



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 19-March-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Mar 2019	DAEU	Future	53	16.4230	16.4164	0.0000	0.0000	0	0.00
Apr 2019	DAEU	Future	4	16.4786	16.4723	0.0000	0.0000	0	0.00
Apr 2019	DAEU	Future	1	16.5152	16.5086	0.0000	0.0000	0	0.00
			<u>58</u>					<i>0.00</i>	<i>0.00</i>
									<i>816 108.00</i>
									<i>12 204 137 941.00</i>
Option									
Aug 2019	DAEU	19.65 Call	42,400	95.4010	98.7839	0.0000	0.0000	0	0.00
Feb 2020	DAEU	16.65 Call	21,000	1401.3627	1397.7202	0.0000	0.0000	0	0.00
Feb 2020	DAEU	16.91 Call	15,000	1260.9345	1258.4150	0.0000	0.0000	0	0.00
Feb 2020	DAEU	17.00 Call	15,000	1215.3749	1213.2338	0.0000	0.0000	0	0.00
Feb 2020	DAEU	17.07 Call	15,000	1180.9933	1179.1502	0.0000	0.0000	0	0.00
			<u>108,400</u>					<i>0.00</i>	<i>0.00</i>
									<i>1 769 987.00</i>
									<i>0.00</i>
		Total	108,458					0.00	0.00
									<i>2 586 095.00</i>
									<i>12 204 137 941.00</i>
Future									
Mar 2019	DAGB	Future	80	19.1820	19.1533	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	43	19.2357	19.2074	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	120	19.2712	19.2424	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	27	19.2808	19.2520	0.0000	0.0000	0	0.00
			<u>270</u>					<i>0.00</i>	<i>0.00</i>
									<i>66 926.00</i>
									<i>1 122 552 906.30</i>
		Total	270					0.00	0.00
									<i>274 239.00</i>
									<i>1 122 552 906.30</i>
Future									
Mar 2019	DAUS	Future	0	14.4630	14.4406	0.0000	0.0000	61,500	888,414,500.00
Mar 2019	DAUS	Future	5,000	14.4457	14.4456	0.0000	0.0000	10,000	144,516,000.00
Mar 2019	DAUS	Future	21,575	14.4508	14.4507	0.0000	0.0000	20,000	289,168,000.00
Mar 2019	DAUS	Future	10,000	14.4559	14.4558	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,409	14.4576	14.4574	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	10,000	14.4626	14.4625	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	14.4643	14.4642	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	20,000	14.4675	14.4675	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	14.4692	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,830	14.4859	14.4861	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	349	14.5049	14.5048	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	15	14.5100	14.5099	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	5,957	14.5118	14.5116	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	303	14.5238	14.5235	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	25,000	14.5272	14.5269	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	93	14.5341	14.5337	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	387	14.5618	14.5611	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	416	14.5652	14.5645	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	74	14.5722	14.5714	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	2,607	14.6140	14.6129	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	14.6193	14.6182	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	682	14.6722	14.6706	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	14.6739	14.6723	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	1,678	14.7253	14.7232	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	14.7306	14.7285	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	74	14.7342	14.7321	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	3,617	14.7502	14.7480	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	53	14.7805	14.7785	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.7841	14.7821	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	108	14.8364	14.8346	0.0000	0.0000	0	0.00
Nov 2019	DAUS	Future	52	14.8891	14.8861	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	14.8945	14.8913	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	321	14.8982	14.8948	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.9513	14.9472	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.0048	15.0012	0.0000	0.0000	0	0.00
Feb 2020	DAUS	Future	3,500	15.0568	15.0515	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	15.0624	15.0567	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.1208	15.1143	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.1725	15.1677	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	15.2375	15.2348	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	15.3482	15.3431	0.0000	0.0000	0	0.00
			<u>204,785</u>					<u>91,500.00</u>	<u>1,322,098,500.00</u>
									<u>11 716 683.00</u>
									<u>145 364 483 837.00</u>
Option									
Mar 2019	DAUS	14.20 Put	30,000	3.2917	7.9832	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.80 Call	30,000	646.1478	646.2127	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Call	30,000	258.1665	261.8185	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	30,000	12.4665	16.2185	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.53 Put	30,000	128.5317	136.7410	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.37 Call	20,000	144.1794	148.8293	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.37 Put	20,000	63.3794	68.1293	0.0000	0.0000	0	0.00

