0.0367	0.4173	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.93 Call	500	678.3908	608.7530	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.97 Put	600	0.1354	1.7431	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.25 Put	250	2.2901	14.9688	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.34 Put	171	5.5873	27.6516	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.44 Call	171	182.7724	149.1684	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.45 Call	600	174.1648	142.3044	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.67 Call	250	38.9510	45.0983	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.82 Put	114	224.0631	303.4139	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.90 Call	600	6.7188	13.9805	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	15.01 Call	114	2.9911	8.1744	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	16.47 Call	500	0.0157	0.0259	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	17.02 Call	500	0.0131	0.0236	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.40 Put	20,000	39.3320	69.5213	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	11.90 Put	1,880	0.0000	0.0180	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.86 Put	1,880	4.6974	6.9755	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.81 Call	1,880	0.1091	0.1036	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.40 Put	20,000	93.5938	0.0000	0.0000	0.0000	20,000	0.00		
Nov 2018	DAUS	14.34 Put	171	104.6282	134.9581	0.0000	0.0000	0	0.00		

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Nov 2018	DAUS	14.50 Call	171	298.9414	268.8989	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0000	0.0194	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.0243	0.0371	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1417.3673	1349.1930	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.32 Call	15,000	417.8901	378.2620	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	204.1527	185.7010	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	196.5269	178.8899	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.78 Call	30,000	182.0015	165.9264	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	146.7609	134.5032	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	403.2609	459.9032	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.76 Call	4,000	263.7803	243.9413	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	3.8161	4.3060	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	41.0486	50.5776	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	47.0490	57.9260	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	670.1549	621.1006	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	139.6245	166.8502	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	516.0249	476.0850	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	262.0856	243.1135	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	254.8616	236.5189	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	12.7176	12.2939	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	3.8711	3.7074	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	903.6072	966.2726	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	66.8610	81.9269	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	176.8371	206.5670	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	489.0318	540.9070	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	783.9960	844.4645	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	37.3603	47.3066	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	68.9346	84.0906	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	228.4110	214.9401	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	107.9432	102.9526	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	96.6071	113.4098	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	218.5579	248.7996	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	530.7279	580.1256	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	816.1153	873.6207	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	15.6409	18.3466	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	19.8697	25.1368	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	427.9348	401.4702	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	389.0776	365.9486	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	16.7194	18.8874	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	94.7418	109.6599	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	710.3286	669.5121	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	224.2935	252.5924	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	14.96 Put	250	593.9435	642.8792	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	49.7616	48.3596	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	26.5894	26.1842	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	17.7648	19.2150	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.88 Call	4,000	497.3611	472.7952	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	36.9180	40.1532	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	266.8061	293.2210	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	286.4816	314.0960	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	738.0293	701.0524	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	413.2508	393.6675	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	317.6910	303.4746	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	54.2000	59.3802	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	314.2839	341.9922	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	334.8188	363.5888	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	767.4994	733.2873	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	467.8511	447.9081	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	369.8362	354.7618	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	279.9495	302.2371	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	72.1873	77.6792	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	356.8419	385.5970	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	377.9498	407.6565	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	794.9833	762.7702	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	512.1876	491.9206	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	417.6226	401.8096	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.04 Call	4,000	728.0445	700.6955	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	88.4282	96.0940	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1627.3167	1571.9689	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	395.9961	425.2315	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	417.4780	447.6047	