



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 19-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
<b>Future</b>									
Nov 2018	DAEU	Future	37	16.6769	16.6011	0.0000	0.0000	0	0.00
			37					0.00	0.00
									801 399.00
									11 967 156 360.40
<b>Option</b>									
Aug 2019	DAEU	17.01 Put	31,200	737.8658	776.9958	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	554.6339	539.1454	0.0000	0.0000	0	0.00
			93,600					0.00	0.00
		<b>Total</b>	<b>93,637</b>					<b>0.00</b>	<b>0.00</b>
									2 191 986.00
									11 967 156 360.40
<b>Future</b>									
Nov 2018	DAGB	Future	13	18.9180	18.8662	0.0000	0.0000	0	0.00
			13					0.00	0.00
		<b>Total</b>	<b>13</b>					<b>0.00</b>	<b>0.00</b>
									53 954.00
									889 067 608.60
<b>Future</b>									
Oct 2018	DAUS	Future	0	14.3433	14.3400	0.0000	0.0000	20,000	286,866,000.00
Oct 2018	DAUS	Future	70	14.4161	14.3403	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	225	14.4235	14.3476	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	2,500	14.4253	14.3494	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	3,858	14.4271	14.3512	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	55	14.4290	14.3531	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	70	14.4512	14.3751	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	24	14.4549	14.3788	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	308	14.4567	14.3806	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	179	14.4678	14.3917	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	166	14.4790	14.4027	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	461	14.4808	14.4045	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	6,324	14.4827	14.4064	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	500	14.4957	14.4193	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,672	14.5050	14.4285	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,714	14.5403	14.4637	0.0000	0.0000	0	0.00

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Jan 2019	DAUS	Future	55	14.5440	14.4674	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.5960	14.5193	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,020	14.5978	14.5211	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.6216	14.5449	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,787	14.6491	14.5723	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.6986	14.6217	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.7022	14.6254	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.7096	14.6327	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.7607	14.6837	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.8169	14.7394	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.8730	14.7951	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.9296	14.8514	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.9891	14.9109	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0449	14.9667	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.1000	15.0218	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.1643	15.0853	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2267	15.1468	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2850	15.2044	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.3474	15.2659	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4097	15.3275	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4640	15.3811	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.5324	15.4486	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.6450	15.5598	0.0000	0.0000	0	0.00		
			<u>122,923</u>					<u>20,000.00</u>	<u>286,866,000.00</u>	<u>10 748 178.00</u>	<u>131 636 366 075.50</u>

**Option**

Oct 2018	DAUS	13.20 Put	1,630	0.0519	0.2947	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	415.9103	363.6617	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	1.7543	2.8447	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	15.3471	25.1080	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	527.4768	468.5150	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	36.7562	56.3471	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	112.0514	153.8223	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.34 Put	171	149.4243	198.5720	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.44 Call	171	186.0587	167.5754	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	181.4701	163.7714	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	104.6854	96.7339	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	463.0708	535.0583	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	56.3295	53.8853	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	41.4075	40.3814	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	0.9699	1.2668	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	0.3546	0.5285	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.00 Put	20,000	46.7277	75.2490	0.0000	0.0000	0	0.00

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Nov 2018	DAUS	11.90 Put	1,880	0.0969	0.1404	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	31.2854	52.7646	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	1.1710	1.2961	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	227.7703	276.7350	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	267.1824	247.9069	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0393	0.0401	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.1479	0.1888	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1249.1482	1176.1991	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.32 Call	15,000	360.3102	332.1475	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	195.7197	183.1365	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	189.7026	177.6391	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.78 Call	30,000	178.1752	167.1026	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	149.7570	141.0802	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	583.0570	650.4802	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	8.6565	10.5122	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	92.1553	117.2289	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	104.4544	131.4888	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	578.0586	538.0313	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	243.6312	286.5951	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	449.0166	417.5743	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	243.5635	229.2519	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	237.5977	223.7292	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	18.8027	18.7847	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	7.6685	8.0699	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	1081.2521	1151.5855	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	133.0304	162.3837	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	284.7893	329.0024	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	647.7797	710.4711	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	957.9031	1026.3146	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	82.7136	103.1717	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	132.9654	160.4514	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	215.3708	203.9889	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	109.3431	104.5827	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	166.1713	195.4001	