



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 18-March-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Mar 2019	DAEU	Future	53	16.4164	16.3872	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	16.4723	16.4431	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	16.5086	16.4795	0.0000	0.0000	0	0.00		
			<u>58</u>					<u>0.00</u>	<u>0.00</u>	<u>816 108.00</u>	<u>12 204 137 941.00</u>
Option											
Aug 2019	DAEU	19.65 Call	42,400	98.7839	105.8089	0.0000	0.0000	20,000	0.00		
Feb 2020	DAEU	16.65 Call	21,000	1397.7202	1401.1416	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.91 Call	15,000	1258.4150	1264.0290	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.00 Call	15,000	1213.2338	1219.5187	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.07 Call	15,000	1179.1502	1185.9263	0.0000	0.0000	0	0.00		
			<u>108,400</u>					<u>20,000.00</u>	<u>0.00</u>	<u>1 769 987.00</u>	<u>0.00</u>
Total			108,458					20,000.00	0.00	2 586 095.00	12 204 137 941.00
Future											
Mar 2019	DAGB	Future	80	19.1533	19.1745	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	19.2074	19.2289	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	19.2424	19.2641	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	27	19.2520	19.2737	0.0000	0.0000	0	0.00		
			<u>270</u>					<u>0.00</u>	<u>0.00</u>	<u>66 926.00</u>	<u>1 122 552 906.30</u>
Total			270					0.00	0.00	274 239.00	1 122 552 906.30
Future											
Mar 2019	DAUS	Future	30,000	14.4406	14.4201	0.0000	0.0000	24,000	346,529,100.00		
Mar 2019	DAUS	Future	15,000	14.4456	14.4252	0.0000	0.0000	15,000	216,463,500.00		
Mar 2019	DAUS	Future	15,000	14.4507	14.4303	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	10,000	14.4558	14.4354	0.0000	0.0000	10,000	144,412,000.00		
Mar 2019	DAUS	Future	3,409	14.4574	14.4371	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	10,000	14.4625	14.4422	0.0000	0.0000	10,000	144,612,000.00		
Apr 2019	DAUS	Future	55	14.4642	14.4439	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	20,000	14.4675	14.4473	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>		
Apr 2019	DAUS	Future	2,025	14.4692	14.4490	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,830	14.4861	14.4660	0.0000	0.0000	550	7,929,625.00		
Apr 2019	DAUS	Future	349	14.5048	14.4848	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	15	14.5099	14.4899	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	5,957	14.5116	14.4916	0.0000	0.0000	4,000	57,772,000.00		
May 2019	DAUS	Future	303	14.5235	14.4550	0.0000	0.0000	303	4,379,865.00		
May 2019	DAUS	Future	25,000	14.5269	14.5070	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	93	14.5337	14.5139	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	387	14.5611	14.5415	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	416	14.5645	14.5450	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.5714	14.5519	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	2,607	14.6129	14.5937	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.6182	14.5990	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	682	14.6706	14.6515	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.6723	14.6532	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	1,678	14.7232	14.7041	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.7285	14.7094	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.7321	14.7129	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	3,617	14.7480	14.7287	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	53	14.7785	14.7589	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.7821	14.7625	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	108	14.8346	14.8147	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	Future	52	14.8861	14.8670	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.8913	14.8723	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.8948	14.8759	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.9472	14.9285	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0012	14.9816	0.0000	0.0000	0	0.00		
Feb 2020	DAUS	Future	3,500	15.0515	15.0330	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.0567	15.0386	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.1143	15.0971	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.1677	15.1489	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.2348	15.2140	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.3431	15.3252	0.0000	0.0000	0	0.00		
			<u>238,210</u>					<u>63,853.00</u>	<u>922,098,090.00</u>	<u>11 625 183.00</u>	<u>144 042 385 337.00</u>

Option

Mar 2019	DAUS	14.13 Call	50,000	312.2617	296.7549	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	30,000	7.9832	20.3313	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.80 Call	30,000	646.2127	630.1842	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Call	30,000	261.8185	264.4779	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	30,000	16.2185	39.2779	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.53 Put	30,000	136.7410	172.3920	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.37 Call	20,000	148.8293	160.7441	0.0000	0.0000	0	0.00