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	820.1039	789.5950	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	551.6307	531.7665	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	463.3516	447.4432	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	101.9064	111.2348	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	432.2771	459.6787	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	452.6832	482.3852	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	844.8240	815.6787	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	588.6098	569.3400	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	501.6869	485.8560	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	706.8957	744.5257	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	354.4537	343.8586	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	111.6914	122.1233	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	462.1855	489.6283	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	14.25 Put	250	482.8120	511.0478	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	864.0606	836.0622	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	617.6772	598.7370	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	533.6824	517.9118	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	216.6602	234.0154	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	520.1925	505.2521	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	121.0351	132.7084	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	494.0369	521.3074	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	514.8504	542.8549	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	892.1510	865.2191	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	653.9156	635.2807	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	572.5110	556.5806	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	631.4716	665.2368	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	635.1471	617.4556	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	130.6429	146.6842	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	520.3836	548.3107	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	541.2925	569.9684	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	910.1970	883.4327	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	680.3094	661.5068	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	599.1284	582.6260	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	313.0761	309.9629	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	146.0632	158.8440	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	544.5612	572.4804	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	565.7132	594.2632	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	935.6681	908.7885	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	711.1285	691.8100	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	627.6150	609.7252	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	159.7673	172.6328	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	567.8735	596.2087	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	589.0851	618.1132	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	952.6504	926.2004	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	735.2449	716.0300	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	653.4533	635.8067	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	175.2870	191.1494	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	589.2870	618.6482	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	610.7731	640.9030	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	981.0555	955.6804	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	767.7559	748.8873	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	687.2951	670.4181	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	189.0464	208.4079	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	609.7662	639.7470	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	631.4862	662.2159	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	16.21 Call	500	1009.7718	985.1816	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	802.4127	783.6246	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	723.6772	707.1512	0.0000	0.0000	0	0.00	
			881,709					20,000.00	0.00	21 118 416.00
		Total	1,000,237					24,800.00	70,303,773.00	31 880 283.00 131 836 014 691.20
Future										
Dec 2018	EUUS	Future	40	1.1413	1.1422	0.0000	0.0000	0	0.00	
			40					0.00	0.00	744 445.00 8 445 126 755.00
		Total	40					0.00	0.00	744 445.00 8 445 126 755.00
Future										
Dec 2018	GBUS	Future	250	1.2767	1.2838	0.0000	0.0000	0	0.00	
			250					0.00	0.00	169 671.00 2 183 289 974.00
		Total	250					0.00	0.00	169 671.00 2 183 289 974.00
Future										
Dec 2018	ZAAD	Future	33,972	10.3697	10.3214	0.0000	0.0000	0	0.00	
Mar 2019	ZAAD	Future	420	10.5096	10.4609	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	4,929	10.6437	10.5945	0.0000	0.0000	0	0.00	
			39,321					0.00	0.00	3 746 314.00 32 657 467 466.80
		Total	39,321					0.00	0.00	3 778 691.00 32 657 467 466.80
Future										
Dec 2018	ZACA	Future	500	11.1917	11.1485	0.0000	0.0000	0	0.00	
Mar 2019	ZACA	Future	400	11.3477	11.3033	0.0000	0.0000	0	0.00	
			900					0.00	0.00	138 903.00 1 369 104 061.60
		Total	900					0.00	0.00	138 903.00 1 369 104 061.60
Future										
Dec 2018	ZADK	Future	240	2.2478	2.2381	0.0000	0.0000	0	0.00	
			240					0.00	0.00	12 335.00 265 809 909.00
		Total	240					0.00	0.00	12 335.00 265 809 909.00
Future										
Dec 2018	ZAEU	Future	106,093	16.7604	16.6956	16.8571	16.8154	170	2,859,511.00	
Mar 2019	ZAEU	Future	36,313	17.1116	17.0494	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	Future	4,906	17.4396	17.3762	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	Future	8,262	17.8049	17.7385	0.0000	0.0000	0	0.00	
			155,574					170.00	2,859,511.00	15 601 223.00 224 360 762 402.30
Option										

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Mar 2019	ZAEU	15.60 Put	462	135.1833	147.8187	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	16.00 Call	650	1341.3834	1297.3768	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	17.33 Put	462	852.9610	893.1409	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	19.65 Call	462	174.9574	169.4903	0.0000	0.0000	0	0.00	
			2,036					0.00	0.00	10 794 964.00
		Total	157,610					170.00	2,859,511.00	26 396 187.00 224 360 762 402.30
Future										
Dec 2018	ZAFR	Future	1,666	14.7048	14.6730	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	15.3300	15.3033	0.0000	0.0000	0	0.00	
			1,816					0.00	0.00	620 658.00 6 669 112 028.20
		Total	1,816					0.00	0.00	620 658.00 6 669 112 028.20
Future										
Dec 2018	ZAGB	Future	437,894	18.7494	18.7650	18.8809	18.8332	420	7,886,263.60	
