



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 18-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Nov 2018	DAEU	Future	37	16.6011	16.5106	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	776.9958	828.6836	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	539.1454	528.1789	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	18.8662	18.7271	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	70	14.3403	14.2114	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.3476	14.2188	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.3494	14.2206	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	3,858	14.3512	14.2224	0.0000	0.0000	344	4,902,000.00		
Nov 2018	DAUS	Future	55	14.3531	14.2242	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.3751	14.2461	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.3788	14.2497	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.3806	14.2515	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.3917	14.2625	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	166	14.4027	14.2735	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.4045	14.2754	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	6,324	14.4064	14.2772	0.0000	0.0000	2,500	35,878,450.00		
Dec 2018	DAUS	Future	500	14.4193	14.2900	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.4285	14.2992	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,714	14.4637	14.3341	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.4674	14.3378	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	Future	55	14.5193	14.3892	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,020	14.5211	14.3910	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.5449	14.4149	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,787	14.5723	14.4425	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.6217	14.4922	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.6254	14.4958	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.6327	14.5032	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.6837	14.5544	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.7394	14.6101	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.7951	14.6659	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.8514	14.7220	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.9109	14.7804	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.9667	14.8353	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0218	14.8902	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.0853	14.9549	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1468	15.0176	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2044	15.0763	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.2659	15.1390	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3275	15.2017	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3811	15.2563	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.4486	15.3251	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.5598	15.4384	0.0000	0.0000	0	0.00		
			<u>122,923</u>					<u>2,844.00</u>	<u>40,780,450.00</u>	<u>10 728 178.00</u>	<u>131 349 500 075.50</u>

Option

Oct 2018	DAUS	14.50 Put	20,000	177.7323	316.1972	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	0.2947	0.6436	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	363.6617	257.3589	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	2.8447	2.8916	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	25.1080	49.0744	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	468.5150	375.9567	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	56.3471	96.7504	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	153.8223	225.1862	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.34 Put	171	198.5720	279.7428	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.44 Call	171	167.5754	129.2097	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	163.7714	126.2600	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	96.7339	74.8723	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	535.0583	649.3965	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	53.8853	42.4433	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	40.3814	31.7451	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	1.2668	1.1805	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	0.5285	0.5121	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.00 Put	20,000	75.2490	123.5824	0.0000	0.0000	0	0.00

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Nov 2018	DAUS	11.90 Put	1,880	0.1404	0.1785	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	52.7646	89.3600	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	1.2961	1.2743	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	276.7350	360.2884	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	247.9069	213.9700	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0401	0.0449	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.1888	0.2745	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1176.1991	1052.7913	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.32 Call	15,000	332.1475	284.0149	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	183.1365	159.6778	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	177.6391	155.0618	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.78 Call	30,000	167.1026	146.2154	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	141.0802	124.3520	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	650.4802	762.8520	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	10.5122	15.3365	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	117.2289	156.7799	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	131.4888	174.2306	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	538.0313	466.7553	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	286.5951	355.7090	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	417.5743	360.6878	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	229.2519	199.8410	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	223.7292	195.1201	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	18.7847	16.5122	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	8.0699	7.3823	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	1151.5855	1267.0016	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	162.3837	207.9712	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	329.0024	399.2777	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	710.4711	811.3268	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1026.3146	1138.1908	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	103.1717	134.0041	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	160.4514	203.9366	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	203.9889	178.7782	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	104.5827	92.3772	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	195.4001	240.0812	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	366.7122	432.5019	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	740.5250	835.1793	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1047.6305	