



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 20-March-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Mar 2019	DAEU	Future	53	16.3586	16.4230	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	16.4144	16.4786	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	16.4509	16.5152	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	87.8301	95.4010	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.65 Call	21,000	1346.1526	1401.3627	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.91 Call	15,000	1209.3831	1260.9345	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.00 Call	15,000	1165.1071	1215.3749	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.07 Call	15,000	1131.7326	1180.9933	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	2 586 095.00	12 204 137 941.00
Future											
Mar 2019	DAGB	Future	80	18.9890	19.1820	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	19.0426	19.2357	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	19.0776	19.2712	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	27	19.0871	19.2808	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	274 239.00	1 122 552 906.30
Future											
Mar 2019	DAUS	Future	15,000	14.3797	14.4457	0.0000	0.0000	10,000	143,642,000.00		
Mar 2019	DAUS	Future	35,000	14.3848	14.4508	0.0000	0.0000	15,000	217,551,000.00		
Mar 2019	DAUS	Future	10,000	14.3898	14.4559	0.0000	0.0000	10,000	145,116,000.00		
Mar 2019	DAUS	Future	3,409	14.3915	14.4576	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	10,000	14.3965	14.4626	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.3982	14.4643	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	21,000	14.4015	14.4675	0.0000	0.0000	10,000	145,043,000.00		
Apr 2019	DAUS	Future	2,025	14.4031	14.4692	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	1,830	14.4198	14.4859	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	349	14.4386	14.5049	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	15	14.4437	14.5100	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	4,791	14.4454	14.5118	0.0000	0.0000	1,166	17,013,106.00		
May 2019	DAUS	Future	303	14.4574	14.5238	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	25,000	14.4608	14.5272	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	93	14.4676	14.5341	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	387	14.4950	14.5618	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	416	14.4985	14.5652	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.5054	14.5722	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	10,000	14.5158	14.5826	0.0000	0.0000	10,000	145,200,000.00		
Jun 2019	DAUS	Future	2,607	14.5469	14.6140	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.5521	14.6193	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	682	14.6039	14.6722	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.6056	14.6739	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	1,678	14.6558	14.7253	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.6610	14.7306	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.6645	14.7342	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	3,617	14.6801	14.7502	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	53	14.7103	14.7805	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.7139	14.7841	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	108	14.7660	14.8364	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	Future	52	14.8184	14.8891	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.8239	14.8945	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.8275	14.8982	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.8798	14.9513	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.9320	15.0048	0.0000	0.0000	0	0.00		
Feb 2020	DAUS	Future	3,500	14.9835	15.0568	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.9889	15.0624	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.0457	15.1208	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.0963	15.1725	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.1601	15.2375	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.2692	15.3482	0.0000	0.0000	0	0.00		
			<u>238,044</u>					<u>56,166.00</u>	<u>813,565,106.00</u>	<u>11 772 849.00</u>	<u>146 178 048 943.00</u>
Option											
Mar 2019	DAUS	13.80 Call	30,000	580.4107	646.1478	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	14.20 Call	30,000	201.2136	258.1665	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	14.20 Put	30,000	21.5136	12.4665	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	14.53 Put	30,000	180.6056	128.5317	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	14.37 Call	20,000	103.0926	144.1794	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	14.37 Put	20,000	88.2926	63.3794	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	13.88 Put	32,000	9.0697	6.6365	0.0000	0.0000	0	0.00		

