



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 28-February-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Feb 2019	DAEU	Future	0	15.9364	15.8440	0.0000	0.0000	29	462,155.60
Mar 2019	DAEU	Future	53	16.0293	15.9367	0.0000	0.0000	0	0.00
Apr 2019	DAEU	Future	4	16.0850	15.9917	0.0000	0.0000	0	0.00
Apr 2019	DAEU	Future	1	16.1210	16.0273	0.0000	0.0000	0	0.00
			<u>58</u>					<u>29.00</u>	<u>462,155.60</u>
									<u>816 108.00</u>
									<u>12 204 137 941.00</u>
Option									
Aug 2019	DAEU	19.65 Call	62,400	101.5648	95.1529	0.0000	0.0000	0	0.00
Feb 2020	DAEU	16.65 Call	21,000	1212.3732	1160.5687	0.0000	0.0000	0	0.00
Feb 2020	DAEU	16.91 Call	15,000	1095.3984	1047.8948	0.0000	0.0000	0	0.00
Feb 2020	DAEU	17.00 Call	15,000	1057.6658	1011.5979	0.0000	0.0000	0	0.00
Feb 2020	DAEU	17.07 Call	15,000	1029.2635	984.2347	0.0000	0.0000	0	0.00
			<u>128,400</u>					<u>0.00</u>	<u>0.00</u>
									<u>1 749 987.00</u>
									<u>0.00</u>
		Total	128,458					29.00	462,155.60
									2 566 095.00
									12 204 137 941.00
Future									
Feb 2019	DAGB	Future	0	18.6153	18.5474	0.0000	0.0000	47	874,919.10
Mar 2019	DAGB	Future	80	18.7062	18.6385	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	43	18.7603	18.6922	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	120	18.7953	18.7269	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	27	18.8049	18.7364	0.0000	0.0000	0	0.00
			<u>270</u>					<u>47.00</u>	<u>874,919.10</u>
									<u>66 924.00</u>
									<u>1 122 514 463.30</u>
		Total	270					47.00	874,919.10
									274 237.00
									1 122 514 463.30
Future									
Feb 2019	DAUS	Future	0	13.9998	13.9209	0.0000	0.0000	2,314	32,394,525.20
Mar 2019	DAUS	Future	74	14.0062	13.9274	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	10,080	14.0078	13.9290	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	14.0439	13.9652	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,708	14.0472	13.9685	0.0000	0.0000	600	8,415,060.00
Apr 2019	DAUS	Future	55	14.0539	13.9752	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	24,000	14.0573	13.9785	0.0000	0.0000	24,000	337,447,200.00
Apr 2019	DAUS	Future	260	14.0760	13.9969	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	349	14.0946	14.0152	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	15	14.0997	14.0202	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	2,426	14.1014	14.0219	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	25,000	14.1167	14.0375	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	93	14.1236	14.0444	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	387	14.1510	14.0722	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	416	14.1545	14.0756	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	74	14.1615	14.0826	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	2,140	14.2041	14.1249	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	14.2094	14.1302	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	682	14.2628	14.1831	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	14.2645	14.1849	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	1,678	14.3156	14.2359	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	14.3210	14.2412	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	74	14.3245	14.2448	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	53	14.3711	14.2909	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.3746	14.2945	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	108	14.4258	14.3460	0.0000	0.0000	0	0.00
Nov 2019	DAUS	Future	52	14.4766	14.3979	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	14.4820	14.4033	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	321	14.4857	14.4069	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.5388	14.4590	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.5905	14.5118	0.0000	0.0000	0	0.00
Feb 2020	DAUS	Future	3,500	14.6407	14.5619	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	14.6462	14.5675	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.7037	14.6255	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.7538	14.6760	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	14.8169	14.7397	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	14.9228	14.8460	0.0000	0.0000	0	0.00
			<u>164,881</u>					<u>26,914.00</u>	<u>378,256,785.20</u>
									<u>11 275 483.00</u>
									<u>139 034 215 792.70</u>
Option									
Mar 2019	DAUS	13.40 Call	50,000	609.6404	533.5222	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	100,000	2.5524	6.0868	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.50 Call	50,000	511.3427	437.1898	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Call	100,000	320.8567	255.3234	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Put	100,000	13.0567	26.3234	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Put	25,000	26.3995	41.4176	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	94.9043	131.4672	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	1.6483	1.3923	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.80 Call	30,000	332.9708	276.9398	0.0000	0.0000	0	0.00