1153.7822	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	45.0955	58.7064	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	57.7358	74.3467	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	363.3609	319.0761	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	333.0068	292.4328	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	32.8083	43.0054	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	13.80 Put	1,000	179.4116	219.8862	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	590.5048	523.2803	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	361.2619	425.1899	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	798.9863	894.7458	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	50.9644	45.7079	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	27.3636	21.6661	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	30.1834	35.0612	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	58.9635	71.1087	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	393.8239	455.8673	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	418.0494	482.3571	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	625.7562	565.7449	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	358.6030	325.7599	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	279.4999	254.4126	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	82.7694	95.6642	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	438.8405	499.3437	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	463.2396	525.8473	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	659.1730	603.3578	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	406.6575	374.0119	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	324.5513	299.2501	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	50,000	384.1157	435.5565	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	107.2866	121.9697	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	478.0817	537.9241	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	502.6705	564.3721	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	689.2358	636.5621	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	446.8126	414.8335	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	366.8892	341.5518	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	128.2825	146.6199	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1436.2047	1339.0345	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	514.6238	573.8718	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	539.3164	600.2337	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	717.3732	667.3729	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	485.2270	453.9057	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	409.4644	384.2045	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	146.0268	167.7927	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	547.7085	606.8140	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	572.5605	633.2081	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	743.6629	695.8094	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	520.7625	489.8281	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	445.3165	418.8474	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	851.2546	924.4613	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	315.8035	298.3556	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	160.3251	185.2912	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	14.20 Put	250	574.6107	633.2308	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	599.5480	659.6306	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	763.9580	718.0642	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	548.5203	518.2069	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	475.1231	447.5382	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	287.5568	319.8520	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	462.5432	435.6373	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	174.2550	201.5278	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	603.0608	660.3160	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	628.0535	686.6783	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	793.1375	747.5488	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	583.8813	552.7722	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	510.8870	482.2739	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	759.7247	823.6647	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	568.3867	537.8736	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	186.8821	216.3026	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	626.4110	683.2573	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	651.4216	709.5470	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	811.8087	767.2777	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	609.2907	577.8560	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	535.5315	507.5986	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	293.5414	283.4477	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	200.9145	231.0626	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	647.5816	704.1990	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	672.5582	730.4001	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	836.5537	793.1220	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	638.0933	605.8421	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	561.9980	533.8646	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	216.2145	245.9283	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	671.5666	726.9201	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	694.9069	753.0874	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	857.8387	816.0623	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	663.7453	632.1923	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	590.4815	562.6094	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	232.8221	262.8228	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	695.0550	748.5421	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	718.8018	774.6616	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	886.8589	846.5061	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	695.3083	664.3113	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	623.5227	596.1767	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	248.0211	280.5847	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	716.5559	770.3594	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	14.25 Put	250	740.4772	795.4607	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	915.7780	876.9200	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	728.8261	698.8557	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	658.6035	632.1915	0.0000	0.0000	0	0.00	
			<u>857,969</u>					<u>0.00</u>	<u>0.00</u>	<u>21 019 416.00</u>
		Total	980,892					2,844.00	40,780,450.00	31 747 594.00
										131 349 500 075.50
Future										
Dec 2018	EUUS	Future	40	1.1536	1.1577	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	744 445.00
										8 445 126 755.00
Future										
