



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 17-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Nov 2018	DAEU	Future	37	16.5106	16.5977	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	828.6836	787.7731	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	528.1789	549.6477	0.0000	0.0000	0	0.00		
			93,600					0.00	0.00	1 390 587.00	0.00
		Total	93,637					0.00	0.00	2 191 986.00	11 967 156 360.40
Future											
Nov 2018	DAGB	Future	13	18.7271	18.8081	0.0000	0.0000	0	0.00		
			13					0.00	0.00	53 954.00	889 067 608.60
		Total	13					0.00	0.00	261 267.00	889 067 608.60
Future											
Oct 2018	DAUS	Future	0	14.2390	14.2067	0.0000	0.0000	235	3,346,165.00		
Oct 2018	DAUS	Future	70	14.2114	14.2175	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.2188	14.2247	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.2206	14.2265	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	3,858	14.2224	14.2284	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	55	14.2242	14.2302	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.2461	14.2520	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.2497	14.2556	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.2515	14.2574	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.2625	14.2684	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	166	14.2735	14.2795	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.2754	14.2813	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	8,824	14.2772	14.2832	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	500	14.2900	14.2961	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.2992	14.3053	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,714	14.3341	14.3403	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	Future	55	14.3378	14.3439	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.3892	14.3954	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,020	14.3910	14.3973	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.4149	14.4212	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,787	14.4425	14.4488	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.4922	14.4984	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.4958	14.5021	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.5032	14.5095	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.5544	14.5608	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.6101	14.6172	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.6659	14.6736	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.7220	14.7298	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.7804	14.7876	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.8353	14.8417	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.8902	14.8971	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.9549	14.9623	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0176	15.0255	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0763	15.0846	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.1390	15.1478	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2017	15.2109	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2563	15.2660	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.3251	15.3352	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.4384	15.4494	0.0000	0.0000	0	0.00		
			<u>125,423</u>					<u>235.00</u>	<u>3,346,165.00</u>	<u>10 725 334.00</u>	<u>131 308 719 625.50</u>

Option

Oct 2018	DAUS	14.50 Put	20,000	316.1972	320.3792	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	0.6436	0.7831	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	257.3589	266.8753	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	2.8916	4.0824	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	49.0744	58.0330	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	375.9567	392.2152	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	96.7504	107.2397	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	225.1862	234.5719	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.34 Put	171	279.7428	288.6053	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.44 Call	171	129.2097	143.1967	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	126.2600	140.1461	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	74.8723	86.1607	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	649.3965	652.7797	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	42.4433	50.8484	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	31.7451	38.9808	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	1.1805	1.5071	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	0.5121	0.6421	0.0000	0.0000	0	0.00

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Nov 2018	DAUS	14.00 Put	20,000	123.5824	0.0000	0.0000	0.0000	20,000	0.00
Nov 2018	DAUS	11.90 Put	1,880	0.1785	0.2352	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	89.3600	96.4089	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	1.2743	1.6232	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	360.2884	365.7807	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	213.9700	224.7012	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0449	0.0565	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.2745	0.3483	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1052.7913	1060.5265	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.32 Call	15,000	284.0149	0.0000	0.0000	0.0000	15,000	0.00
Nov 2018	DAUS	14.72 Call	5,000	159.6778	169.2995	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	155.0618	164.5668	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.78 Call	30,000	146.2154	0.0000	0.0000	0.0000	60,000	0.00
Nov 2018	DAUS	14.89 Call	5,000	124.3520	132.9550	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	762.8520	765.5550	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	0	144.2653	153.4218	0.0000	0.0000	10,000	0.00
Nov 2018	DAUS	14.62 Call	0	216.8189	227.2728	0.0000	0.0000	20,400	0.00