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Mar 2019	DAUS	14.37 Put	20,000	68.1293	100.4441	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	7.5971	14.3357	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	15.0109	25.2686	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.84 Call	15,000	623.5380	608.8290	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Call	6,500	474.3171	463.5386	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.18 Call	15,000	320.3196	315.1287	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.50 Put	20,000	161.5858	184.9737	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	0.1032	0.1862	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	1.2185	2.0386	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	598.7486	583.6502	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	55.2984	68.4863	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	67.9860	82.5525	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	177.1834	175.2507	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	71.9461	75.3645	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	4.6553	6.0226	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	1.7745	2.0504	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.00 Call	30,000	499.2129	489.2570	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	8.9312	11.3815	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	35,000	77.8541	91.9693	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	250.6803	249.7721	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	5.2297	6.8980	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1042.6879	1029.7818	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	155.3649	182.1049	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	174.9437	202.5050	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	188.4244	199.4208	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	62.0132	68.5717	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	37.6290	42.2767	0.0000	0.0000	0	0.00
May 2019	DAUS	13.72 Call	50,000	861.2013	856.1620	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Call	50,000	510.0487	515.7326	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Call	61,000	525.9759	533.2327	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	169.2999	179.2412	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	127.2631	135.8508	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	9.3672	17.4519	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	229.4661	257.3435	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	250.2908	278.8592	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	255.5710	267.8632	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	114.0980	122.7307	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	78.4442	85.6022	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.83 Put	45,000	120.7932	142.6139	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.06 Put	18,000	191.1884	217.0512	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	224.5248	251.8448	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	18,000	265.4460	294.1954	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	13.00 Put	500	24.7104	34.9599	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.02 Put	29,000	203.7679	231.1705	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	272.5193	302.5557	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	293.7649	324.4251	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	291.7568	306.1219	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.33 Call	29,000	253.7467	267.4676	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	148.2000	158.7752	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	108.6094	117.3902	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	44.2850	55.4703	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	315.9954	346.6719	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	337.5918	368.7899	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	333.6427	348.0898	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	187.4097	197.8684	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	144.3612	152.2859	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	462.2032	494.8384	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	182.5036	191.9259	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	61.3429	73.4504	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	349.1554	380.5766	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	370.9205	402.8005	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	359.9613	374.5357	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	214.8037	224.8883	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	169.9173	177.0193	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	66.4887	58.8430	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	77.2685	89.5115	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	377.8371	409.5679	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	399.7238	431.8765	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	390.3270	404.9656	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	243.9652	254.2153	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	195.7278	202.6522	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	91.9179	103.9722	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	405.4319	436.7725	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	427.4502	459.1874	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	