Dec 2018	GBUS	Future	30	1.3104	1.3160	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	169 421.00
										2 180 058 224.00
Future										
Dec 2018	ZAAD	Future	32,156	10.2939	10.1846	0.0000	0.0000	0	0.00	
Mar 2019	ZAAD	Future	420	10.4316	10.3212	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	4,929	10.5638	10.4523	0.0000	0.0000	0	0.00	
			<u>37,505</u>					<u>0.00</u>	<u>0.00</u>	<u>3 743 711.00</u>
		Total	37,505					0.00	0.00	3 776 088.00
										32 631 093 052.80
Future										
Dec 2018	ZACA	Future	600	11.0873	11.0106	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	137 653.00
										1 355 055 071.60
Future										
Dec 2018	ZADK	Future	240	2.2556	2.2421	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	12 335.00
										265 809 909.00
Future										
Dec 2018	ZAEU	Future	106,692	16.6492	16.5584	16.6200	16.5481	1,180	19,550,496.70	
Mar 2019	ZAEU	Future	36,311	16.9991	16.9068	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	Future	4,906	17.3263	17.2318	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	Future	6,834	17.6884	17.5890	0.0000	0.0000	0	0.00	
			<u>154,743</u>					<u>1,180.00</u>	<u>19,550,496.70</u>	<u>15 584 872.00</u>
										224 085 469 276.10
Option										

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Dec 2018	ZAEU	21.00 Call	0	7.2599	0.0000	0.0000	0.0000	400	0.00	
Mar 2019	ZAEU	15.60 Put	462	169.5607	190.3520	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	16.00 Call	650	1275.5648	1213.1667	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	17.33 Put	462	941.8118	1009.4808	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	19.65 Call	462	176.7288	173.3327	0.0000	0.0000	0	0.00	
			2,036					400.00	0.00	10 794 964.00
		Total	156,779					1,580.00	19,550,496.70	26 379 836.00 224 085 469 276.10
Future										
Dec 2018	ZAFR	Future	1,748	14.5655	14.4756	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	15.1897	15.0951	0.0000	0.0000	0	0.00	
			1,898					0.00	0.00	620 576.00 6 667 908 161.60
		Total	1,898					0.00	0.00	620 576.00 6 667 908 161.60
Future										
Dec 2018	ZAGB	Future	440,397	18.9119	18.8228	18.8900	18.8400	5	94,350.00	
Mar 2019	ZAGB	Future	8,144	19.2391	19.1485	0.0000	0.0000	0	0.00	
Jun 2019	ZAGB	Future	5,506	19.5401	19.4482	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	10,363	19.8713	19.7740	0.0000	0.0000	0	0.00	
			464,410					5.00	94,350.00	12 831 514.00 218 327 934 243.90
Option										
Dec 2018	ZAGB	19.30 Call	200	364.6294	340.8007	0.0000	0.0000	0	0.00	
Dec 2018	ZAGB	21.00 Call	0	65.4508	62.7750	0.0000	0.0000	400	0.00	
Mar 2019	ZAGB	18.00 Put	500	341.5328	358.6235	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	823.1177	868.4624	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	563.4727	535.6032	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	509.7655	485.6353	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	256.2443	245.1084	0.0000	0.0000	0	0.00	
			4,200					400.00	0.00	1 779 113.00 0.00
		Total	468,610					405.00	94,350.00	14 610 627.00 218 327 934 243.90
Future										
Dec 2018	ZAJY	Future	6,905	0.1288	0.1281	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	0.1404	0.1386	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

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Dec 2018	ZATR	Future	10,000	2.4917	2.4602	0.0000	0.0000	2,000	4,971,400.00
			<u>10,000</u>					<u>2,000.00</u>	<u>4,971,400.00</u>
		Total	10,000					2,000.00	4,971,400.00
									385 239.00
									1 233 437 569.00
Future									
Dec 2018	ZAUM	Future	326	14.4322	14.3029	0.0000	0.0000	12	17,190,000.00
Mar 2019	ZAUM	Future	10	14.6053	14.4756	0.0000	0.0000	0	0.00
			<u>336</u>					<u>12.00</u>	<u>17,190,000.00</u>
		Total	336					12.00	17,190,000.00
									153 085.00
									176 950 070 860.00
Future									
Dec 2018	ZAUS	Future	811,821	14.4322	14.3029	14.4513	14.2855	41,702	598,929,679.80
Mar 2019	ZAUS	Future	54,915	14.6053	14.4756	14.6200	14.4650	1,622	23,595,812.40
Jun 2019	ZAUS	Future	19,445	14.7646	14.6353	14.6988	14.5886	950	13,927,862.50
Sep 2019	ZAUS	Future	19,899	14.9370	14.8060	0.0000	0.0000	50	739,935.00
Mar 2020	ZAUS	Future	3,966	15.2937	15.1673	0.0000	0.0000	0	0.00
			<u>910,046</u>					<u>44,324.00</u>	<u>637,193,289.70</u>
									188 036 054.00
									2 252 992 022 254.00
Option									
Dec 2018	ZAUS	11.64 Put	2,764	2.8386	3.0392	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	3.3039	3.5419	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	4.0708	4.3739	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	4.6847	5.0423	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	4.8187	5.1888	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	5.3972	5.8209	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	6.2258	6.7296	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	6.6899	7.2402	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	8.0782	8.7735	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1941.8357	1813.4034	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	9.6357	10.5034	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	11.6941	12.8042	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	12.6077	13.8303	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	14.0183	15.4198	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	19.0753	24.7551	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1452.8272	1331.6845	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	20.6272	28.7845	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	24.0380	33.3140	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	27.9135	38.3832	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1269.3400	1153.1987	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	39.2423	52.9877	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1224.7683	1110.1231	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	42.5683	57.2231	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.32 Put	13,650	51.1726	68.0923	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	52.5035	69.7618	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1052.7916	945.1334	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	70.5916	92.2334	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1011.5613	905.8888	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	79.3613	102.9888	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	99.2574	127.1355	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	117.5795	150.3896	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	122.5094	156.6065	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	135.4632	172.8665	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	147.0794	186.6151	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	782.2850	693.0559	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	150.0850	190.1559	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	182.3490	227.8564	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	682.2067	601.1727	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	650.8898	572.6314	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	218.6898	269.7314	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	