Nov 2018	DAUS	13.00 Put	500	15.3365	17.4684	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	156.7799	162.8055	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	174.2306	180.4066	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	466.7553	479.2820	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	355.7090	362.1186	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	360.6878	373.0086	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	199.8410	210.2464	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	195.1201	205.4246	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	16.5122	19.6737	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	7.3823	9.0624	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	1267.0016	1268.4817	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	207.9712	214.5779	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	399.2777	405.9198	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	811.3268	815.4717	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1138.1908	1140.4529	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	134.0041	140.0280	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	203.9366	210.6655	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	178.7782	188.5098	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	92.3772	99.4434	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	240.0812	246.1468	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	432.5019	438.5493	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	835.1793	839.2401	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1153.7822	1156.2893	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	58.7064	62.2639	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	74.3467	78.3567	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	14.66 Call	1,000	319.0761	330.1977	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	292.4328	303.2135	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	43.0054	45.7236	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	219.8862	225.2281	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	523.2803	534.8073	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	425.1899	430.4725	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	894.7458	897.8196	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	45.7079	49.2741	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	21.6661	25.1232	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	35.0612	35.5675	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	71.1087	74.0975	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	455.8673	460.5027	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	482.3571	486.9122	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	565.7449	576.3520	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	325.7599	334.1153	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	254.4126	261.8561	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	95.6642	99.1847	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	499.3437	504.2364	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	525.8473	530.6713	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	603.3578	613.9670	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	374.0119	382.5025	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	299.2501	306.8573	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	50,000	435.5565	440.9893	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	121.9697	125.9068	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	537.9241	543.1612	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	564.3721	569.5484	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	636.5621	647.2241	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	414.8335	423.4374	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	341.5518	349.3498	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	146.6199	150.5836	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1339.0345	1350.4832	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	573.8718	579.0277	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	600.2337	605.3408	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	667.3729	677.7719	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	453.9057	462.2651	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	384.2045	391.6681	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	167.7927	171.3565	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	606.8140	611.0864	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	633.2081	637.4264	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	695.8094	705.6490	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	489.8281	497.7352	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	418.8474	425.9935	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	14.72 Put	20,000	924.4613	927.3872	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	298.3556	304.0387	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	185.2912	186.0933	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	633.2308	636.1851	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	659.6306	662.5383	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	718.0642	727.4440	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	518.2069	525.8077	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	447.5382	455.0000	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	319.8520	324.3924	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	435.6373	443.2735	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	201.5278	201.3465	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	660.3160	663.7105	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	686.6783	690.0252	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	747.5488	757.4481	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	552.7722	560.6976	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	482.2739	490.5239	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	823.6647	827.2761	0.0000	0.0000	1,606	0.00