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Mar 2019	DAUS	13.88 Put	32,000	6.6365	7.5971	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	13.1258	15.0109	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.84 Call	15,000	622.8279	623.5380	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Call	6,500	472.5344	474.3171	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.18 Call	15,000	316.5525	320.3196	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.50 Put	20,000	154.9201	161.5858	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	0.1009	0.1032	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	1.1284	1.2185	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	597.9852	598.7486	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	51.5142	55.2984	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	63.6446	67.9860	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	171.5388	177.1834	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	67.1004	71.9461	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	4.0076	4.6553	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	1.5065	1.7745	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.00 Call	30,000	498.4773	499.2129	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	8.7667	8.9312	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	35,000	76.2484	77.8541	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	248.4003	250.6803	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.38 Call	20,000	288.2016	0.0000	0.0000	0.0000	20,000	0.00
Apr 2019	DAUS	14.40 Call	20,000	277.7116	0.0000	0.0000	0.0000	20,000	0.00
Apr 2019	DAUS	14.44 Call	20,000	257.5811	0.0000	0.0000	0.0000	20,000	0.00
Apr 2019	DAUS	14.45 Call	40,000	252.7239	0.0000	0.0000	0.0000	40,000	0.00
Apr 2019	DAUS	13.00 Put	3,000	5.0866	5.2297	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1042.1518	1042.6879	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	150.4529	155.3649	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	169.5953	174.9437	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	180.5482	188.4244	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	55.9431	62.0132	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	32.8828	37.6290	0.0000	0.0000	0	0.00
May 2019	DAUS	13.72 Call	50,000	859.0158	861.2013	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Call	50,000	503.7631	510.0487	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Call	61,000	520.6339	525.9759	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	161.0049	169.2999	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	119.4426	127.2631	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	9.4521	9.3672	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	225.2778	229.4661	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	245.7811	250.2908	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	248.8116	255.5710	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	107.8414	114.0980	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	72.8645	78.4442	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.83 Put	45,000	119.3965	120.7932	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	14.06 Put	18,000	188.6137	191.1884	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	221.4461	224.5248	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	18,000	261.7968	265.4460	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	25.0958	24.7104	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.02 Put	29,000	201.6229	203.7679	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	269.4161	272.5193	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	290.3871	293.7649	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	286.2509	291.7568	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.33 Call	29,000	248.0656	253.7467	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	142.6316	148.2000	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	103.8404	108.6094	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	44.3682	44.2850	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	312.1141	315.9954	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	333.4289	337.5918	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	327.2936	333.6427	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	181.0898	187.4097	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	138.4938	144.3612	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	456.4545	462.2032	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	176.0483	182.5036	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	61.0897	61.3429	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	344.7199	349.1554	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	366.2216	370.9205	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	352.7458	359.9613	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	207.7643	214.8037	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	163.3260	169.9173	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	61.6102	66.4887	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	76.7937	77.2685	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	373.0474	377.8371	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	394.6532	399.7238	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	382.6111	390.3270	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	236.4533	243.9652	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	188.6446	195.7278	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	91.2065	91.9179	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	400.6673	405.4319	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	422.4400	427.4502	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	408.1463	415.6618	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	262.9551	270.1679	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	214.6921	221.5551	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	102.5236	103.4279	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	422.6579	427.7422	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	444.5123	449.8379	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	432.6350	439.5382	0.0000	0.0000	0	0.00