Mar 2019	ZAGB	Future	9,145	19.0715	19.0921	19.2049	19.1454	1,003	19,207,914.70	
Jun 2019	ZAGB	Future	5,506	19.3704	19.3918	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	10,363	19.7012	19.7205	0.0000	0.0000	0	0.00	
			462,908					1,423.00	27,094,178.30	12 839 404.00 218 476 707 666.90
Option										
Dec 2018	ZAGB	19.30 Call	200	257.5052	267.9143	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	18.00 Put	500	358.4007	354.7951	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	880.3962	871.6629	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	479.3624	489.2346	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	432.5469	441.4097	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	207.6026	213.2312	0.0000	0.0000	0	0.00	
			4,200					0.00	0.00	1 779 113.00 0.00
		Total	467,108					1,423.00	27,094,178.30	14 618 517.00 218 476 707 666.90
Future										
Dec 2018	ZAJY	Future	6,905	0.1307	0.1304	0.0000	0.0000	0	0.00	
			6,905					0.00	0.00	1 021 902.00 11 470 576 312.50
		Total	6,905					0.00	0.00	1 021 902.00 11 470 576 312.50
Future										
Jun 2019	ZAKS	Future	2,166	0.1418	0.1428	0.0000	0.0000	0	0.00	
			2,166					0.00	0.00	38 066.00 515 662 000.00
		Total	2,166					0.00	0.00	38 066.00 515 662 000.00
Future										
Dec 2018	ZATR	Future	6,000	2.6102	2.5750	0.0000	0.0000	0	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
			6,000					0.00	0.00	
		Total	6,000					0.00	0.00	
								389 239.00	1 243 489 569.00	
		Total	6,000					0.00	0.00	
								389 239.00	1 243 489 569.00	
Future										
	Dec 2018	ZAUM	Future	307	14.6854	14.6167	14.7542	14.6844	10	14,719,300.00
	Mar 2019	ZAUM	Future	15	14.8628	14.7936	0.0000	0.0000	0	0.00
				322					10.00	14,719,300.00
		Total	322					10.00	14,719,300.00	
								153 450.00	177 486 152 110.00	
		Total	322					10.00	14,719,300.00	
								157 973.00	177 486 152 110.00	
Future										
	Dec 2018	ZAUS	Future	824,878	14.6854	14.6167	14.7900	14.6479	65,013	957,741,099.00
	Mar 2019	ZAUS	Future	53,049	14.8628	14.7936	14.9500	14.8450	425	6,341,310.00
	Jun 2019	ZAUS	Future	19,476	15.0271	14.9564	15.1200	15.0097	2,100	31,648,470.00
	Sep 2019	ZAUS	Future	18,444	15.2065	15.1326	0.0000	0.0000	0	0.00
	Dec 2019	ZAUS	Future	5,200	15.3844	15.3076	0.0000	0.0000	6,000	92,109,000.00
	Mar 2020	ZAUS	Future	3,966	15.5809	15.5040	0.0000	0.0000	0	0.00
				925,013					73,538.00	1,087,839,879.00
		Total	925,013					73,538.00	1,087,839,879.00	
								188 608 951.00	2 261 373 495 157.60	
		Total	925,013					73,538.00	1,087,839,879.00	
								188 608 951.00	2 261 373 495 157.60	
Option										
	Dec 2018	ZAUS	11.64 Put	2,764	1.0557	1.2668	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	11.75 Put	228,616	1.3776	1.5518	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	11.90 Put	11,300	1.6669	1.8544	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.00 Put	174,530	1.8960	2.0921	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.02 Put	5,500	1.9458	2.1436	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.10 Put	8,580	2.1598	2.3642	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.20 Put	7,300	2.4643	2.6767	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.25 Put	3,300	2.6341	2.8501	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.38 Put	39,589	3.1393	3.3642	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.50 Call	228,616	2189.1029	2120.6343	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.50 Put	26,400	3.7029	3.9343	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.63 Put	39,589	4.4447	4.6816	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.68 Put	10,000	4.7737	5.0118	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.75 Put	1,000	5.2811	5.5207	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	12.95 Put	500	7.1033	7.3427	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	13.00 Call	6,000	1693.0645	1624.6030	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	13.00 Put	177,520	7.6645	7.9030	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	13.05 Put	1,500	8.2772	8.5146	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	13.10 Put	11,300	8.9462	9.1823	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	13.20 Call	7,100	1495.8787	1428.7589	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	13.22 Put	5,500	10.8199	13.0198	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	13.25 Call	10,000	1446.7565	1381.2764	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	13.25 Put	17,800	11.3565	14.5764	0.0000	0.0000	0	0.00
	Dec 2018	ZAUS	13.32 Put	13,650	14.7391	18.7978	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.33 Put	135,000	15.2857	19.4733	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1258.6149	1195.8807	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	23.2149	29.1807	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1212.7572	1150.8951	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	27.3572	34.1951	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	37.3673	46.1883	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	47.2396	57.8752	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	49.9916	61.1120	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	57.3986	69.7841	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	63.8917	77.3425	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,068	950.9966	896.0196	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	65.5966	79.3196	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	84.5311	101.4248	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	830.7467	780.7918	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	792.8847	744.4883	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	107.4847	127.7883	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	134.8466	158.3688	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	140.8246	165.0048	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	699.2789	655.0895	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	150.1173	175.2892	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	153.3017	178.8043	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	651.8766	610.0112	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	166.4766	193.3112	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	180.3547	208.5294	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	619.3355	579.1463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	202.5061	232.6945	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	569.5860	532.0802	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	214.1860	245.3802	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	557.5966	520.7594	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	