Aug 2019	DAUS	16.35 Call	3,147	537.8736	545.4198	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	216.3026	220.1320	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	683.2573	687.0157	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	709.5470	713.2756	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	767.2777	776.2188	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	577.8560	585.2486	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	507.5986	514.5808	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	283.4477	288.3787	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	231.0626	234.7490	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	704.1990	707.8983	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	730.4001	734.0798	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	793.1220	801.3433	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	605.8421	612.7642	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	533.8646	540.4352	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	245.9283	249.3101	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	726.9201	730.1482	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	753.0874	756.3032	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	816.0623	824.0974	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	632.1923	639.0732	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	562.6094	569.1580	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	262.8228	265.4647	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	748.5421	750.8142	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	774.6616	776.9203	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	846.5061	853.9787	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	664.3113	670.7815	0.0000	0.0000	0	0.00

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Nov 2019	DAUS	17.26 Call	250	596.1767	602.3292	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	13.00 Put	500	280.5847	282.3747	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.20 Put	250	770.3594	771.6634	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	795.4607	796.6569	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	876.9200	883.7619	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	698.8557	704.8504	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	632.1915	637.9080	0.0000	0.0000	0	0.00	
			<u>857,969</u>					<u>127,006.00</u>	<u>0.00</u>	<u>21 019 416.00</u>
		Total	983,392					127,241.00	3,346,165.00	31 744 750.00
										131 308 719 625.50
Future										
Dec 2018	EUUS	Future	40	1.1577	1.1633	0.0000	0.0000	0	0.00	
			<u>40</u>					<u>0.00</u>	<u>0.00</u>	<u>744 445.00</u>
		Total	40					0.00	0.00	8 445 126 755.00
										744 445.00
Future										
Dec 2018	GBUS	Future	30	1.3160	1.3247	0.0000	0.0000	0	0.00	
			<u>30</u>					<u>0.00</u>	<u>0.00</u>	<u>169 421.00</u>
		Total	30					0.00	0.00	2 180 058 224.00
										169 421.00
Future										
Dec 2018	ZAAD	Future	32,156	10.1846	10.2234	0.0000	0.0000	4,440	45,448,284.00	
Mar 2019	ZAAD	Future	420	10.3212	10.3602	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	4,929	10.4523	10.4928	0.0000	0.0000	0	0.00	
			<u>37,505</u>					<u>4,440.00</u>	<u>45,448,284.00</u>	<u>3 743 711.00</u>
		Total	37,505					4,440.00	45,448,284.00	32 631 093 052.80
										3 776 088.00
Future										
Dec 2018	ZACA	Future	600	11.0106	11.0741	0.0000	0.0000	0	0.00	
			<u>600</u>					<u>0.00</u>	<u>0.00</u>	<u>137 653.00</u>
		Total	600					0.00	0.00	1 355 055 071.60
										137 653.00
Future										
Dec 2018	ZADK	Future	240	2.2421	2.2532	0.0000	0.0000	0	0.00	
			<u>240</u>					<u>0.00</u>	<u>0.00</u>	<u>12 335.00</u>
		Total	240					0.00	0.00	265 809 909.00
										12 335.00
Future										
Dec 2018	ZAEU	Future	107,242	16.5584	16.6458	16.7139	16.6200	905	15,095,613.90	
Mar 2019	ZAEU	Future	36,311	16.9068	16.9959	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	Future	4,906	17.2318	17.3230	17.3845	17.3845	5	86,922.50	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME		
	Sep 2019	ZAEU	Future	6,834	17.5890	17.6826	0.0000	0.0000	0	0.00		
				<u>155,293</u>					<u>910.00</u>	<u>15,182,536.40</u>	<u>15 583 692.00</u>	<u>224 065 918 779.40</u>
Option												
	Mar 2019	ZAEU	15.60 Put	462	190.3520	173.8498	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	16.00 Call	650	1213.1667	1279.6365	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	17.33 Put	462	1009.4808	957.9358	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	19.65 Call	462	173.3327	185.1809	0.0000	0.0000	0	0.00		
				<u>2,036</u>					<u>0.00</u>	<u>0.00</u>	<u>10 794 564.00</u>	<u>0.00</u>
			Total	157,329					910.00	15,182,536.40	26 378 256.00	224 065 918 779.40
Future												
	Dec 2018	ZAFR	Future	1,748	14.4756	14.5297	0.0000	0.0000	0	0.00		
	Jun 2019	ZAFR	Future	150	15.0951	15.1529	0.0000	0.0000	0	0.00		
				<u>1,898</u>					<u>0.00</u>	<u>0.00</u>	<u>620 576.00</u>	<u>6 667 908 161.60</u>
			Total	1,898					0.00	0.00	620 576.00	6 667 908 161.60
Future												
	Dec 2018	ZAGB	Future	440,397	18.8228	18.9552	18.9600	18.8700	4,490	84,957,013.50		
	Mar 2019	ZAGB	Future	8,144	19.1485	19.2813	19.1953	19.1953	1,500	28,784,850.00		
	Jun 2019	ZAGB	Future	5,506	19.4482	19.5842	19.4888	19.4888	500	9,744,400.00		
	Sep 2019	ZAGB	Future	10,363	19.7740	19.9105	0.0000	0.0000	0	0.00		
				<u>464,410</u>					<u>6,490.00</u>	<u>123,486,263.50</u>	<u>12 831 509.00</u>	<u>218 327 839 893.90</u>
Option												
	Dec 2018	ZAGB	19.30 Call	200	340.8007	401.1510	0.0000	0.0000	0	0.00		
	Dec 2018	ZAGB	21.00 Call	400	62.7750	79.5861	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	18.00 Put	500	358.6235	335.9059	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.19 Put	1,000	868.4624	0.0000	0.0000	0.0000	1,000	0.00		
	Mar 2019	ZAGB	20.00 Call	500	535.6032	594.9873	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.18 Call	1,500	485.6353	0.0000	0.0000	0.0000	1,500	0.00		
	Mar 2019	ZAGB	21.44 Call	500	245.1084	276.9962	0.0000	0.0000	0	0.00		
				<u>4,600</u>					<u>2,500.00</u>	<u>0.00</u>	<u>1 778 713.00</u>	<u>0.00</u>
			Total	469,010					8,990.00	123,486,263.50	14 610 222.00	218 327 839 893.90
Future												
	Dec 2018	ZAJY	Future	6,905	0.1281	0.1281	0.0000	0.0000	0	0.00		
				<u>6,905</u>					<u>0.00</u>	<u>0.00</u>	<u>1 021 902.00</u>	<u>11 470 576 312.50</u>
			Total	6,905					0.00	0.00	1 021 902.00	11 470 576 312.50
Future												
	Jun 2019	ZAKS	Future	2,166	0.1386	0.1403	0.0000	0.0000	0	0.00		