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	323.5026	366.7122	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	680.3875	740.5250	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	981.1475	1047.6305	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	34.6739	45.0955	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	45.2791	57.7358	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	385.2802	363.3609	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	352.7915	333.0068	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	28.4269	32.8083	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	13.80 Put	1,000	152.6869	179.4116	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	627.0484	590.5048	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	320.2796	361.2619	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	738.8694	798.9863	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	52.3452	50.9644	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	28.0065	27.3636	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	25.8791	30.1834	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	51.8756	58.9635	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	353.8869	393.8239	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	376.7934	418.0494	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	657.8669	625.7562	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	374.7989	358.6030	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	291.3040	279.4999	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	73.3886	82.7694	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	398.6182	438.8405	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	421.9530	463.2396	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	689.2620	659.1730	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	424.0985	406.6575	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	337.9027	324.5513	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	50,000	347.8519	384.1157	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	94.5149	107.2866	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	438.6082	478.0817	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	462.2061	502.6705	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	717.8490	689.2358	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	464.8190	446.8126	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	381.4488	366.8892	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	114.4416	128.2825	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1488.5799	1436.2047	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	475.8193	514.6238	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	499.6177	539.3164	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	745.1900	717.3732	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	503.6542	485.2270	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	424.8241	409.4644	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	131.7341	146.0268	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	510.0438	547.7085	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	534.0402	572.5605	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	771.2084	743.6629	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	539.3581	520.7625	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	461.0135	445.3165	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	806.0777	851.2546	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	327.4588	315.8035	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	144.9498	160.3251	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	14.20 Put	250	536.7623	574.6107	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	560.9184	599.5480	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	791.2477	763.9580	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	567.4921	548.5203	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	491.4724	475.1231	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	264.6560	287.5568	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	479.1824	462.5432	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	157.8661	174.2550	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	566.3955	603.0608	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	590.6203	628.0535	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	820.2577	793.1375	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	603.0308	583.8813	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	528.4289	510.8870	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	719.3940	759.7247	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	586.5049	568.3867	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	167.1608	186.8821	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	592.4468	626.4110	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	614.9965	651.4216	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	838.3579	811.8087	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	628.2571	609.2907	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	552.8391	535.5315	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	299.5589	293.5414	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	180.3192	200.9145	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	616.1632	647.5816	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	638.6981	672.5582	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	863.1744	836.5537	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	657.4424	638.0933	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	579.2243	561.9980	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	196.2733	216.2145	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	640.1722	671.5666	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	662.8614	694.9069	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	882.5320	857.8387	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	682.5514	663.7453	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	606.8380	590.4815	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	210.5221	232.8221	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	661.9118	695.0550	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	684.8176	718.8018	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	910.9605	886.8589	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	713.2566	695.3083	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	639.2980	623.5227	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	227.9217	248.0211	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	682.9112	716.5559	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	14.25 Put	250	705.9975	740.4772	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	939.2227	915.7780	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	746.5461	728.8261	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	674.3352	658.6035	0.0000	0.0000	0	0.00	
			<u>837,969</u>					<u>0.00</u>	<u>0.00</u>	<u>21 019 416.00</u>
		<b>Total</b>	<b>960,892</b>					<b>20,000.00</b>	<b>286,866,000.00</b>	<b>31 767 594.00</b>
										<b>131 636 366 075.50</b>
<b>Future</b>										
Dec 2018	EUUS	Future	40	1.1528	1.1536	0.0000	0.0000	0	0.00	
			<u>40</u>					<u>0.00</u>	<u>0.00</u>	<u>744 445.00</u>
		<b>Total</b>	<b>40</b>					<b>0.00</b>	<b>0.00</b>	<b>744 445.00</b>
										<b>8 445 126 755.00</b>