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Mar 2019	DAUS	14.00 Put	65,000	17.4403	13.1258	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.84 Call	15,000	558.5504	622.8279	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Call	6,500	410.8615	472.5344	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.18 Call	15,000	261.0188	316.5525	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.50 Put	20,000	191.9706	154.9201	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	0.1091	0.1009	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	1.2863	1.1284	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	534.6771	597.9852	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	64.5009	51.5142	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	79.3272	63.6446	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	131.0806	171.5388	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	48.8304	67.1004	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	2.9502	4.0076	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	1.1295	1.5065	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.00 Call	30,000	442.4296	498.4773	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	12.1784	8.7667	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	35,000	96.3488	76.2484	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	211.2272	248.4003	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.38 Call	20,000	251.8751	288.2016	0.0000	0.0000	2,000	0.00
Apr 2019	DAUS	14.40 Call	20,000	242.4517	277.7116	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.44 Call	20,000	225.1701	257.5811	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.45 Call	40,000	221.0214	252.7239	0.0000	0.0000	4,000	0.00
Apr 2019	DAUS	14.50 Call	50,000	224.0745	0.0000	0.0000	0.0000	50,000	0.00
Apr 2019	DAUS	13.00 Put	3,000	5.4230	5.0866	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	975.7479	1042.1518	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	166.6670	150.4529	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	187.5934	169.5953	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	155.0486	180.5482	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	46.3313	55.9431	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	26.3577	32.8828	0.0000	0.0000	0	0.00
May 2019	DAUS	13.72 Call	50,000	796.0683	859.0158	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Call	50,000	453.7669	503.7631	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Call	61,000	473.0329	520.6339	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	142.0425	161.0049	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	104.8460	119.4426	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	9.7202	9.4521	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	245.6535	225.2778	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	267.5387	245.7811	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	225.3128	248.8116	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	96.9134	107.8414	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	64.8638	72.8645	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.83 Put	45,000	130.3360	119.3965	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	14.06 Put	18,000	204.7784	188.6137	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	239.8522	221.4461	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	18,000	282.7886	261.7968	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	24.9753	25.0958	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.02 Put	29,000	218.0101	201.6229	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	290.0121	269.4161	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	312.1953	290.3871	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	263.6682	286.2509	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.33 Call	29,000	228.3274	248.0656	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	131.3360	142.6316	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	95.1147	103.8404	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	45.1385	44.3682	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	333.7958	312.1141	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	356.2114	333.4289	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	305.6577	327.2936	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	169.1346	181.0898	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	129.5323	138.4938	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	484.2017	456.4545	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	165.3259	176.0483	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	63.3173	61.0897	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	366.8999	344.7199	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	389.4222	366.2216	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	332.3662	352.7458	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	195.8905	207.7643	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	154.3169	163.3260	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	60.7225	61.6102	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	80.0624	76.7937	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	395.5039	373.0474	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	418.0835	394.6532	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	362.6553	382.6111	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	224.6482	236.4533	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	179.6370	188.6446	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	95.8875	91.2065	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	423.1058	400.6673	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	445.8572	422.4400	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	389.1355	408.1463	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	251.1884	262.9551	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	205.5525	214.6921	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	108.3408	102.5236	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	445.4764	422.6579	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	468.2678	444.5123	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	414.0857	432.6350	0.0000	0.0000	0	0.00