				<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>	<u>515 662 000.00</u>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Total			2,166					0.00	0.00	38 066.00	515 662 000.00
Future											
	Dec 2018	ZATR	Future	12,000	2.4602	2.4025	0.0000	0.0000	0	0.00	
				<u>12,000</u>					<u>0.00</u>	<u>0.00</u>	<u>383 239.00</u>
			Total	12,000					0.00	0.00	383 239.00
Future											
	Dec 2018	ZAUM	Future	329	14.3029	14.3090	0.0000	0.0000	12	17,202,000.00	
	Mar 2019	ZAUM	Future	10	14.4756	14.4819	0.0000	0.0000	0	0.00	
				<u>339</u>					<u>12.00</u>	<u>17,202,000.00</u>	<u>153 073.00</u>
			Total	339					12.00	17,202,000.00	157 596.00
Future											
	Dec 2018	ZAUS	Future	821,470	14.3029	14.3090	14.3889	14.3000	68,522	981,560,765.50	
	Mar 2019	ZAUS	Future	54,337	14.4756	14.4819	14.5400	14.5000	660	9,580,330.00	
	Jun 2019	ZAUS	Future	19,100	14.6353	14.6426	14.7150	14.7150	5	73,575.00	
	Sep 2019	ZAUS	Future	19,899	14.8060	14.8129	0.0000	0.0000	743	11,032,807.00	
	Mar 2020	ZAUS	Future	3,966	15.1673	15.1763	0.0000	0.0000	0	0.00	
				<u>918,772</u>					<u>69,930.00</u>	<u>1,002,247,477.50</u>	<u>187 991 730.00</u>
Option											
	Dec 2018	ZAUS	11.64 Put	2,764	3.0392	3.3548	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	11.75 Put	228,616	3.5419	3.9184	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	11.90 Put	11,300	4.3739	4.8516	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.00 Put	174,530	5.0423	5.6015	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.02 Put	5,500	5.1888	5.7656	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.10 Put	8,580	5.8209	6.4751	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.20 Put	7,300	6.7296	7.4944	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.25 Put	3,300	7.2402	8.0665	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.38 Put	39,589	8.7735	9.7839	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.50 Call	228,616	1813.4034	1820.7180	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.50 Put	26,400	10.5034	11.7180	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.63 Put	39,589	12.8042	14.2850	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.68 Put	10,000	13.8303	15.4275	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.75 Put	1,000	15.4198	17.1946	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.95 Put	500	24.7551	27.2677	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	13.00 Call	6,000	1331.6845	1340.5375	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	13.00 Put	177,520	28.7845	31.5375	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	13.05 Put	1,500	33.3140	36.3151	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	13.10 Put	11,300	38.3832	41.6387	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	13.20 Call	7,100	1153.1987	1163.0746	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	13.22 Put	5,500	52.9877	56.8687	0.0000	0.0000	0	0.00	

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Dec 2018	ZAUS	13.25 Call	10,000	1110.1231	1120.2613	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	57.2231	61.2613	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	68.0923	72.4957	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	69.7618	74.2163	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	945.1334	956.2871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	92.2334	97.2871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	905.8888	917.2800	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	102.9888	108.2800	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	127.1355	132.8626	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	150.3896	156.4474	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	156.6065	162.7388	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	172.8665	179.1704	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	186.6151	193.0442	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	693.0559	705.6148	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	190.1559	196.6148	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	227.8564	234.5564	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	601.1727	614.0619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	572.6314	585.5847	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	269.7314	276.5847	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	315.7519	322.6668	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	325.4499	332.3631	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	503.2587	516.2719	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	340.2974	347.2058	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	345.3271	352.2329	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	468.7459	481.7279	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	365.8459	372.7279	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	386.9984	393.8450	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	445.2845	458.2208	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	419.8950	426.6627	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	410.2384	423.0443	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	437.3384	444.0443	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	402.0560	414.8152	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	449.1560	455.8152	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	473.2356	479.7926	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	382.2457	394.8754	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	367.0493	379.5655	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	345.3030	357.6291	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	542.4030	548.6291	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	548.8997	555.0894	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	311.7379	323.7017	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,500	608.8379	614.7017	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	308.5595	320.4841	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.62 Call	5,500	305.4100	317.2950	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	0	290.1264	301.8095	0.0000	0.0000	5,000	0.00