<b>Future</b>										
Dec 2018	GBUS	Future	30	1.3071	1.3104	0.0000	0.0000	0	0.00	
			<u>30</u>					<u>0.00</u>	<u>0.00</u>	<u>169 421.00</u>
		<b>Total</b>	<b>30</b>					<b>0.00</b>	<b>0.00</b>	<b>169 421.00</b>
										<b>2 180 058 224.00</b>
<b>Future</b>										
Dec 2018	ZAAD	Future	32,156	10.3527	10.2939	0.0000	0.0000	0	0.00	
Mar 2019	ZAAD	Future	420	10.4900	10.4316	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	4,929	10.6221	10.5638	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>
		<b>Total</b>	<b>37,505</b>					<b>0.00</b>	<b>0.00</b>	<b>3 776 088.00</b>
										<b>32 631 093 052.80</b>
<b>Future</b>										
Dec 2018	ZACA	Future	600	11.0785	11.0873	0.0000	0.0000	0	0.00	
			<u>600</u>					<u>0.00</u>	<u>0.00</u>	<u>137 653.00</u>
		<b>Total</b>	<b>600</b>					<b>0.00</b>	<b>0.00</b>	<b>137 653.00</b>
										<b>1 355 055 071.60</b>
<b>Future</b>										
Dec 2018	ZADK	Future	240	2.2664	2.2556	0.0000	0.0000	0	0.00	
			<u>240</u>					<u>0.00</u>	<u>0.00</u>	<u>12 335.00</u>
		<b>Total</b>	<b>240</b>					<b>0.00</b>	<b>0.00</b>	<b>12 335.00</b>
										<b>265 809 909.00</b>
<b>Future</b>										
Dec 2018	ZAEU	Future	106,648	16.7253	16.6492	16.7500	16.6426	354	5,894,587.60	
Mar 2019	ZAEU	Future	36,311	17.0761	16.9991	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	Future	4,906	17.4037	17.3263	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	Future	6,834	17.7668	17.6884	0.0000	0.0000	0	0.00	
			<u>154,699</u>					<u>354.00</u>	<u>5,894,587.60</u>	<u>15 585 226.00</u>
										<b>224 091 363 863.70</b>
<b>Option</b>										

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Mar 2019	ZAEU	15.60 Put	462	150.0465	169.5607	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	16.00 Call	650	1325.9614	1275.5648	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	17.33 Put	462	888.1817	941.8118	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	19.65 Call	462	183.0832	176.7288	0.0000	0.0000	0	0.00	
			2,036					0.00	0.00	10 794 964.00
		<b>Total</b>	<b>156,735</b>					<b>354.00</b>	<b>5,894,587.60</b>	26 380 190.00 224 091 363 863.70
<b>Future</b>										
Dec 2018	ZAFR	Future	1,748	14.6254	14.5655	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	15.2512	15.1897	0.0000	0.0000	0	0.00	
			1,898					0.00	0.00	620 576.00 6 667 908 161.60
		<b>Total</b>	<b>1,898</b>					<b>0.00</b>	<b>0.00</b>	620 576.00 6 667 908 161.60
<b>Future</b>										
Dec 2018	ZAGB	Future	440,402	18.9637	18.9119	18.9499	18.9499	5	94,749.50	
Mar 2019	ZAGB	Future	8,144	19.2927	19.2391	0.0000	0.0000	0	0.00	
Jun 2019	ZAGB	Future	5,506	19.5934	19.5401	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	10,363	19.9237	19.8713	0.0000	0.0000	0	0.00	
			464,415					5.00	94,749.50	12 831 519.00 218 328 028 993.40
<b>Option</b>										
Dec 2018	ZAGB	19.30 Call	200	371.3140	364.6294	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	18.00 Put	500	317.3621	341.5328	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	785.9301	823.1177	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	571.8843	563.4727	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	516.9881	509.7655	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	257.3075	256.2443	0.0000	0.0000	0	0.00	
			4,200					0.00	0.00	1 779 113.00 0.00
		<b>Total</b>	<b>468,615</b>					<b>5.00</b>	<b>94,749.50</b>	14 610 632.00 218 328 028 993.40
<b>Future</b>										
Dec 2018	ZAJY	Future	6,905	0.1295	0.1288	0.0000	0.0000	0	0.00	
			6,905					0.00	0.00	1 021 902.00 11 470 576 312.50
		<b>Total</b>	<b>6,905</b>					<b>0.00</b>	<b>0.00</b>	1 021 902.00 11 470 576 312.50
<b>Future</b>										
Jun 2019	ZAKS	Future	2,166	0.1411	0.1404	0.0000	0.0000	0	0.00	
			2,166					0.00	0.00	38 066.00 515 662 000.00
		<b>Total</b>	<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	38 066.00 515 662 000.00
<b>Future</b>										
Dec 2018	ZATR	Future	10,000	2.4634	2.4917	0.0000	0.0000	0	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
			10,000					0.00	0.00	385 239.00	1 233 437 569.00	
		<b>Total</b>	<b>10,000</b>					<b>0.00</b>	<b>0.00</b>	385 239.00	1 233 437 569.00	
<b>Future</b>												
	Dec 2018	ZAUM	Future	320	14.5087	14.4322	0.0000	0.0000	6	8,712,000.00		
	Mar 2019	ZAUM	Future	10	14.6821	14.6053	0.0000	0.0000	0	0.00		
				330					6.00	8,712,000.00	153 091.00	176 958 782 860.00
		<b>Total</b>		<b>330</b>					<b>6.00</b>	<b>8,712,000.00</b>	157 614.00	176 958 782 860.00
<b>Future</b>												
	Dec 2018	ZAUS	Future	811,035	14.5087	14.4322	14.5300	14.4312	39,918	578,741,260.60		
	Mar 2019	ZAUS	Future	54,917	14.6821	14.6053	14.6869	14.6350	29	425,353.50		
	Jun 2019	ZAUS	Future	19,450	14.8422	14.7646	14.8845	14.8845	5	74,422.50		
	Sep 2019	ZAUS	Future	19,899	15.0151	14.9370	0.0000	0.0000	0	0.00		
	Dec 2019	ZAUS	Future	2,200	15.1865	15.1071	0.0000	0.0000	4,400	66,743,600.00		
	Mar 2020	ZAUS	Future	3,966	15.3755	15.2937	0.0000	0.0000	0	0.00		
				911,467					44,352.00	645,984,636.60	188 080 406.00	2 253 638 006 890.60
<b>Option</b>												
	Dec 2018	ZAUS	11.64 Put	2,764	2.6779	2.8386	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	11.75 Put	228,616	3.0544	3.3039	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	11.90 Put	11,300	3.6626	4.0708	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.00 Put	174,530	4.1407	4.6847	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.02 Put	5,500	4.2442	4.8187	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.10 Put	8,580	4.6881	5.3972	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.20 Put	7,300	5.3161	6.2258	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.25 Put	3,300	5.6646	6.6899	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.38 Put	39,589	6.6960	8.0782	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.50 Call	228,616	2016.5367	1941.8357	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.50 Put	26,400	7.8367	9.6357	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.63 Put	39,589	9.3260	11.6941	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.68 Put	10,000	9.9817	12.6077	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.75 Put	1,000	10.9892	14.0183	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.95 Put	500	14.5674	19.0753	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.00 Call	6,000	1524.3583	1452.8272	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.00 Put	177,520	15.6583	20.6272	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.05 Put	1,500	16.8435	24.0380	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.10 Put	11,300	19.8771	27.9135	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.20 Call	7,100	1335.9532	1269.3400	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.22 Put	5,500	28.9586	39.2423	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.25 Call	10,000	1290.3731	1224.7683	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.25 Put	17,800	31.6731	42.5683	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.32 Put	13,650	38.7799	51.1726	0.0000	0.0000	0	0.00		



