



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 04-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Mar 2019	CAHF	Future	0	75.3500	75.5600	0.0000	0.0000	10,000	1,116,100.00		
			0					10,000.00	1,116,100.00	20 000.00	3 647 800.00
		Total	0					10,000.00	1,116,100.00	20 000.00	3 647 800.00
Future											
Feb 2019	DAEU	Future	26	15.8980	15.7740	0.0000	0.0000	26	410,124.00		
			26					26.00	410,124.00	801 499.00	11 968 723 606.50
Option											
Dec 2018	DAEU	15.83 Put	32,000	298.2467	356.9786	0.0000	0.0000	0	0.00		
Jan 2019	DAEU	15.85 Put	13,000	330.7856	385.8867	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	16,200	1221.0241	1285.5297	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	225.7031	223.3322	0.0000	0.0000	0	0.00		
			123,600					0.00	0.00	1 510 587.00	0.00
		Total	123,626					26.00	410,124.00	2 312 086.00	11 968 723 606.50
Future											
Jan 2019	DAGB	Future	27	17.6604	17.5987	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	17.7445	17.6770	0.0000	0.0000	47	830,819.00		
Mar 2019	DAGB	Future	24	17.8336	17.7719	0.0000	0.0000	0	0.00		
			98					47.00	830,819.00	54 078.00	891 295 207.50
		Total	98					47.00	830,819.00	261 391.00	891 295 207.50
Future											
Dec 2018	DAUS	Future	500	13.7154	13.6913	0.0000	0.0000	500	6,790,750.00		
Dec 2018	DAUS	Future	3,672	13.7229	13.6993	0.0000	0.0000	1,172	15,922,323.20		
Dec 2018	DAUS	Future	160	13.7372	13.7135	0.0000	0.0000	160	2,199,520.00		
Dec 2018	DAUS	Future	1,952	13.7532	13.7292	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.7564	13.7324	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	150	13.7777	13.7535	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	20	13.7793	13.7552	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	Future	51	13.7942	13.7701	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.8025	13.7784	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,263	13.8042	13.7801	0.0000	0.0000	14	192,298.40		
Feb 2019	DAUS	Future	70	13.8260	13.8019	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.8294	13.8053	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	13.8463	13.8221	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,025	13.8514	13.8272	0.0000	0.0000	320	4,386,080.00		
Mar 2019	DAUS	Future	80	13.8598	13.8357	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.8972	13.8731	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	13.9006	13.8765	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	13.9074	13.8833	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	13.9550	13.9310	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	225	14.0077	13.9837	0.0000	0.0000	170	2,353,280.00		
Jun 2019	DAUS	Future	170	14.0558	14.0316	0.0000	0.0000	170	2,361,372.00		
Jul 2019	DAUS	Future	55	14.0609	14.0367	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.1143	14.0898	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.1694	14.1446	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.2216	14.1964	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.2723	14.2466	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.3282	14.3019	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.3855	14.3591	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.4395	14.4129	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.4973	14.4704	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.5550	14.5279	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.6053	14.5779	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.6687	14.6410	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.7730	14.7449	0.0000	0.0000	0	0.00		
			<u>108,551</u>					<u>2,506.00</u>	<u>34,205,623.60</u>	<u>10 913 838.00</u>	<u>133 979 421 826.50</u>
Option											
Dec 2018	DAUS	15.45 Put	23,000	1734.7067	1760.4178	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.75 Put	65,000	88.9295	121.0936	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.90 Put	30,000	204.5392	237.0643	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.30 Put	30,000	586.3021	613.5575	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.90 Put	30,000	1184.7352	1210.4191	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.30 Put	30,000	1584.7124	1610.3374	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.50 Put	25,000	21.5331	37.6261	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.75 Put	125	103.9619	131.8362	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.07 Call	125	11.4205	15.2774	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.50 Call	125	1.1065	2.0824	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.65 Put	20,000	87.1087	106.0841	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.86 Put	7,500	206.2359	231.4118	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.08 Call	7,500	0.6382	0.8762	0.0000	0.0000	0	0.00		

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Dec 2018	DAUS	15.69 Call	20,000	0.0874	0.1188	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	281.0609	303.2719	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	338.0126	361.2257	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	601.2882	626.2665	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	1170.4689	1194.7048	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1566.4825	1590.5366	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	22.9059	26.8306	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	37.4812	43.4198	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	14.3258	15.1426	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	10.9735	11.6554	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	18.2251	22.1000	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	253.6202	272.4800	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	86.3864	85.7777	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	577.7769	601.3371	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	1222.2452	1246.8335	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	0.7436	0.8029	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	0.9622	1.0175	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	151.9941	166.5917	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	