Dec 2018	ZAUS	14.67 Put	3,000	657.2264	662.8095	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	281.3148	292.8730	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	707.0733	712.3570	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	267.2098	278.5471	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	714.3098	719.5471	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	253.7998	264.9130	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	750.8998	755.9130	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	243.5530	254.4828	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	241.0580	251.9409	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	826.0561	830.6034	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	206.5611	216.7239	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	903.6611	907.7239	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	204.4022	214.5248	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	187.8966	197.6922	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	185.9291	195.6851	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	176.4003	185.9474	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1064.4671	1067.7033	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1105.9026	1108.9284	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1147.7861	1150.5988	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	140.0353	148.6513	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	127.4764	135.7123	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	124.8496	132.9995	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	122.2779	130.3453	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1319.3779	1321.3453	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	121.0129	129.0384	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	111.3788	119.0733	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	110.2338	117.8857	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	109.0999	116.7122	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	99.4377	106.6867	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	96.4237	103.5532	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1622.6578	1623.2846	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	84.6221	91.3128	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	79.2195	85.6979	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,050	71.7678	77.9324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	63.6252	69.4189	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	61.5752	67.2689	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	57.6759	63.1749	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	55.2197	60.5910	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.50 Call	1,000	41.6986	46.2913	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	39.1048	43.5302	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	16.80 Call	13,150	30.3209	34.1284	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	24.6131	27.9650	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	3.0966	3.2740	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	13.6263	14.1895	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	50.6835	52.6671	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	54.0562	56.1553	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	97.5651	100.9983	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	100.3858	103.8966	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	112.3166	116.1457	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	120.3197	124.3535	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	134.5210	138.7419	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	140.9516	145.2495	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	163.9269	168.4663	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	184.0548	188.7707	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	192.0125	196.7905	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	220.1877	225.1555	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	232.1786	237.2146	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	247.7545	252.8665	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	263.9874	269.1673	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	291.3369	296.6087	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	298.4391	303.7329	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	305.6515	310.9595	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	316.6677	322.0040	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	331.7326	337.0953	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	360.8192	366.2027	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	378.2207	383.6019	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	423.7020	429.0554	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	442.6729	448.0097	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	522.9373	528.1307	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	565.6203	570.7143	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	752.1511	763.5172	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	604.3243	609.3138	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	655.8872	660.7270	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	661.7393	666.5592	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	675.0403	686.1025	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	666.9604	677.9842	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	691.3604	696.0842	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	709.5185	714.1741	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	727.8871	732.4686	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	784.2255	788.5850	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	842.3614	846.4804	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	888.7711	892.6986	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	14.82 Put	4,145	895.4845	899.3852	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	902.2183	906.0883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	908.9723	912.8153	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	507.1631	516.9537	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	