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Dec 2018	ZAUS	13.33 Put	135,000	39.8884	52.5035	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1113.8684	1052.7916	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	55.1684	70.5916	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1071.3942	1011.5613	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	62.6942	79.3613	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	79.9984	99.2574	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	96.1588	117.5795	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	100.5396	122.5094	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	112.1045	135.4632	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	122.0055	147.0794	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	833.2746	782.2850	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	124.5746	150.0850	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	153.2344	182.3490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	727.7600	682.2067	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	694.6028	650.8898	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	185.9028	218.6898	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	222.6805	259.1544	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	230.5325	267.7431	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	613.2229	574.2969	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	242.6244	280.9321	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	246.7375	285.4112	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	572.3075	535.9340	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	263.6075	303.7340	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	281.1411	322.7071	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	544.3295	509.7520	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	308.6809	352.3734	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	501.7044	469.9464	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	323.0044	367.7464	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	491.4556	460.3898	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	332.7556	378.1898	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	352.7456	399.5474	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	466.5431	437.1841	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	447.3341	419.3103	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	419.7039	394.4569	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	411.0039	462.2569	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	416.7312	468.2726	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	378.6748	356.2226	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,500	469.9748	524.0226	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	374.7784	352.5932	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	370.9163	348.9958	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	513.4518	569.3237	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	341.3146	321.4359	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.74 Put	13,150	558.6471	616.2336	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	323.9407	305.2628	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	565.2407	623.0628	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	307.3953	289.8654	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	598.6953	657.6654	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	294.7380	278.0877	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	291.6531	275.2146	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	667.9799	729.0836	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	248.9298	235.4558	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	740.2298	803.2558	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	246.3098	233.0167	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	226.2959	214.3825	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	223.9111	212.1613	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	212.3512	201.3922	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	892.6903	958.8060	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	932.2973	998.9523	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	972.2965	1039.6104	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	167.8724	159.5428	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	152.4003	145.0678	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	149.1632	142.0383	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	145.9981	139.0739	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1137.2981	1206.8739	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	144.4406	137.6165	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	132.5829	126.5055	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	131.1727	125.1844	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	129.7795	123.8761	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	117.9022	112.7322	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	114.2005	109.2547	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1432.9374	1505.2454	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	100.5711	96.4418	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	94.4116	90.5717	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,050	85.5829	81.9964	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	75.6428	72.6263	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	73.1408	70.2667	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	68.3883	65.7786	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	65.3968	62.9516	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	45.8342	44.4120	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	35.2410	34.3199	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	28.3984	27.7736	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	3.6599	3.6128	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	11.6794	11.8201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	39.8889	43.8010	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	12.51 Put	720	42.4433	46.7256	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	75.4662	84.6262	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	77.6164	87.0943	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	86.7298	97.5521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	92.8597	104.5795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	102.0332	115.0882	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	106.1843	119.8381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	121.0193	139.9442	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	137.2200	157.6593	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	143.6794	164.6850	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	166.7290	189.6513	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	176.6189	200.3167	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	189.5354	214.2095	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	203.0703	228.7257	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	226.0379	253.2725	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	232.0368	259.6649	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	238.1388	266.1636	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	247.4830	276.1030	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	260.3104	289.7175	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	283.7644	314.8176	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	297.7456	330.6167	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	335.8373	372.0811	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	352.3716	389.4461	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	422.9944	