173.3849	169.9165	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	75.3109	75.1444	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	194.5599	210.3975	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	136.0564	134.1913	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	49.9125	50.3576	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	17.7313	18.0674	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	65.2916	70.6564	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	608.2355	629.5593	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	645.0199	666.7178	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	168.4746	166.9267	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	62.8867	63.4247	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	38.0195	39.0596	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	104.2886	114.1643	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	656.4934	679.4473	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	691.5706	714.8503	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	223.9620	224.4415	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	107.0412	108.4743	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	74.4502	75.9730	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	498.6167	518.7374	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	569.8744	591.2698	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	143.0610	153.6010	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	702.2947	724.7810	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	736.1388	758.9495	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	274.4831	275.1797	0.0000	0.0000	0	0.00

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Mar 2019	DAUS	15.43 Call	250	149.6954	151.3214	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	111.8016	113.5331	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	448.9470	467.4984	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	377.4148	376.4496	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	179.8843	190.6935	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	818.1306	809.3971	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	742.1517	763.5817	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	775.0093	796.7617	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	318.5087	318.8820	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	188.9597	190.3811	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	148.6471	150.2296	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	212.8879	223.8741	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	776.0391	796.6454	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	808.1388	829.0642	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	355.4648	355.6004	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	222.8886	224.1187	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	179.5318	180.9644	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1151.1256	1174.1079	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	127.4497	130.1404	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	240.4176	251.3464	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	805.4082	825.4999	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	837.0005	857.4049	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	387.1761	387.4320	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	252.7476	254.0604	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	208.6124	210.0202	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	408.1918	422.4330	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	203.8068	205.0951	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	269.9380	280.6510	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	835.8107	855.1999	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	866.8835	886.5828	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	424.3955	424.2693	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	287.7760	288.5798	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	242.8885	243.8248	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	1025.2857	1046.2085	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	281.9981	282.8605	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	295.2531	305.7896	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	860.8776	879.8168	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	891.5212	910.7636	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	450.8631	450.5712	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	314.2437	314.7119	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	268.4373	269.0509	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	122.0070	122.8129	0.0000	0.0000	0	0.00

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Sep 2019	DAUS	13.00 Put	500	318.7185	328.9750	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	883.0891	901.6307	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	913.3471	932.1966	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	479.6768	479.0015	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	343.1235	343.1442	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	294.9905	295.1694	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	341.4906	351.4623	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	904.2059	922.3949	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	934.5019	952.9601	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	502.2907	501.2914	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	367.9098	367.5398	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	320.4020	320.1788	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	361.2383	371.1046	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	921.7716	939.7373	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	951.8351	970.0518	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	525.4176	524.0179	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	392.1290	391.3666	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	347.2215	346.6108	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	380.5579	390.5662	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	940.7127	959.7778	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	970.5863	989.9071	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	553.7452	552.7238	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	422.2741	422.6661	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	378.1416	381.1592	0.0000	0.0000	0	0.00		