259.1544	315.7519	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	267.7431	325.4499	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	574.2969	503.2587	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	280.9321	340.2974	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	285.4112	345.3271	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	535.9340	468.7459	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	303.7340	365.8459	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	322.7071	386.9984	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	509.7520	445.2845	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	352.3734	419.8950	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	469.9464	410.2384	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	367.7464	437.3384	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	460.3898	402.0560	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	378.1898	449.1560	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	399.5474	473.2356	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	437.1841	382.2457	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	419.3103	367.0493	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	394.4569	345.3030	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	462.2569	542.4030	0.0000	0.0000	2,000	0.00
Dec 2018	ZAUS	14.51 Put	3,388	468.2726	548.8997	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	356.2226	311.7379	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,500	524.0226	608.8379	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	352.5932	308.5595	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	348.9958	305.4100	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	569.3237	657.2264	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.70 Call	70,000	321.4359	281.3148	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	616.2336	707.0733	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	305.2628	267.2098	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	623.0628	714.3098	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	289.8654	253.7998	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	657.6654	750.8998	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	278.0877	243.5530	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	275.2146	241.0580	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	729.0836	826.0561	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	235.4558	206.5611	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	803.2558	903.6611	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	233.0167	204.4022	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	214.3825	187.8966	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	212.1613	185.9291	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	201.3922	176.4003	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	958.8060	1064.4671	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	998.9523	1105.9026	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1039.6104	1147.7861	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	159.5428	140.0353	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	145.0678	127.4764	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	142.0383	124.8496	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	139.0739	122.2779	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1206.8739	1319.3779	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	137.6165	121.0129	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	126.5055	111.3788	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	125.1844	110.2338	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	123.8761	109.0999	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	112.7322	99.4377	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	109.2547	96.4237	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1505.2454	1622.6578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	96.4418	84.6221	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	90.5717	79.2195	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,050	81.9964	71.7678	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	72.6263	63.6252	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	70.2667	61.5752	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	65.7786	57.6759	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	62.9516	55.2197	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.50 Call	0	47.3947	41.6986	0.0000	0.0000	1,000	0.00
Dec 2018	ZAUS	16.56 Call	13,650	44.4120	39.1048	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	34.3199	30.3209	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	27.7736	24.6131	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	3.6128	3.0966	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	11.74 Put	1,000	11.8201	13.6263	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	43.8010	50.6835	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	46.7256	54.0562	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	84.6262	97.5651	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	87.0943	100.3858	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	97.5521	112.3166	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	104.5795	120.3197	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	115.0882	134.5210	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	119.8381	140.9516	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	139.9442	163.9269	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	157.6593	184.0548	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	164.6850	192.0125	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	189.6513	220.1877	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	200.3167	232.1786	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	214.2095	247.7545	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	228.7257	263.9874	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	253.2725	291.3369	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	259.6649	298.4391	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	266.1636	305.6515	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	276.1030	316.6677	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	289.7175	331.7326	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	314.8176	360.8192	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	330.6167	378.2207	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	372.0811	423.7020	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	389.4461	442.6729	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	463.3032	522.9373	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	502.8278	565.6203	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	818.2729	752.1511	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	538.7916	604.3243	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	586.8938	655.8872	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	592.3672	661.7393	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	734.2337	675.0403	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	725.4013	666.9604	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	620.1013	691.3604	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	637.0358	709.5185	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	654.1935	727.8871	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	707.2637	784.2255	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	762.4717	842.3614	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	806.6711	888.7711	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	813.0739	895.4845	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	819.4984	902.2183	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	825.9444	908.9723	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	14.96 Call	0	550.2453	507.1631	0.0000	0.0000	17,981	0.00