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Nov 2019	DAUS	16.87 Call	250	275.0473	287.1229	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	228.9125	238.4672	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	119.4497	112.9337	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	466.5207	444.2032	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	489.2817	466.0848	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	437.9493	456.7167	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	300.1237	312.8056	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	253.7848	264.0116	0.0000	0.0000	0	0.00		
			960,794					56,000.00	0.00	24 150 229.00	0.00
	Total		1,198,838					112,166.00	813,565,106.00	35 923 078.00	146 178 048 943.00
Future											
Jun 2019	EUUS	Future	5	1.1440	1.1432	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	1.3244	1.3318	0.0000	0.0000	0	0.00		
Dec 2019	GBUS	Future	2,219	1.3356	1.3429	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	10.3164	10.3759	0.0000	0.0000	0	0.00		
Sep 2019	ZAAD	Future	1,731	10.4515	10.5135	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.5846	10.6477	0.0000	0.0000	0	0.00		
			19,694					0.00	0.00	3 867 431.00	33 912 327 352.60
Option											
Dec 2019	ZAAD	11.00 Call	1,000	284.9711	307.3762	0.0000	0.0000	0	0.00		
			1,000					0.00	0.00	34 377.00	0.00
	Total		20,694					0.00	0.00	3 901 808.00	33 912 327 352.60
Future											
Jun 2019	ZACA	Future	1,150	10.9093	11.0195	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	400	11.0553	11.1691	0.0000	0.0000	0	0.00		
			1,550					0.00	0.00	154 413.00	1 535 524 025.10
	Total		1,550					0.00	0.00	154 413.00	1 535 524 025.10
Future											
Jun 2019	ZADK	Future	450	2.2273	2.2363	2.2398	2.2398	200	4,479,600.00		
			450					200.00	4,479,600.00	13 825.00	298 500 189.00

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Total			450					200.00	4,479,600.00	13 825.00	298 500 189.00
Future											
Jun 2019	ZAEU	Future	121,707	16.6141	16.6793	16.7649	16.6800	7,524	125,381,768.00		
Sep 2019	ZAEU	Future	42,738	16.9314	17.0008	16.9849	16.9849	250	4,246,225.00		
Dec 2019	ZAEU	Future	32,686	17.2384	17.3097	0.0000	0.0000	0	0.00		
Mar 2020	ZAEU	Future	4,361	17.5756	17.6527	0.0000	0.0000	0	0.00		
			<u>201,492</u>					<u>7,774.00</u>	<u>129,627,993.00</u>	<u>16 663 010.00</u>	<u>241 701 426 916.10</u>
Option											
Jun 2019	ZAEU	15.35 Put	570	48.6187	44.4365	0.0000	0.0000	0	0.00		
Jun 2019	ZAEU	16.64 Call	300	443.4617	480.0796	0.0000	0.0000	0	0.00		
Jun 2019	ZAEU	16.73 Put	500	523.8648	0.0000	0.0000	0.0000	500	0.00		
Sep 2019	ZAEU	15.62 Put	14,429	155.5771	148.8118	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.27 Call	14,429	299.5080	320.0265	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	40,000	247.4337	264.5682	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	23.1833	23.3217	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	14.09 Put	136,646	35.2730	34.0883	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	15.70 Put	136,646	218.5590	211.2621	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	344.8911	333.3029	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	19.79 Call	136,646	271.5962	287.1558	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	194.6260	205.6928	0.0000	0.0000	0	0.00		
			<u>531,616</u>					<u>500.00</u>	<u>0.00</u>	<u>11 700 413.00</u>	<u>0.00</u>
Total			733,108					8,274.00	129,627,993.00	28 363 423.00	241 701 426 916.10
Future											
Jun 2019	ZAFR	Future	1,193	14.6787	14.7152	14.7361	14.7361	100	1,473,610.00		
Sep 2019	ZAFR	Future	100	14.9740	15.0139	0.0000	0.0000	0	0.00		
			<u>1,293</u>					<u>100.00</u>	<u>1,473,610.00</u>	<u>631 602.00</u>	<u>6 826 702 725.90</u>
Total			1,293					100.00	1,473,610.00	631 602.00	6 826 702 725.90
Future											
Jun 2019	ZAGB	Future	198,404	19.2341	19.4297	19.4275	19.2064	3,026	58,277,750.70		
Sep 2019	ZAGB	Future	20,179	19.5359	19.7377	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	Future	12,846	19.8256	20.0292	0.0000	0.0000	0	0.00		
Mar 2020	ZAGB	Future	4,674	20.1390	20.3492	0.0000	0.0000	0	0.00		
			<u>236,103</u>					<u>3,026.00</u>	<u>58,277,750.70</u>	<u>14 554 803.00</u>	<u>250 058 221 113.60</u>
Option											
Jun 2019	ZAGB	18.00 Call	1,000	1358.0049	1526.7710	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	18.75 Put	500	508.4881	454.1326	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	22.13 Call	500	341.5277	386.2402	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			238,103					3,026.00	58,277,750.70	16 345 116.00	250 058 221 113.60	
Future												
	Jun 2019	ZAKS	Future	2,166	0.1419	0.1427	0.0000	0.0000	0	0.00		
				<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	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	10.0859	10.1652	0.0000	0.0000	0	0.00		