415.6618	429.3866	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	270.1679	279.2425	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	221.5551	227.8229	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	103.4279	115.1599	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	427.7422	458.8655	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	449.8379	481.3359	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	439.5382	453.6976	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	293.5307	302.9141	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	244.7293	251.5247	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	114.0433	125.1366	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	14.20 Put	250	449.7178	479.4005	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	471.8290	501.9313	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	463.0963	477.1433	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	319.0741	327.9644	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	270.0819	276.7501	0.0000	0.0000	0	0.00	
			<u>890,794</u>					0.00	0.00	23 994 229.00
		Total	1,129,004					63,853.00	922,098,090.00	35 619 412.00
										144 042 385 337.00
Future										
Jun 2019	EUUS	Future	5	1.1428	1.1423	0.0000	0.0000	0	0.00	
			<u>5</u>					0.00	0.00	745 994.00
		Total	5					0.00	0.00	8 462 928 145.00
Future										
Jun 2019	GBUS	Future	5	1.3298	1.3331	0.0000	0.0000	0	0.00	
Dec 2019	GBUS	Future	2,219	1.3409	1.3443	0.0000	0.0000	0	0.00	
			<u>2,224</u>					0.00	0.00	176 170.00
		Total	2,224					0.00	0.00	2 268 656 737.00
Future										
Mar 2019	ZAAD	Future	0	10.2597	10.2203	10.2853	10.2788	5,189	53,272,096.30	
Jun 2019	ZAAD	Future	17,563	10.3737	10.3411	0.0000	0.0000	0	0.00	
Sep 2019	ZAAD	Future	1,731	10.5095	10.4764	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.6406	10.6074	0.0000	0.0000	0	0.00	
			<u>19,694</u>					5,189.00	53,272,096.30	3 867 180.00
										33 909 732 460.10
Option										
Dec 2019	ZAAD	11.00 Call	1,000	308.8954	307.8561	0.0000	0.0000	0	0.00	
			<u>1,000</u>					0.00	0.00	34 377.00
		Total	20,694					5,189.00	53,272,096.30	3 901 557.00
										33 909 732 460.10
Future										
Mar 2019	ZACA	Future	0	10.8390	10.8026	10.8631	10.8405	1,800	19,531,135.00	
Jun 2019	ZACA	Future	900	10.9666	10.9380	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	400	11.1145	11.0851	0.0000	0.0000	0	0.00	
			<u>1,300</u>					1,800.00	19,531,135.00	154 163.00
		Total	1,300					1,800.00	19,531,135.00	1 532 789 400.10
Future										
Jun 2019	ZADK	Future	250	2.2352	2.2311	0.0000	0.0000	0	0.00	
			<u>250</u>					0.00	0.00	13 625.00
		Total	250					0.00	0.00	294 020 589.00

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Future										
Mar 2019	ZAEU	Future	0	16.3997	16.3503	16.4144	16.3109	32,637	535,162,699.90	
Jun 2019	ZAEU	Future	121,707	16.6714	16.6429	16.7094	16.6584	1,062	17,726,837.60	
Sep 2019	ZAEU	Future	42,988	16.9916	16.9627	16.9781	16.9250	280	4,746,434.00	
Dec 2019	ZAEU	Future	32,686	17.2973	17.2691	0.0000	0.0000	0	0.00	
Mar 2020	ZAEU	Future	4,361	17.6376	17.6089	0.0000	0.0000	0	0.00	
			<u>201,742</u>					<u>33,979.00</u>	<u>557,635,971.50</u>	<u>16 651 602.00</u> <u>241 511 320 167.70</u>
Option										
Jun 2019	ZAEU	15.35 Put	570	44.2741	53.0957	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	16.64 Call	300	480.2210	487.5733	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	15.62 Put	14,429	151.2843	172.0306	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.27 Call	14,429	323.4501	334.6851	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	40,000	268.1172	278.9456	0.0000	0.0000	15,000	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	23.1725	25.0554	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	14.09 Put	136,646	33.9573	38.3850	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	15.70 Put	136,646	215.1109	237.0106	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	339.0169	366.4587	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	19.79 Call	136,646	289.8381	299.9216	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	208.3480	216.9898	0.0000	0.0000	0	0.00	
			<u>531,116</u>					<u>15,000.00</u>	<u>0.00</u>	<u>11 699 913.00</u> <u>0.00</u>
	Total		732,858					48,979.00	557,635,971.50	28 351 515.00 241 511 320 167.70
Future										
Mar 2019	ZAFR	Future	0	14.4321	14.3930	0.0000	0.0000	893	12,887,865.30	
Jun 2019	ZAFR	Future	1,393	14.6847	14.6635	0.0000	0.0000	0	0.00	
Sep 2019	ZAFR	Future	100	14.9821	14.9607	0.0000	0.0000	0	0.00	
			<u>1,493</u>					<u>893.00</u>	<u>12,887,865.30</u>	<u>631 402.00</u> <u>6 823 762 935.90</u>
	Total		1,493					893.00	12,887,865.30	631 402.00 6 823 762 935.90
Future										
Mar 2019	ZAGB	Future	0	19.1197	19.1384	19.1697	19.0266	39,838	761,805,563.40	
Jun 2019	ZAGB	Future	199,978	19.3994	19.4223	19.4793	19.3358	820	15,936,453.10	
Sep 2019	ZAGB	Future	20,179	19.7057	19.7291	19.7478	19.7381	665	13,127,831.50	
Dec 2019	ZAGB	Future	12,846	19.9936	20.0189	0.0000	0.0000	0	0.00	
Mar 2020	ZAGB	Future	4,674	20.3089	20.3360	20.3172	20.3172	500	10,158,600.00	
			<u>237,677</u>					<u>41,823.00</u>	<u>801,028,448.00</u>	<u>14 551 768.00</u> <u>249 999 768 920.90</u>
Option										