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Mar 2019	DAUS	14.20 Call	30,000	140.6980	109.8392	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	149.6187	171.4302	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	205.2741	234.7340	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.84 Call	15,000	343.8406	284.2648	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Call	6,500	255.7653	205.4405	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	10.0698	9.0534	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	38.0794	44.1008	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	332.4524	273.7719	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	333.6295	374.4029	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	367.4094	410.8249	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	123.6798	95.6662	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	73.3666	55.5148	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	15.5325	11.3590	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	7.0323	4.7313	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.00 Call	30,000	292.2147	241.1955	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	135.4363	153.0022	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	167.2404	135.2075	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	26.0485	32.1315	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	711.6881	651.4790	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	405.2381	451.7660	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	436.8710	485.1326	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	137.9279	121.9720	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	51.4269	45.3461	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	31.3239	28.1453	0.0000	0.0000	0	0.00
May 2019	DAUS	13.72 Call	50,000	589.5635	539.7227	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Call	50,000	344.0794	312.3610	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Call	61,000	370.8263	339.2834	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	133.3193	122.5599	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	103.8075	95.5630	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	58.7919	69.5850	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	481.4951	524.8042	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	511.7869	556.5863	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	204.9740	188.4366	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	99.9066	92.4305	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	71.5218	66.7101	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.83 Put	45,000	305.1271	336.3159	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.06 Put	18,000	416.7670	454.2617	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	465.5605	506.4926	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	18,000	524.8107	568.5930	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	81.2393	93.4676	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	519.3277	560.4138	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	548.9385	591.3295	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	15.17 Call	500	242.1289	224.3142	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	130.5401	121.4552	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	98.5535	92.1564	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	105.9188	119.3229	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	555.9021	593.7629	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	584.4225	623.9330	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	282.2462	263.4088	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	164.4309	153.6383	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	129.1091	121.0838	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	736.6852	780.6883	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	161.2339	151.2292	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	127.3257	141.4515	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	584.0653	620.2805	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	612.2528	649.3441	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	309.7058	290.8131	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	189.1125	177.5035	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	151.4473	142.6008	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	52.4371	50.2387	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	146.8917	162.4218	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	608.1319	645.2348	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	636.0856	674.0971	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	341.2392	323.0308	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	217.2459	205.5319	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	176.3703	167.3709	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	166.4330	183.1457	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	630.9658	668.6096	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	