			<u>727,682</u>					0.00	0.00	21 976 883.00	0.00
Total			836,233					2,506.00	34,205,623.60	32 890 721.00	133 979 421 826.50
Future											
Dec 2018	EUUS	Future	55	1.1396	1.1357	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1586	1.1548	0.0000	0.0000	0	0.00		
			<u>637</u>					0.00	0.00	745 292.00	8 454 920 115.00
Total			637					0.00	0.00	745 292.00	8 454 920 115.00
Future											
Dec 2018	GBUS	Future	250	1.2756	1.2732	0.0000	0.0000	0	0.00		
			<u>250</u>					0.00	0.00	170 239.00	2 190 649 727.00
Total			250					0.00	0.00	170 239.00	2 190 649 727.00
Future											
Dec 2018	ZAAD	Future	19,842	10.1192	10.1048	10.0765	10.0550	350	3,521,400.00		
Mar 2019	ZAAD	Future	324	10.2515	10.2365	10.1800	10.1800	150	1,527,000.00		
Jun 2019	ZAAD	Future	4,934	10.3794	10.3650	0.0000	0.0000	0	0.00		

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	Dec 2019	ZAAD	Future	400	10.6538	10.6366	10.6341	10.6341	800	8,474,120.00		
				<u>25,500</u>					<u>1,300.00</u>	<u>13,522,520.00</u>	<u>3 775 639.00</u>	<u>32 960 756 746.50</u>
Option	Dec 2019	ZAAD	11.00 Call	1,000	466.5844	0.0000	0.0000	0.0000	2,000	0.00		
				<u>1,000</u>					<u>2,000.00</u>	<u>0.00</u>	<u>34 377.00</u>	<u>0.00</u>
			Total	26,500					3,300.00	13,522,520.00	3 810 016.00	32 960 756 746.50
Future	Dec 2018	ZACA	Future	1,050	10.3947	10.3996	10.3679	10.3103	350	3,621,155.00		
	Mar 2019	ZACA	Future	150	10.5345	10.5402	10.4879	10.4879	100	1,048,790.00		
	Sep 2019	ZACA	Future	250	10.6808	10.6868	0.0000	0.0000	0	0.00		
				<u>1,450</u>					<u>450.00</u>	<u>4,669,945.00</u>	<u>141 413.00</u>	<u>1 396 029 885.10</u>
			Total	1,450					450.00	4,669,945.00	141 413.00	1 396 029 885.10
Future	Dec 2018	ZADK	Future	140	2.1048	2.0943	0.0000	0.0000	0	0.00		
	Jun 2019	ZADK	Future	250	2.1893	2.1783	2.1702	2.1702	250	5,425,500.00		
				<u>390</u>					<u>250.00</u>	<u>5,425,500.00</u>	<u>12 685.00</u>	<u>273 417 109.00</u>
			Total	390					250.00	5,425,500.00	12 685.00	273 417 109.00
Future	Dec 2018	ZAEU	Future	118,513	15.6424	15.5624	15.5537	15.4876	7,843	121,727,949.10		
	Mar 2019	ZAEU	Future	37,567	15.9583	15.8774	15.8770	15.8353	351	5,563,604.80		
	Jun 2019	ZAEU	Future	4,942	16.2577	16.1762	16.1779	16.1779	5	80,889.50		
	Sep 2019	ZAEU	Future	8,591	16.5875	16.5045	0.0000	0.0000	0	0.00		
	Dec 2019	ZAEU	Future	277	16.8998	16.8133	0.0000	0.0000	0	0.00		
				<u>169,890</u>					<u>8,199.00</u>	<u>127,372,443.40</u>	<u>15 738 507.00</u>	<u>226 584 313 679.10</u>
Option	Mar 2019	ZAEU	16.00 Call	650	493.9849	466.5925	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	17.33 Put	0	1533.9476	1608.3320	0.0000	0.0000	462	0.00		
	Sep 2019	ZAEU	18.60 Call	55,000	418.1376	411.4510	0.0000	0.0000	0	0.00		
	Dec 2019	ZAEU	13.73 Put	17,150	88.7503	101.2550	0.0000	0.0000	0	0.00		
	Dec 2019	ZAEU	16.15 Put	17,150	697.0515	749.2862	0.0000	0.0000	0	0.00		
	Dec 2019	ZAEU	20.62 Call	17,150	364.6474	370.1757	0.0000	0.0000	0	0.00		
				<u>107,100</u>					<u>462.00</u>	<u>0.00</u>	<u>10 956 876.00</u>	<u>0.00</u>
			Total	276,990					8,661.00	127,372,443.40	26 695 383.00	226 584 313 679.10
Future	Dec 2018	ZAFR	Future	1,166	13.7988	13.7505	13.7203	13.7203	100	1,372,030.00		
	Jun 2019	ZAFR	Future	150	14.3710	14.3243	0.0000	0.0000	0	0.00		
				<u>1,316</u>					<u>100.00</u>	<u>1,372,030.00</u>	<u>621 358.00</u>	<u>6 678 940 122.80</u>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Total			1,316					100.00	1,372,030.00	621 358.00	6 678 940 122.80
Future											
Dec 2018	ZAGB	Future	417,708	17.5092	17.4465	0.0000	0.0000	134	2,330,312.60		
Mar 2019	ZAGB	Future	12,473	17.7996	17.7378	0.0000	0.0000	124	2,190,422.80		
Jun 2019	ZAGB	Future	5,539	18.0712	18.0098	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	12,350	18.3674	18.3047	18.3359	18.3160	870	15,938,400.00		
Dec 2019	ZAGB	Future	247	18.6495	18.5862	18.5895	18.5895	500	9,294,750.00		
Mar 2020	ZAGB	Future	0	18.9655	18.9040	18.8849	18.8849	500	9,442,450.00		
			448,317					2,128.00	39,196,335.40	12 947 276.00	220 471 949 018.00
Option											
Dec 2018	ZAGB	19.30 Call	200	2.5008	2.5603	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	726.3122	772.3171	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	235.5040	231.2539	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1591.7433	1650.4798	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	99.8329	100.3008	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	84.7177	85.7718	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	27.9147	30.4660	0.0000	0.0000	0	0.00		
			6,700					0.00	0.00	1 783 113.00	0.00
Total			455,017					2,128.00	39,196,335.40	14 730 389.00	220 471 949 018.00
Future											
Dec 2018	ZAJY	Future	6,905	0.1217	0.1208	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	0.1321	0.1311	0.0000	0.0000	0	0.00		
			2,166					0.00	0.00	38 066.00	515 662 000.00
Total			2,166					0.00	0.00	38 066.00	515 662 000.00
Future											
Mar 2019	ZATR	Future	14,000	2.4171	2.4823	0.0000	0.0000	14,000	34,319,600.00		
			14,000					14,000.00	34,319,600.00	409 239.00	1 293 087 569.00
Total			14,000					14,000.00	34,319,600.00	409 239.00	1 293 087 569.00
Future											
Dec 2018	ZAUM	Future	444	13.7260	13.7024	13.6364	13.6364	5	6,818,200.00		
Mar 2019	ZAUM	Future	10	13.8819	13.8578	0.0000	0.0000	0	0.00		
			454					5.00	6,818,200.00	154 086.00	178 398 461 730.00
Total			454					5.00	6,818,200.00	158 609.00	178 398 461 730.00

<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>		
Future											
Dec 2018	ZAUS	Future	655,945	13.7260	13.7024	13.7484	13.5628	164,520	2,242,077,919.40		
Mar 2019	ZAUS	Future	74,158	13.8819	13.8578	13.9000	13.7133	69,839	959,614,509.80		
Jun 2019	ZAUS	Future	20,847	14.0317	14.0076	13.9494	13.8925	2,141	29,812,948.00		
Sep 2019	ZAUS	Future	14,094	14.1937	14.1687	14.1048	14.1048	1,505	21,142,674.00		