				<u>646</u>					<u>0.00</u>	<u>0.00</u>	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	2.5273	2.5360	0.0000	0.0000	0	0.00		
				<u>30,000</u>					<u>0.00</u>	<u>0.00</u>	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	14.5227	14.5896	0.0000	0.0000	0	0.00		
				<u>470</u>					<u>0.00</u>	<u>0.00</u>	156 693.00	182 148 505 290.00
			Total	470					0.00	0.00	161 216.00	182 148 505 290.00
Future												
	Jun 2019	ZAUS	Future	814,362	14.5227	14.5896	14.6873	14.5144	109,221	1,595,770,585.90		
	Sep 2019	ZAUS	Future	28,207	14.6853	14.7555	14.7350	14.7350	134	1,976,530.00		
	Dec 2019	ZAUS	Future	22,743	14.8439	14.9146	0.0000	0.0000	0	0.00		
	Mar 2020	ZAUS	Future	10,345	15.0141	15.0885	0.0000	0.0000	4,075	59,550,012.50		
	Jun 2020	ZAUS	Future	700	15.1789	15.2566	0.0000	0.0000	0	0.00		
				<u>876,357</u>					<u>113,430.00</u>	<u>1,657,297,128.40</u>	201 470 583.00	2 444 319 438 366.50
Option												
	Jun 2019	ZAUS	10.69 Put	1,000	0.2953	0.2932	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	12.28 Put	1,000	5.9644	6.6157	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	12.65 Put	1,050	9.5763	10.8898	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	12.75 Put	1,000	10.9425	12.5087	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	12.92 Put	2,100	13.8112	15.8995	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	12.98 Put	911	15.0230	17.3280	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	13.00 Put	165,703	15.4542	17.8355	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	13.10 Put	14,000	19.7183	20.6283	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	13.24 Put	30,000	30.9745	29.2447	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	13.25 Put	4,582	31.9362	30.1257	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUS	13.28 Put	122,704	34.9606	0.0000	0.0000	0.0000	122,704	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	13.30 Put	143,800	37.0957	34.8420	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.35 Put	4,317	42.8659	40.1097	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	7,500	1086.9489	1149.1993	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	1004.9780	1065.6295	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Put	700	82.2780	76.0295	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	136.8804	125.8589	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	780.2739	834.5710	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.91 Put	1,000	160.6869	147.8679	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	726.2952	778.8125	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	23,500	713.2007	765.2599	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	190.5007	175.6599	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.06 Put	2,100	212.1901	195.9381	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	215.9466	199.4533	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	268.4903	248.7829	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,982	290.5287	269.5455	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	313.5730	291.3008	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	510.3204	553.6442	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	475.6456	517.1298	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.44 Put	31,500	383.3890	357.4484	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	405.4832	440.7339	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	493.4333	459.9797	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	505.9390	471.9737	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.72 Call	122,704	353.4958	0.0000	0.0000	0.0000	122,704	0.00
Jun 2019	ZAUS	14.75 Call	1,000	343.2212	373.6465	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	320.3675	349.1041	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	17,500	268.3104	292.9758	0.0000	0.0000	100	0.00
Jun 2019	ZAUS	15.10 Call	2,900	243.1849	265.7737	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	199.8815	218.8313	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	195.9866	214.5943	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	146,182	164.3372	180.1044	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.58 Call	1,380	152.0685	0.0000	0.0000	0.0000	1,380	0.00
Jun 2019	ZAUS	15.60 Call	143,800	149.1584	163.5177	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	143.5180	157.3439	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.73 Call	122,704	131.6589	0.0000	0.0000	0.0000	122,704	0.00
Jun 2019	ZAUS	15.80 Call	1,000	123.1807	135.0563	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	113.1543	124.0481	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	110.0182	120.6028	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	5,020	101.6793	111.9167	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	92.8189	102.6338	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	12.3310	14.4445	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	4.2606	4.0836	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	34.6375	33.1823	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	12.87 Put	9,783	59.7200	58.2052	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.02 Put	17,287	73.6891	72.1893	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.15 Put	11,333	87.9752	86.5010	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	102.3428	99.0576	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.65 