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Nov 2019	DAUS	16.87 Call	250	287.1229	293.5307	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	238.4672	244.7293	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	112.9337	114.0433	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	444.2032	449.7178	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	466.0848	471.8290	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	456.7167	463.0963	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	312.8056	319.0741	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	264.0116	270.0819	0.0000	0.0000	0	0.00		
			940,794					100,000.00	0.00	24 094 229.00	0.00
	Total		1,145,579					191,500.00	1,322,098,500.00	35 810 912.00	145 364 483 837.00
Future											
Jun 2019	EUUS	Future	5	1.1432	1.1428	0.0000	0.0000	0	0.00		
			5					0.00	0.00	745 994.00	8 462 928 145.00
	Total		5					0.00	0.00	745 994.00	8 462 928 145.00
Future											
Jun 2019	GBUS	Future	5	1.3318	1.3298	0.0000	0.0000	0	0.00		
Dec 2019	GBUS	Future	2,219	1.3429	1.3409	0.0000	0.0000	0	0.00		
			2,224					0.00	0.00	176 170.00	2 268 656 737.00
	Total		2,224					0.00	0.00	176 170.00	2 268 656 737.00
Future											
Jun 2019	ZAAD	Future	17,563	10.3759	10.3737	10.3725	10.3379	251	2,594,892.50		
Sep 2019	ZAAD	Future	1,731	10.5135	10.5095	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.6477	10.6406	0.0000	0.0000	0	0.00		
			19,694					251.00	2,594,892.50	3 867 431.00	33 912 327 352.60
Option											
Dec 2019	ZAAD	11.00 Call	1,000	307.3762	308.8954	0.0000	0.0000	0	0.00		
			1,000					0.00	0.00	34 377.00	0.00
	Total		20,694					251.00	2,594,892.50	3 901 808.00	33 912 327 352.60
Future											
Jun 2019	ZACA	Future	1,150	11.0195	10.9666	10.9385	10.9385	250	2,734,625.00		
Sep 2019	ZACA	Future	400	11.1691	11.1145	0.0000	0.0000	0	0.00		
			1,550					250.00	2,734,625.00	154 413.00	1 535 524 025.10
	Total		1,550					250.00	2,734,625.00	154 413.00	1 535 524 025.10
Future											
Jun 2019	ZADK	Future	250	2.2363	2.2352	0.0000	0.0000	0	0.00		
			250					0.00	0.00	13 625.00	294 020 589.00

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Total			250					0.00	0.00	13 625.00	294 020 589.00
Future											
Jun 2019	ZAEU	Future	121,707	16.6793	16.6714	16.6406	16.6372	3,634	60,478,755.40		
Sep 2019	ZAEU	Future	42,988	17.0008	16.9916	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	Future	32,686	17.3097	17.2973	0.0000	0.0000	0	0.00		
Mar 2020	ZAEU	Future	4,361	17.6527	17.6376	0.0000	0.0000	0	0.00		
			<u>201,742</u>					<u>3,634.00</u>	<u>60,478,755.40</u>	<u>16 655 236.00</u>	<u>241 571 798 923.10</u>
Option											
Jun 2019	ZAEU	15.35 Put	570	44.4365	44.2741	0.0000	0.0000	0	0.00		
Jun 2019	ZAEU	16.64 Call	300	480.0796	480.2210	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	15.62 Put	14,429	148.8118	151.2843	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.27 Call	14,429	320.0265	323.4501	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	40,000	264.5682	268.1172	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	23.3217	23.1725	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	14.09 Put	136,646	34.0883	33.9573	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	15.70 Put	136,646	211.2621	215.1109	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	333.3029	339.0169	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	19.79 Call	136,646	287.1558	289.8381	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	205.6928	208.3480	0.0000	0.0000	0	0.00		
			<u>531,116</u>					<u>0.00</u>	<u>0.00</u>	<u>11 699 913.00</u>	<u>0.00</u>
Total			732,858					3,634.00	60,478,755.40	28 355 149.00	241 571 798 923.10
Future											
Jun 2019	ZAFR	Future	1,293	14.7152	14.6847	14.6618	14.6618	100	1,466,180.00		
Sep 2019	ZAFR	Future	100	15.0139	14.9821	0.0000	0.0000	0	0.00		
			<u>1,393</u>					<u>100.00</u>	<u>1,466,180.00</u>	<u>631 502.00</u>	<u>6 825 229 115.90</u>
Total			1,393					100.00	1,466,180.00	631 502.00	6 825 229 115.90
Future											
Jun 2019	ZAGB	Future	199,978	19.4297	19.3994	19.4001	19.3460	9	174,442.00		
Sep 2019	ZAGB	Future	20,179	19.7377	19.7057	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	Future	12,846	20.0292	19.9936	0.0000	0.0000	0	0.00		
Mar 2020	ZAGB	Future	4,674	20.3492	20.3089	0.0000	0.0000	0	0.00		
			<u>237,677</u>					<u>9.00</u>	<u>174,442.00</u>	<u>14 551 777.00</u>	<u>249 999 943 362.90</u>
Option											
Jun 2019	ZAGB	18.00 Call	1,000	1526.7710	1503.5810	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	18.75 Put	500	454.1326	470.9332	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	22.13 Call	500	386.2402	389.5362	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>