Dec 2019	ZAUS	Future	9,600	14.3482	14.3220	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	3,966	14.5234	14.4963	0.0000	0.0000	0	0.00		
			<u>778,610</u>				<u>238,005.00</u>		<u>3,252,648,051.20</u>	<u>190 600 024.00</u>	<u>2 289 443 794 102.80</u>
Option											
Dec 2018	ZAUS	11.64 Put	2,764	0.0337	0.0467	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	11.75 Put	228,616	0.0463	0.0660	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	11.90 Put	11,300	0.0723	0.1070	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.00 Put	174,530	0.0982	0.1486	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.02 Put	5,500	0.1045	0.1588	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.10 Put	8,580	0.1344	0.2079	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.20 Put	7,300	0.1856	0.2928	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.25 Put	3,300	0.2189	0.3484	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.38 Put	39,589	0.3400	0.5541	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.50 Call	228,616	1226.5764	1203.2673	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.50 Put	26,400	0.5764	0.8673	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.63 Put	39,589	1.0486	1.4263	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.68 Put	10,000	1.3207	1.7329	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.75 Put	1,000	1.8246	2.2829	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.95 Put	500	4.5882	5.1143	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.00 Call	6,000	731.7712	708.6829	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.00 Put	72,280	5.7712	6.2829	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.05 Put	1,500	7.2529	8.4014	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.10 Put	11,300	9.5315	11.1235	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.20 Call	7,100	542.0829	521.3284	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.22 Put	5,500	17.7881	20.9526	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.25 Call	10,000	496.6412	476.7289	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.25 Put	17,800	20.6412	24.3289	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.32 Put	13,650	28.8719	34.0055	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.33 Put	135,000	30.2500	35.6159	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.45 Call	500	327.5575	312.6069	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.45 Put	4,080	51.5575	60.2069	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.50 Call	228,616	289.4616	276.1171	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.50 Put	29,800	63.4616	73.7171	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.60 Put	68,500	93.7081	107.4480	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.68 Put	13,150	124.8682	141.4721	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.70 Put	7,300	133.7016	151.0066	0.0000	0.0000	0	0.00		

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Dec 2018	ZAUS	13.75 Put	700	157.6753	179.1551	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	180.9721	203.4821	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	113.0594	112.2056	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	187.0594	209.8056	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	253.3353	277.9914	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	65.8564	67.5673	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	54.3578	56.5426	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	53,250	328.3578	354.1426	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	410.4507	436.7315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	427.5716	453.8914	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	32.2092	34.9432	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	115,000	453.6323	479.9814	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	462.4144	488.7659	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	23.9823	26.7107	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	497.9823	524.3107	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	534.1885	560.4507	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	19.3300	21.9702	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	589.5209	615.6238	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	13.5828	15.9872	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	617.5828	643.5872	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	12.4188	14.7522	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	636.4188	662.3522	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	674.3657	700.1489	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	9.9047	12.0493	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	8.2479	10.6081	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	6.7132	8.7925	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	780.7132	806.3925	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	790.5050	816.1252	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	4.9357	6.4895	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	878.9357	904.0895	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	4.7904	6.2996	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	4.6503	6.1159	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	948.0188	972.8838	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	3.6891	4.8471	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	1017.2987	1041.9277	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	3.2090	4.2081	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	1027.2090	1051.8081	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	2.8026	3.6645	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	1076.8026	1101.2645	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	2.6578	3.4703	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	2.5221	3.2879	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	2.4574	3.2010	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.90 Put	35,000	1176.1632	1200.4046	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	1.6952	2.1726	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	1275.6952	1299.7726	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	