Jun 2019	ZAGB	18.00 Call	1,000	1503.5810	1539.8323	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	18.75 Put	500	470.9332	491.3956	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	22.13 Call	500	389.5362	414.7767	0.0000	0.0000	0	0.00	
			<u>2,000</u>					<u>0.00</u>	<u>0.00</u>	<u>1 790 313.00</u> <u>0.00</u>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
Total			239,677					41,823.00	801,028,448.00	16 342 081.00	249 999 768 920.90	
Future												
	Mar 2019	ZAJY	Future	0	0.1296	0.1294	0.0000	0.0000	10,000	129,600,000.00		
				0					10,000.00	129,600,000.00	1 101 937.00	12 492 872 053.60
			Total	0					10,000.00	129,600,000.00	1 101 937.00	12 492 872 053.60
Future												
	Jun 2019	ZAKS	Future	2,166	0.1429	0.1432	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												
	Sep 2019	ZANZ	Future	646	10.1568	10.1321	0.0000	0.0000	0	0.00		
				646					0.00	0.00	146 792.00	1 127 677 204.60
			Total	646					0.00	0.00	166 792.00	1 127 677 204.60
Future												
	Jun 2019	ZATR	Future	30,000	2.5448	2.5333	0.0000	0.0000	0	0.00		
				30,000					0.00	0.00	505 727.00	1 541 285 993.10
			Total	30,000					0.00	0.00	505 727.00	1 541 285 993.10
Future												
	Jun 2019	ZAUM	Future	470	14.5885	14.5692	0.0000	0.0000	0	0.00		
				470					0.00	0.00	156 693.00	182 148 505 290.00
			Total	470					0.00	0.00	161 216.00	182 148 505 290.00
Future												
	Mar 2019	ZAUS	Future	0	14.4545	14.4184	14.4700	14.3600	1,018,862	14,724,052,902.70		
	Jun 2019	ZAUS	Future	555,986	14.5885	14.5692	14.6200	14.5150	453,940	6,617,011,898.50		
	Sep 2019	ZAUS	Future	27,917	14.7533	14.7340	14.7441	14.7400	35	515,904.10		
	Dec 2019	ZAUS	Future	22,743	14.9103	14.8919	0.0000	0.0000	0	0.00		
	Mar 2020	ZAUS	Future	10,345	15.0812	15.0646	15.0833	15.0833	400	6,033,320.00		
	Jun 2020	ZAUS	Future	700	15.2546	15.2332	0.0000	0.0000	0	0.00		
				617,691					1,473,237.00	21,347,614,025.30	200 754 869.00	2 433 901 478 448.50
Option												
	Jun 2019	ZAUS	10.69 Put	1,000	0.2989	0.5796	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	12.28 Put	1,000	6.4830	9.5730	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	12.65 Put	1,050	10.6731	15.6573	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	12.75 Put	1,000	12.2610	17.9324	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	12.92 Put	2,100	15.5892	22.6516	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	12.98 Put	911	16.9919	24.6215	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	17.4901	25.3186	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.10 Put	14,000	20.2349	29.1589	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	28.8768	42.0995	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	29.7660	43.1712	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.30 Put	143,800	34.5314	48.8533	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.35 Put	4,317	39.8633	55.0929	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	7,500	1148.1362	1146.6820	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	1064.8374	1064.9680	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Put	700	76.3374	95.7680	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	127.0355	149.3612	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	834.9619	839.1572	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.91 Put	1,000	149.4050	173.0920	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	779.5872	785.2783	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	23,500	766.1313	772.1831	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	177.6313	202.9831	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.06 Put	2,100	198.2142	224.6032	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	201.7836	228.3391	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	251.8031	280.3572	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,982	272.8386	302.0711	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	294.8643	324.7269	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	556.3770	567.5178	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	520.2344	532.0989	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.44 Put	31,500	361.7577	393.1086	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	444.6504	458.4431	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	465.1939	498.9522	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	477.2540	511.0722	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.75 Call	1,000	378.1397	392.8421	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	353.7908	368.5160	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	17,500	298.0676	312.5279	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	2,900	271.0313	285.1768	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	224.3089	237.5758	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	220.0775	233.2589	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	146,182	185.5772	197.9037	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.60 Call	143,800	168.9480	180.7515	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	162.7537	174.3421	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	140.3462	151.0554	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	129.2527	139.4672	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	125.7754	135.8243	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	5,020	117.0045	126.6146	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	107.6035	116.7889	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	15.4813	18.1053	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>