Total			239,677					9.00	174,442.00	16 342 090.00	249 999 943 362.90

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Future	Jun 2019	ZAKS	Future	2,166	0.1427	0.1429	0.0000	0.0000	0	0.00
				<u>2,166</u>					<u>0.00</u>	<u>0.00</u>
			Total	2,166					0.00	0.00
									38 066.00	515 662 000.00
									38 066.00	515 662 000.00
Future	Sep 2019	ZANZ	Future	646	10.1652	10.1568	0.0000	0.0000	0	0.00
				<u>646</u>					<u>0.00</u>	<u>0.00</u>
			Total	646					0.00	0.00
									146 792.00	1 127 677 204.60
									166 792.00	1 127 677 204.60
Future	Jun 2019	ZATR	Future	30,000	2.5360	2.5448	0.0000	0.0000	0	0.00
				<u>30,000</u>					<u>0.00</u>	<u>0.00</u>
			Total	30,000					0.00	0.00
									505 727.00	1 541 285 993.10
									505 727.00	1 541 285 993.10
Future	Jun 2019	ZAUM	Future	470	14.5896	14.5885	0.0000	0.0000	0	0.00
				<u>470</u>					<u>0.00</u>	<u>0.00</u>
			Total	470					0.00	0.00
									156 693.00	182 148 505 290.00
									161 216.00	182 148 505 290.00
Future	Jun 2019	ZAUS	Future	787,818	14.5896	14.5885	14.6311	14.4935	595,094	8,655,499,634.10
	Sep 2019	ZAUS	Future	28,107	14.7555	14.7533	14.7687	14.6800	1,265	18,578,168.00
	Dec 2019	ZAUS	Future	22,743	14.9146	14.9103	0.0000	0.0000	0	0.00
	Mar 2020	ZAUS	Future	12,172	15.0885	15.0812	0.0000	0.0000	5,925	86,584,987.50
	Jun 2020	ZAUS	Future	700	15.2566	15.2546	0.0000	0.0000	0	0.00
				<u>851,540</u>					<u>602,284.00</u>	<u>8,760,662,789.60</u>
									201 357 153.00	2 442 662 141 238.10
Option	Jun 2019	ZAUS	10.69 Put	1,000	0.2932	0.2989	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	12.28 Put	1,000	6.6157	6.4830	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	12.65 Put	1,050	10.8898	10.6731	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	12.75 Put	1,000	12.5087	12.2610	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	12.92 Put	2,100	15.8995	15.5892	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	12.98 Put	911	17.3280	16.9919	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	13.00 Put	165,703	17.8355	17.4901	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	13.10 Put	14,000	20.6283	20.2349	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	13.24 Put	30,000	29.2447	28.8768	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	13.25 Put	4,582	30.1257	29.7660	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	13.30 Put	143,800	34.8420	34.5314	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	13.35 Put	4,317	40.1097	39.8633	0.0000	0.0000	0	0.00
	Jun 2019	ZAUS	13.50 Call	7,500	1149.1993	1148.1362	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Jun 2019	ZAUS	13.60 Call	700	1065.6295	1064.8374	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Put	700	76.0295	76.3374	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	125.8589	127.0355	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	834.5710	834.9619	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.91 Put	1,000	147.8679	149.4050	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	778.8125	779.5872	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	23,500	765.2599	766.1313	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	175.6599	177.6313	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.06 Put	2,100	195.9381	198.2142	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	199.4533	201.7836	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	248.7829	251.8031	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,982	269.5455	272.8386	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	291.3008	294.8643	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	553.6442	556.3770	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	517.1298	520.2344	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.44 Put	31,500	357.4484	361.7577	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	440.7339	444.6504	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	459.9797	465.1939	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	471.9737	477.2540	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.75 Call	1,000	373.6465	378.1397	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	349.1041	353.7908	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	17,500	292.9758	298.0676	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	2,900	265.7737	271.0313	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	218.8313	224.3089	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	214.5943	220.0775	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	146,182	180.1044	185.5772	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.60 Call	143,800	163.5177	168.9480	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	157.3439	162.7537	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	135.0563	140.3462	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	124.0481	129.2527	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	120.6028	125.7754	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	5,020	111.9167	117.0045	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	102.6338	107.6035	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	14.4445	15.4813	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	4.0836	4.1898	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	33.1823	33.4394	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.87 Put	9,783	58.2052	