1.6558	2.1193	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	1.3785	1.7060	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	1.3481	1.6566	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	1.2083	1.4320	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	1.0329	1.2403	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1475.0329	1498.8403	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1524.8846	1548.6766	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1574.7592	1598.5364	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	0.6150	0.7730	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	0.4718	0.6078	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	0.4452	0.5767	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	0.4203	0.5474	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1774.4203	1798.1474	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	0.4084	0.5334	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	0.3256	0.4347	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	0.3167	0.4239	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	0.3080	0.4133	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	0.2406	0.3310	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	0.2219	0.3078	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	2114.1661	2137.8375	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	17,300	0.1619	0.2321	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	0.1389	0.2024	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	0.1110	0.1657	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	0.0851	0.1310	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	0.0793	0.1230	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.0690	0.1088	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.0630	0.1004	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.0407	0.0769	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.0641	0.1012	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.0892	0.1248	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	1.5251	1.7054	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	14.7889	15.6124	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	42.5444	46.9864	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	45.5059	51.5284	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	6,332	86.6784	95.2790	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	105.8497	115.3734	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	110.0240	119.7324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	127.9116	138.3541	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	140.0825	150.9810	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.12 Put	138,000	158.4519	169.9784	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	166.8097	178.6026	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	197.8413	211.7268	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	226.0225	240.8234	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	237.1951	252.3312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	252.6048	268.1839	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	276.8197	293.0460	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	293.6971	310.3446	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	315.6150	332.7745	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	9,570	338.4436	356.0964	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	347.8254	365.6738	0.0000	0.0000	100	0.00
Mar 2019	ZAUS	13.68 Put	14,200	376.8358	395.2457	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	386.7883	405.3826	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	396.8847	415.6577	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	412.2876	431.3263	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	433.3140	452.6958	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	465.8828	485.7519	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	471.4281	491.5684	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	493.9453	515.1633	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	436.2643	434.1742	0.0000	0.0000	300	0.00
Mar 2019	ZAUS	14.00 Put	22,406	554.3643	576.3742	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	579.4173	601.7233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	366.3079	365.5582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	684.4079	707.7582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	350.6037	350.1367	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	739.6035	763.3994	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	335.5666	335.3666	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	789.2735	813.4223	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	840.1606	864.6284	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	854.9143	879.4668	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	862.3274	886.9199	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	291.6635	292.1955	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	286.6014	287.2157	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	281.6294	282.3208	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	899.7294	924.5208	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	922.4384	947.3396	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	945.3394	970.3398	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	1015.1469	1040.3813	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	1086.5280	1111.9721	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	216.8409	218.3085	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1143.0720	1168.6583	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1151.2203	1176.8223	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	14.83 Put	10,010	1159.3831	1185.0055	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1167.5653	1193.2051	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	182.5448	184.3155	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1334.5171	1360.4291	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1385.7439	1411.7124	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1402.9253	1428.9104	