Mar 2019	ZAUS	14.99 Call	100	540.4588	498.2451	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	959.2461	1048.1532	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1000.7925	1091.3568	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1014.7933	1105.9005	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1021.8182	1113.1984	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	485.4169	448.1578	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1064.3757	1157.3407	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1071.5321	1164.7572	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1158.7765	1255.0463	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	411.6673	380.9833	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	409.2952	378.8061	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	399.9519	370.2279	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	395.3701	366.0201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	390.8473	361.8701	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	364.9089	338.0627	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	335.2053	310.8151	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	331.4599	307.3780	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	320.5122	297.3384	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	301.5225	279.3068	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	279.7610	258.7539	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	253.1464	234.3481	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	241.5979	223.7596	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	215.2014	199.5611	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	212.7428	197.3077	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	173.5292	161.3570	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	172.5648	160.4717	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	167.8326	156.1317	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	162.3488	151.1032	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	161.4559	150.2855	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	160.5688	149.4708	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	149.5307	139.3433	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	143.9571	134.2287	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	129.3382	122.3688	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	107.3391	101.7942	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	93.9577	89.2379	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.1703	8.1305	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	45.3398	53.5274	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	105.7102	122.3127	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	149.8114	171.7039	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	154.1502	176.5350	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	212.8743	240.8051	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>		
Jun 2019	ZAUS	13.83 Put	25,000	400.3992	444.0662	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.88 Put	5,035	419.6258	464.8047	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.98 Call	1,000	1244.3018	1165.7047	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.42 Call	30	1020.1467	955.5334	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	949.1571	889.1492	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.63 Put	8,203	793.4297	864.1277	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	851.8610	797.9672	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.55 Call	25,000	614.9742	578.2013	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	596.6541	561.2046	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	552.4189	520.1965	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	525.0997	494.8910	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	507.7903	478.8627	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	234.8946	224.5685	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	14.6473	14.4283	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	84.8137	102.4056	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	511.8163	556.4951	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	536.5929	582.8099	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	588.1401	638.7587	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	610.4041	663.9532	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	642.7005	700.0343	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	703.6753	764.0442	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	920.0681	989.8561	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1338.1654	1420.5983	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.55 Call	30,000	842.2409	796.9550	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1462.2438	1548.1696	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	752.8813	713.5498	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	478.5781	454.5877	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	420.8035	400.3362	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	394.7758	378.3170	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	385.4313	371.4169	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	354.6735	343.1818	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	341.2129	330.6244	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	330.0850	320.2359	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	327.4186	317.7503	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	289.7692	278.1336	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	51.3170	55.7177	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	474.9440	514.8854	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	632.5579	605.4728	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	365.2932	342.9863	0.0000	0.0000	0	0.00		
			<u>8,229,562</u>					<u>20,981.00</u>	<u>0.00</u>	<u>60 740 033.00</u>	<u>0.00</u>
	Total		9,139,608					65,305.00	637,193,289.70	248 776 087.00	2 252 992 022 254.00

<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>
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Grand Total		10,899,259					72,146.00	719 779 986.40	339,461,659	3,123,872,683,229.82
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