58.5708	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.02 Put	17,287	72.1893	72.6023	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.15 Put	11,333	86.5010	86.9595	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	99.0576	99.5526	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.65 Call	5,666	1284.4928	1284.1201	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.70 Put	2,000	191.7558	193.8102	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	13.77 Put	28,500	210.6580	213.0457	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	271.5440	274.9698	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.00 Put	1,000	281.5781	285.1699	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.12 Put	177	327.4426	331.7192	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	364.5722	369.3702	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.30 Put	9,783	404.0111	409.3381	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.36 Put	111	431.5784	437.2592	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.46 Put	17,287	479.7612	486.0190	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.50 Call	14,000	755.3040	759.5931	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.65 Put	3,000	578.8147	586.1441	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.70 Put	1,000	606.4698	0.0000	0.0000	0.0000	1,000	0.00
Sep 2019	ZAUS	14.85 Put	3,000	694.6967	702.8898	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.00 Call	750	544.6179	551.0502	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.03 Call	177	534.1308	540.6369	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.16 Call	111	490.9630	497.7875	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1050.3394	1059.7951	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.51 Call	28,500	391.6814	399.1262	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1183.9968	1193.6791	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	312.6532	320.2468	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.12 Call	17,287	146.4710	153.0049	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.18 Call	9,783	141.4596	147.9154	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	137.4353	143.8264	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	109.1252	114.9763	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	99.9854	105.6873	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	97.2107	102.8751	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	81.8050	87.2273	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	15.2627	15.2667	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	12.87 Put	139,860	87.7456	88.5942	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.00 Put	49,600	106.6594	107.7433	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	249.0052	252.0392	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.80 Put	500	290.1656	293.8148	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.94 Put	139,860	335.5490	339.8473	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.00 Put	26,500	356.3118	360.8984	0.0000	0.0000	11,000	0.00
Dec 2019	ZAUS	14.07 Put	1,351	381.5400	386.4701	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.08 Put	4,150	385.2365	390.2091	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.10 Put	52,300	392.6875	397.7631	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.41 Put	49,600	528.7261	535.3113	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	15.80 Call	250	513.9606	520.1834	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.13 Call	52,300	439.0686	445.4591	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.20 Call	50,100	424.8666	431.2785	0.0000	0.0000	2,080	0.00
Dec 2019	ZAUS	16.25 Call	26,000	415.0563	421.4758	0.0000	0.0000	22,000	0.00
Dec 2019	ZAUS	16.35 Call	4,150	396.2344	402.6667	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>	
Dec 2019	ZAUS	16.37 Call	500	392.5921	399.0267	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	16.85 Call	1,351	312.4839	318.8123	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.02 Call	139,860	288.7125	294.9665	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38 Call	1,000	245.0998	251.1550	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	98.8501	103.3285	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	11.91 Put	1,000	31.9262	31.8497	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	12.96 Put	277,778	139.5681	141.1700	0.0000	0.0000	277,778	0.00	
Mar 2020	ZAUS	14.01 Put	1,000	419.7736	425.5443	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	14.40 Put	277,778	577.1552	584.7580	0.0000	0.0000	555,556	0.00	
Mar 2020	ZAUS	16.60 Call	277,778	516.3374	521.5466	0.0000	0.0000	277,778	0.00	
Mar 2020	ZAUS	17.73 Call	1,000	338.7376	343.9564	0.0000	0.0000	0	0.00	
Jun 2020	ZAUS	11.90 Put	900	52.7939	53.9495	0.0000	0.0000	0	0.00	
Jun 2020	ZAUS	14.25 Put	900	581.1338	591.3323	0.0000	0.0000	0	0.00	
Jun 2020	ZAUS	17.26 Call	900	577.5132	588.0587	0.0000	0.0000	0	0.00	
			<u>3,079,445</u>					<u>1,147,192.00</u>	<u>0.00</u>	<u>68 624 120.00</u>
		Total	<u>3,930,985</u>					<u>1,749,476.00</u>	<u>8,760,662,789.60</u>	<u>269 981 273.00</u>
										<u>2 442 662 141 238.10</u>

Grand Total	<u>6,217,225</u>			<u>1,945,220.00</u>	<u>10 150 210 184.50</u>	<u>369,234,191</u>	<u>3,385,503,293,997.52</u>
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