498.2451	507.9427	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	1048.1532	1051.3992	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1091.3568	1094.4200	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1105.9005	1108.9012	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1113.1984	1116.1695	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	448.1578	457.3067	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1157.3407	1160.1265	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1164.7572	1167.5096	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1255.0463	1257.4877	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	380.9833	389.4310	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	378.8061	387.2269	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	370.2279	378.5577	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	366.0201	374.3061	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	361.8701	370.1089	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	338.0627	346.0274	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	310.8151	318.4360	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	307.3780	314.9553	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	297.3384	304.7758	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	279.3068	286.4900	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	258.7539	265.6251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	234.3481	240.8239	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	223.7596	230.0526	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	199.5611	205.4138	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	197.3077	203.1198	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	161.3570	166.4340	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	160.4717	165.5317	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	156.1317	161.0962	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	151.1032	155.9550	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	150.2855	155.1188	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	149.4708	154.2856	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	139.3433	143.9256	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	134.2287	138.6890	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	122.3688	126.5767	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	101.7942	105.6265	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	89.2379	92.8146	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.1305	8.5193	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	53.5274	54.9681	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	122.3127	124.9690	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	12.98 Put	911	171.7039	175.0352	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	176.5350	179.9275	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	240.8051	244.8420	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	444.0662	448.3341	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	464.8047	469.0556	0.0000	0.0000	2,430	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1165.7047	1177.2061	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	955.5334	966.5767	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	889.1492	899.9437	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	864.1277	867.5410	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	797.9672	808.2752	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	578.2013	586.7510	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	561.2046	569.5937	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	520.1965	528.1665	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	494.8910	502.5813	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	478.8627	486.3727	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	224.5685	229.4359	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	14.4283	14.9555	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	102.4056	105.1913	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	556.4951	560.5085	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	582.8099	586.7700	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	638.7587	642.6278	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	663.9532	667.8026	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	700.0343	703.8536	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	764.0442	767.7904	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	989.8561	993.2591	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1420.5983	1422.8452	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.55 Call	30,000	796.9550	805.7647	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1548.1696	1550.0633	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	713.5498	721.7570	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	454.5877	461.0286	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	400.3362	406.3798	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	378.3170	384.1599	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	371.4169	377.1896	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	343.1818	348.6414	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	330.6244	335.9379	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	33,715	320.2359	325.4311	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.67 Call	141,127	317.7503	322.9111	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	19.32 Call	33,151	278.1336	282.8198	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	55.7177	56.6183	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	514.8854	517.6320	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	17.38 Call	1,000	605.4728	611.4276	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	20.00 Call	2,000	342.9863	347.2588	0.0000	0.0000	0	0.00

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		8,248,543					7,430.00	0.00
								60 719 052.00
	Total	9,167,315					77,360.00	1,002,247,477.50
								248 710 782.00
								2 252 354 828 964.30
Grand Total		10,932,419					218,953.00	1 206 912 726.40
								339,389,513
								3,123,152,903,243.42