463.3032	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	460.9650	502.8278	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	852.8307	818.2729	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	495.6103	538.7916	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	542.0696	586.8938	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	547.3651	592.3672	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	765.4992	734.2337	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	756.3146	725.4013	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	574.2146	620.1013	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	590.6324	637.0358	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	607.2775	654.1935	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	658.5522	707.2637	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	712.0122	762.4717	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	755.1205	806.6711	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	761.3687	813.0739	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	767.6394	819.4984	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	773.9363	825.9444	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	563.0825	540.4588	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	904.3890	959.2461	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	15.10 Put	1,000	945.1477	1000.7925	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	958.8924	1014.7933	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	965.7921	1021.8182	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	505.6912	485.4169	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1007.6049	1064.3757	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1014.6381	1071.5321	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1100.4814	1158.7765	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	428.4124	411.6673	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	425.9338	409.2952	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	416.1784	399.9519	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	411.3947	395.3701	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	406.6728	390.8473	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	379.5953	364.9089	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	348.5936	335.2053	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	344.6854	331.4599	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	333.2631	320.5122	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	313.4524	301.5225	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	291.8067	279.7610	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	264.2331	253.1464	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	252.1556	241.5979	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	224.5546	215.2014	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	221.9865	212.7428	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	180.9911	173.5292	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	179.9831	172.5648	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	175.0391	167.8326	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	169.3098	162.3488	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	168.3766	161.4559	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	167.4471	160.5688	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	155.9164	149.5307	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	150.0924	143.9571	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	134.8139	129.3382	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	109.3629	107.3391	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	95.5386	93.9577	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.2914	8.1703	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	39.3776	45.3398	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	93.7280	105.7102	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	134.0674	149.8114	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	138.0568	154.1502	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	192.3631	212.8743	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	371.2916	400.3992	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	389.7559	419.6258	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1290.5123	1244.3018	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	14.42 Call	30	1056.2254	1020.1467	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	982.8493	949.1571	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.63 Put	8,203	748.8019	793.4297	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	882.5069	851.8610	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.55 Call	25,000	636.8357	614.9742	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	617.6503	596.6541	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	571.7405	552.4189	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	543.3845	525.0997	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	525.4161	507.7903	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	241.2273	234.8946	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	14.7163	14.6473	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	70.5156	84.8137	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	483.4268	511.8163	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	507.2732	536.5929	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	556.9611	588.1401	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	578.4465	610.4041	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	609.2984	642.7005	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	667.1704	703.6753	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	878.4285	920.0681	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1289.1212	1338.1654	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.55 Call	30,000	869.4098	842.2409	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1411.2018	1462.2438	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	776.6113	752.8813	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	493.4999	478.5781	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	433.9849	420.8035	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	407.1761	394.7758	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	397.5509	385.4313	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	364.6540	354.6735	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	350.7937	341.2129	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	339.3367	330.0850	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	336.5929	327.4186	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	297.8636	289.7692	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	46.8062	51.3170	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	447.4044	474.9440	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	647.5597	632.5579	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	375.0363	365.2932	0.0000	0.0000	0	0.00		
			<u>8,229,562</u>					<i>0.00</i>	<i>0.00</i>	<i>60 740 033.00</i>	<i>0.00</i>
	<b>Total</b>		<b>9,141,029</b>					<b>44,352.00</b>	<b>645,984,636.60</b>	<b>248 820 439.00</b>	<b>2 253 638 006 890.60</b>

<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		10,880,635					64,717.00	947 551 973.70	339,526,376	3,124,820,235,203.52
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