Sep 2019	ZAUS	10.75 Put	1,000	4.1898	4.6844	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	33.4394	38.8484	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.87 Put	9,783	58.5708	67.8451	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.02 Put	17,287	72.6023	83.8749	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.15 Put	11,333	86.9595	100.1722	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	99.5526	114.3846	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.65 Call	5,666	1284.1201	1287.9836	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.70 Put	2,000	193.8102	217.8113	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.77 Put	28,500	213.0457	238.2102	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	274.9698	303.3334	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.00 Put	1,000	285.1699	313.9883	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.12 Put	177	331.7192	361.9773	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	369.3702	400.5942	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.30 Put	9,783	409.3381	441.4345	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.36 Put	111	437.2592	469.8789	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.46 Put	17,287	486.0190	519.4197	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.50 Call	14,000	759.5931	773.9721	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.65 Put	3,000	586.1441	620.7022	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.85 Put	3,000	702.8898	738.0099	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.00 Call	750	551.0502	566.8686	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.03 Call	177	540.6369	556.4378	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.16 Call	111	497.7875	513.4017	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1059.7951	1094.1451	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.51 Call	28,500	399.1262	413.9713	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1193.6791	1227.7019	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	320.2468	334.0377	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.12 Call	17,287	153.0049	157.3880	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.18 Call	9,783	147.9154	151.8966	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	143.8264	147.4841	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	114.9763	116.3094	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	105.6873	104.9695	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	102.8751	101.2829	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	87.2273	80.6764	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	15.2667	16.1800	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	12.87 Put	139,860	88.5942	99.7051	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.00 Put	49,600	107.7433	120.7349	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	252.0392	275.1504	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.80 Put	500	293.8148	318.7904	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.94 Put	139,860	339.8473	366.6319	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.00 Put	15,500	360.8984	388.4338	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.07 Put	1,351	386.4701	414.8583	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.08 Put	4,150	390.2091	418.7191	0.0000	0.0000	0	0.00

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Dec 2019	ZAUS	14.10 Put	52,300	397.7631	0.0000	0.0000	0.0000	52,300	0.00	
Dec 2019	ZAUS	14.41 Put	49,600	535.3113	566.6737	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	15.80 Call	250	520.1834	535.1840	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	16.13 Call	52,300	445.4591	0.0000	0.0000	0.0000	52,300	0.00	
Dec 2019	ZAUS	16.20 Call	50,100	431.2785	445.3174	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	16.25 Call	15,000	421.4758	435.3774	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	16.35 Call	4,150	402.6667	416.2791	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	16.37 Call	500	399.0267	412.5816	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	16.85 Call	1,351	318.8123	329.1124	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.02 Call	139,860	294.9665	304.1392	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38 Call	1,000	251.1550	258.0944	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	103.3285	91.1327	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	11.91 Put	1,000	31.8497	18.3971	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	14.01 Put	1,000	425.5443	451.6544	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	17.73 Call	1,000	343.9564	350.2273	0.0000	0.0000	0	0.00	
Jun 2020	ZAUS	11.90 Put	900	53.9495	0.0000	0.0000	0.0000	1,800	0.00	
Jun 2020	ZAUS	14.25 Put	900	591.3323	0.0000	0.0000	0.0000	900	0.00	
Jun 2020	ZAUS	17.26 Call	900	588.0587	0.0000	0.0000	0.0000	1,800	0.00	
			<u>2,223,111</u>					<u>109,100.00</u>	<u>0.00</u>	<u>67 476 928.00</u>
		Total	2,840,802					1,582,337.00		21,347,614,025.30
		Grand Total	5,110,317					1,774,874.00		23 843 667 631.40
										367,761,320
										3,377,307,832,243.63