Call	5,666	1224.2230	1284.4928	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.70 Put	2,000	202.4764	191.7558	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.77 Put	28,500	222.5390	210.6580	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	287.5628	271.5440	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.00 Put	1,000	298.9990	281.5781	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.12 Put	177	347.4038	327.4426	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	386.4755	364.5722	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.30 Put	9,783	427.8935	404.0111	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.36 Put	111	456.7889	431.5784	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.46 Put	17,287	507.1988	479.7612	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.50 Call	14,000	713.4389	755.3040	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.65 Put	3,000	610.4843	578.8147	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.70 Put	1,000	639.2441	606.4698	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.85 Put	3,000	731.2380	694.6967	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.00 Call	750	513.8911	544.6179	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.03 Call	177	503.9681	534.1308	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.16 Call	111	463.1976	490.9630	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1096.5595	1050.3394	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.51 Call	28,500	370.0936	391.6814	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1233.3459	1183.9968	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	295.9575	312.6532	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.12 Call	17,287	139.4594	146.4710	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.18 Call	9,783	134.7627	141.4596	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	130.9929	137.4353	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	105.1559	109.1252	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	97.5711	99.9854	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	94.9478	97.2107	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	80.3543	81.8050	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	15.4307	15.2627	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	12.87 Put	139,860	92.9821	87.7456	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.00 Put	49,600	112.6569	106.6594	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	261.0804	249.0052	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.80 Put	500	304.2274	290.1656	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.94 Put	139,860	351.7292	335.5490	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.00 Put	26,500	373.4325	356.3118	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.07 Put	1,351	399.7891	381.5400	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.08 Put	4,150	403.6418	385.2365	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.10 Put	52,300	411.4244	392.6875	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	14.41 Put	49,600	554.6406	528.7261	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	15.80 Call	250	491.5053	513.9606	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.13 Call	52,300	420.3605	439.0686	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.20 Call	50,100	406.8884	424.8666	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.25 Call	26,000	397.5842	415.0563	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.35 Call	4,150	379.7357	396.2344	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.37 Call	500	376.0818	392.5921	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	299.4666	312.4839	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.02 Call	139,860	276.8369	288.7125	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	235.3414	245.0998	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	94.5310	98.8501	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	31.6069	31.9262	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	12.96 Put	277,778	146.7527	139.5681	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	13.06 Put	275,862	166.1671	0.0000	0.0000	0.0000	275,862	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	438.4464	419.7736	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.40 Put	277,778	604.9767	577.1552	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.51 Put	275,862	660.0134	0.0000	0.0000	0.0000	275,862	0.00		
Mar 2020	ZAUS	16.60 Call	277,778	497.1758	516.3374	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	16.81 Call	275,862	458.5465	0.0000	0.0000	0.0000	275,862	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	327.4866	338.7376	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	11.90 Put	900	53.6205	52.7939	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	14.25 Put	900	603.4539	581.1338	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	17.26 Call	900	556.0651	577.5132	0.0000	0.0000	0	0.00		
			<u>4,276,523</u>					<u>1,197,178.00</u>	<u>0.00</u>	<u>69 821 298.00</u>	<u>0.00</u>
Total			<u>5,152,880</u>					<u>1,310,608.00</u>	<u>1,657,297,128.40</u>	<u>271 291 881.00</u>	<u>2 444 319 438 366.50</u>
Grand Total			<u>7,491,155</u>					<u>1,434,374.00</u>	<u>2 664 721 188.10</u>	<u>370,668,565</u>	<u>3,388,168,015,185.62</u>