658.7046	697.2182	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	365.4142	347.5581	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	241.0213	229.8110	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	200.0499	191.0800	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	184.0173	200.8692	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	650.0193	686.8234	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	677.5706	715.2002	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	387.9654	370.1960	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	263.7556	251.9761	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	222.5221	212.7843	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	199.7023	219.0111	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	666.8406	704.5263	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	694.1550	732.6529	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	411.1264	393.1533	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.05 Call	250	288.3372	276.3640	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.44 Call	250	246.7042	238.4364	0.0000	0.0000	0	0.00

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			1,062,794					0.00	0.00	23 525 913.00	0.00
		Total	1,227,675					26,914.00	378,256,785.20	34 801 396.00	139 034 215 792.70
Future											
Mar 2019	EUUS	Future	5	1.1400	1.1398	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1485	1.1483	0.0000	0.0000	0	0.00		
			587					0.00	0.00	745 402.00	8 456 173 900.00
		Total	587					0.00	0.00	745 402.00	8 456 173 900.00
Future											
Mar 2019	GBUS	Future	5	1.3309	1.3335	0.0000	0.0000	0	0.00		
Dec 2019	GBUS	Future	2,219	1.3482	1.3508	0.0000	0.0000	0	0.00		
			2,224					0.00	0.00	176 160.00	2 268 523 867.00
		Total	2,224					0.00	0.00	176 160.00	2 268 523 867.00
Future											
Mar 2019	ZAAD	Future	4,731	9.9892	9.9645	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	15,741	10.1084	10.0834	0.0000	0.0000	0	0.00		
Sep 2019	ZAAD	Future	513	10.2420	10.2161	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.3692	10.3435	0.0000	0.0000	0	0.00		
			21,385					0.00	0.00	3 850 497.00	33 738 285 873.60
Option											
Dec 2019	ZAAD	11.00 Call	1,000	258.0299	249.7320	0.0000	0.0000	0	0.00		
			1,000					0.00	0.00	34 377.00	0.00
		Total	22,385					0.00	0.00	3 884 874.00	33 738 285 873.60
Future											
Mar 2019	ZACA	Future	500	10.6477	10.6183	0.0000	0.0000	0	0.00		
Jun 2019	ZACA	Future	400	10.7838	10.7540	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	400	10.9318	10.9017	0.0000	0.0000	0	0.00		
			1,300					0.00	0.00	150 863.00	1 496 897 890.10
		Total	1,300					0.00	0.00	150 863.00	1 496 897 890.10
Future											
Jun 2019	ZADK	Future	250	2.1840	2.1714	0.0000	0.0000	0	0.00		
			250					0.00	0.00	13 625.00	294 020 589.00
		Total	250					0.00	0.00	13 625.00	294 020 589.00
Future											
Mar 2019	ZAEU	Future	137,026	15.9935	15.9010	15.9851	15.9525	653	10,436,217.90		
Jun 2019	ZAEU	Future	29,914	16.2845	16.1910	0.0000	0.0000	0	0.00		

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Sep 2019	ZAEU	Future	21,948	16.6062	16.5104	0.0000	0.0000	370	6,148,105.00		
Dec 2019	ZAEU	Future	17,761	16.9122	16.8160	0.0000	0.0000	0	0.00		
			<u>206,649</u>					<u>1,023.00</u>	<u>16,584,322.90</u>	<u>16 218 184.00</u>	<u>234 361 566 000.60</u>
Option											
Mar 2019	ZAEU	16.00 Call	650	183.6202	140.8753	0.0000	0.0000	0	0.00		
Jun 2019	ZAEU	15.35 Put	570	141.9869	162.1824	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	15.62 Put	14,429	275.5281	302.6514	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.27 Call	14,429	298.8292	280.9777	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	250.4185	235.6999	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	33.3545	38.6628	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	501.6441	538.8919	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	220.2119	214.8382	0.0000	0.0000	0	0.00		
			<u>136,528</u>					<u>0.00</u>	<u>0.00</u>	<u>11 001 383.00</u>	<u>0.00</u>
	Total		343,177					1,023.00	16,584,322.90	27 219 567.00	234 361 566 000.60
Future											
Mar 2019	ZAFR	Future	1,243	14.1032	13.9895	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	250	14.3728	14.2577	0.0000	0.0000	0	0.00		
			<u>1,493</u>					<u>0.00</u>	<u>0.00</u>	<u>627 180.00</u>	<u>6 762 982 219.60</u>
	Total		1,493					0.00	0.00	627 180.00	6 762 982 219.60
Future											
Mar 2019	ZAGB	Future	230,812	18.6711	18.6034	18.6400	18.6075	9,640	179,497,436.10		
Jun 2019	ZAGB	Future	5,703	18.9538	18.8857	18.9478	18.9478	2	37,895.60		
Sep 2019	ZAGB	Future	18,254	19.2624	19.1925	19.1980	19.1944	410	7,869,868.00		
Dec 2019	ZAGB	Future	12,565	19.5522	19.4820	19.4770	19.4770	500	9,738,500.00		
			<u>267,334</u>					<u>10,552.00</u>	<u>197,143,699.70</u>	<u>14 066 447.00</u>	<u>240 792 233 663.20</u>
Option											