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1411.5367	1437.5296	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	158.0077	159.9295	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1463.4671	1489.5040	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1472.1662	1498.2071	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	151.4984	153.4529	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	147.7365	149.7065	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1577.2995	1603.0585	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	129.6743	131.4164	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	124.0725	125.8587	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	122.9848	124.7783	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	118.7270	120.5533	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	116.6590	118.4977	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	114.6277	116.4815	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.60 Put	0	1826.8609	1852.8480	0.0000	0.0000	462	0.00
Mar 2019	ZAUS	15.66 Call	139,342	103.2136	105.1291	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	90.6408	92.5984	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	89.0934	91.0544	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	84.6246	86.5927	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	78.3738	80.3436	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	77.0541	79.0233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	69.0562	71.0111	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	59.9570	61.8732	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	56.1467	58.0375	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	47.7632	49.5798	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	47.0057	48.8143	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	34.2534	36.8209	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	33.9444	36.5394	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	32.4414	35.1691	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	30.7297	33.6014	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	30.4533	33.3481	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	30.1802	33.0977	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	26.8530	30.0254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	25.2246	28.5095	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	21.1226	24.6491	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	13.6842	17.4150	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	8.6025	11.0855	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	19.65 Call	0	1.7480	2.4915	0.0000	0.0000	462	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.3608	7.3734	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	81.6980	86.3353	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	161.1419	170.3224	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	221.1173	231.9553	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	226.9462	237.9262	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	304.8160	317.4710	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	573.9289	592.3559	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	601.2004	619.9571	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	709.3008	704.5868	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	546.5214	544.5454	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	497.3877	496.1344	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	1081.3069	1104.3619	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	432.6043	432.4940	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,000	369.3412	370.0646	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	275.8935	276.9298	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	248.5721	249.8488	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	232.0242	233.4296	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	221.6763	223.1593	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	92.7654	95.4485	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	12.0737	11.8474	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	165.5019	170.7592	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	395.4004	0.0000	0.0000	0.0000	3,900	0.00
Sep 2019	ZAUS	13.91 Put	81,930	704.3306	721.4669	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	737.7964	755.3133	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	806.8992	825.1622	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	878.7657	897.7358	0.0000	0.0000	8,100	0.00
Sep 2019	ZAUS	14.33 Put	33,151	952.8228	972.4906	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	0	1210.6598	1232.3624	0.0000	0.0000	2,400	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1699.7462	1723.8770	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1842.4491	1867.0681	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	416.4383	416.4418	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	242.8437	243.3934	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	215.9025	216.4651	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	204.0756	204.6330	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	199.8795	200.4340	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	182.8587	183.3856	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	174.3993	174.9179	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	33,715	160.7718	161.3271	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	19.32 Call	33,151	112.5122	113.1469	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	68.3327	73.1186	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	634.6741	650.4979	0.0000	0.0000	0	0.00

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Dec 2019	ZAUS	17.38 Call	1,000	357.3100	358.6304	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	20.00 Call	2,000	152.1003	151.8092	0.0000	0.0000	0	0.00
			<u>7,567,044</u>					<u>15,724.00</u>	<u>0.00</u>
	Total		8,345,654					253,729.00	3,252,648,051.20
									62 623 208.00
									2 289 443 794 102.80

Grand Total	10,091,686						295,202.00	3 521 907 291.60	346,165,299	3,171,477,130,483.73
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