222.1966	254.0594	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	238.7537	271.9508	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	528.4055	493.2333	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	505.8598	472.0083	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	473.3760	441.4833	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	287.9760	324.7833	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	292.7175	329.8486	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	422.7622	394.0474	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,500	337.3622	377.3474	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	417.9402	389.7477	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	413.1612	385.4874	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	374.5038	418.1100	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	376.4555	352.8875	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.74 Put	13,150	414.5554	460.8430	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	355.9315	333.8041	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	420.5315	467.1041	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	336.4176	315.6746	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	451.0176	498.9746	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	321.5126	301.8347	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	317.8810	298.4632	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	514.8878	565.4394	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	267.7954	252.0082	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	582.3954	635.3082	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	264.7343	249.1723	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	241.4283	227.5735	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	238.6566	225.0066	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	225.2582	212.5916	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	4,050	212.5944	200.8592	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	727.1944	784.1592	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	765.2312	823.0751	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	803.9355	862.6059	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	174.5815	165.5153	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	157.2454	148.9960	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	153.5396	145.5549	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	149.9186	142.1921	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	964.5186	1025.4921	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	148.1408	140.5416	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	134.6494	128.0083	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	133.0507	126.5244	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	131.4726	125.0565	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	118.0876	112.6084	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	113.9380	108.7472	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1254.5579	1319.0218	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	98.7780	94.6217	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	91.9913	88.2882	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,050	82.7037	79.6100	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	72.6631	69.7315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	70.1535	67.1557	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	64.9776	62.2830	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	61.6877	59.2318	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	40.6538	39.6463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	29.7321	29.3866	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	22.9295	22.9428	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.6451	2.8421	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	9.1489	9.1488	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	12.47 Put	721	28.4130	30.6345	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	30.3359	32.7418	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	55.7065	60.5870	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	57.3865	62.4299	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	64.5366	70.2746	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	69.3729	75.5772	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	76.6464	83.5510	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	79.9518	87.1719	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	91.8329	100.1778	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	102.3466	112.6971	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	106.8721	118.3198	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	1,800	114.0918	126.1262	0.0000	0.0000	900	0.00
Mar 2019	ZAUS	13.46 Put	20,000	125.5675	138.5058	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	133.6614	147.2176	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	144.2847	158.6370	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	155.4875	170.6511	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	174.6382	191.1450	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	179.6669	196.5158	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	184.7933	201.9871	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	192.6702	210.3833	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	203.5171	221.9375	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	223.4678	243.1428	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	235.4316	255.8319	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	267.1466	289.3981	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	280.5628	303.5652	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	341.0868	368.6686	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	374.8139	404.0680	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	946.3285	906.7963	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	405.8007	436.5062	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	1,800	438.1438	470.2971	0.0000	0.0000	900	0.00
Mar 2019	ZAUS	14.44 Put	7,000	447.6340	480.1981	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	452.4166	485.1873	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	849.7379	813.9196	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	839.5505	804.1390	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	476.7505	510.5390	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	491.6765	526.0707	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	506.8394	541.8357	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	553.7554	590.5383	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	602.7650	641.2982	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	642.2915	682.2048	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	648.0378	688.1913	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	653.8048	694.2016	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Mar 2019	ZAUS	14.84 Put	134,750	659.5997	700.2356	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	623.0337	597.1305	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	781.6198	825.7491	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	820.0195	865.1225	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	832.9964	878.4194	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	839.5172	885.0973	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	558.6056	535.6140	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	879.0796	925.5941	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	885.7442	932.4142	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	967.3328	1015.7834	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	471.6674	452.7300	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	468.8391	450.0346	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	457.6979	439.4283	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	452.2368	434.2251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	446.8418	429.0887	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	416.0306	399.7468	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	380.8948	366.1680	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	376.4648	361.9334	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	363.5174	349.5613	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	1,800	345.0304	331.8953	0.0000	0.0000	900	0.00
Mar 2019	ZAUS	16.00 Call	10,000	341.0679	328.1081	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	316.5440	304.6792	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	287.4881	276.9146	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	274.5491	264.0027	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	243.6579	234.4972	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	240.7854	231.7514	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	194.9981	188.0120	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	193.8727	186.9394	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	188.3595	181.6705	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	181.9759	175.5719	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	180.9353	174.5777	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	179.9038	173.5899	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	167.0675	161.3221	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	160.5943	155.1333	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	143.6361	138.9169	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	112.7581	110.1206	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	97.4628	95.3653	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.2901	7.2633	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	26.5564	31.8677	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	69.2458	78.8743	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	102.5656	114.6379	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	105.9134	118.2061	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	13.24 Put	30,000	152.1691	167.1384	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.83 Put	25,000	312.6752	333.8418	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.88 Put	5,035	329.2486	351.1495	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.98 Call	1,000	1411.1004	1363.7824	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.42 Call	30	1153.2450	1115.6880	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	1073.5126	1038.4252	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.63 Put	8,203	652.6322	688.9941	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	964.1052	932.5408	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,000	850.6720	822.4790	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.55 Call	25,000	695.7955	673.0088	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	674.6066	652.5817	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	623.3643	603.5186	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	591.9837	573.3526	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	572.0911	554.2365	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	254.8677	247.9173	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	13.5333	14.0094	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	56.0258	63.1572	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	420.8757	444.4794	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	442.9085	467.4440	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	488.9877	515.4012	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	508.9799	536.1732	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	537.7419	566.0417	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	589.1429	619.3493	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	783.0809	820.2499	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1175.9738	1220.5401	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.55 Call	30,000	943.1203	915.6864	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1293.2589	1339.8303	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	841.9619	817.8472	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	533.2935	518.8439	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	467.6818	455.1583	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	438.0983	426.4462	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	427.4745	416.1358	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	384.6607	375.7984	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	369.2828	360.8798	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	356.5721	348.5438	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	353.5260	345.5880	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	310.5606	303.8625	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	42.4674	46.0774	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	383.6787	410.8646	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	695.6797	679.2805	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	408.6571	398.1968	0.0000	0.0000	0	0.00		
			<u>8,239,816</u>					<u>2,700.00</u>	<u>0.00</u>	<u>60 816 821.00</u>	<u>0.00</u>

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		Total	9,164,829				76,238.00	1,087,839,879.00	249 425 772.00	2 261 373 495 157.60
		Grand Total	10,941,394				102,641.00	1 202 816 641.30	340,733,173	3,135,549,697,187.53