Mar 2019	ZAGB	18.00 Put	500	38.0224	48.7072	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	114.2658	93.1512	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	591.4052	644.4704	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	12.1555	10.2325	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	9.1155	7.8669	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	1.5549	1.3931	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	18.00 Call	1,000	1193.8264	1142.3639	0.0000	0.0000	0	0.00		
			<u>7,500</u>					<u>0.00</u>	<u>0.00</u>	<u>1 784 813.00</u>	<u>0.00</u>
	Total		274,834					10,552.00	197,143,699.70	15 851 260.00	240 792 233 663.20
Future											
Mar 2019	ZAJY	Future	10,000	0.1263	0.1261	0.0000	0.0000	0	0.00		
			<u>10,000</u>					<u>0.00</u>	<u>0.00</u>	<u>1 091 937.00</u>	<u>12 363 272 053.60</u>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
		Total	10,000					0.00	0.00	1 091 937.00	12 363 272 053.60	
Future												
	Jun 2019	ZAKS	Future	2,166	0.1395	0.1389	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	9.8113	9.8042	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												
	Mar 2019	ZATR	Future	25,000	2.6079	2.6009	0.0000	0.0000	0	0.00		
				<u>25,000</u>					<u>0.00</u>	<u>0.00</u>	445 935.00	1 387 108 669.90
			Total	25,000					0.00	0.00	445 935.00	1 387 108 669.90
Future												
	Mar 2019	ZAUM	Future	440	14.0291	13.9504	0.0000	0.0000	0	0.00		
				<u>440</u>					<u>0.00</u>	<u>0.00</u>	155 753.00	180 777 573 190.00
			Total	440					0.00	0.00	160 276.00	180 777 573 190.00
Future												
	Mar 2019	ZAUS	Future	776,647	14.0291	13.9504	14.0303	13.9622	39,867	557,579,060.10		
	Jun 2019	ZAUS	Future	110,130	14.1793	14.1002	14.1862	14.1192	2,468	34,863,433.10		
	Sep 2019	ZAUS	Future	22,822	14.3460	14.2661	14.3125	14.3125	5	71,562.50		
	Dec 2019	ZAUS	Future	10,863	14.5021	14.4230	0.0000	0.0000	0	0.00		
	Mar 2020	ZAUS	Future	4,566	14.6722	14.5937	0.0000	0.0000	0	0.00		
				<u>925,028</u>					<u>42,340.00</u>	<u>592,514,055.70</u>	196 943 184.00	2 378 787 966 282.70
Option												
	Mar 2019	ZAUS	10.33 Put	1,000	0.0148	0.0000	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	11.74 Put	1,000	0.0768	0.0805	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.47 Put	721	0.6699	0.7474	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.51 Put	720	0.7594	0.8506	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.80 Put	7,520	1.7539	1.9411	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.90 Put	16,000	2.3050	2.6076	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.92 Put	139,342	2.4374	2.7697	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.00 Put	15,434	3.0609	3.5407	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.05 Put	1,155	3.5418	4.1433	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.12 Put	138,000	4.3654	5.1882	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.15 Put	10,125	4.7832	5.7232	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	13.25 Put	225,407	6.5382	8.0063	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	8.4715	12.7350	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	9.6116	15.0275	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	17.1345	25.2650	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Call	0	550.3469	481.0843	0.0000	0.0000	145	0.00
Mar 2019	ZAUS	13.50 Put	7,550	21.2469	30.6843	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	27.4591	38.7152	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Call	500	464.1204	398.7015	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	35.0204	48.3015	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	38.4604	52.6081	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	50.3429	67.2785	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	54.8576	72.7835	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	59.6653	78.6106	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	78.9258	101.6530	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.82 Put	2,100	88.3986	112.8370	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	98.6335	124.8322	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	102.2179	129.0132	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	117.4351	146.6612	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	217.5675	171.2116	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	190.8654	150.3873	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	29,200	161.7654	199.9873	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	182.0359	224.9205	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	112.2897	87.5597	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	98.0519	76.1709	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	341.2119	399.6242	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	85.4664	66.1910	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	356.3664	415.7910	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	395.2815	457.0684	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	468.6434	534.0981	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	477.0307	542.8482	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	54.5602	42.0338	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	51.5458	39.7042	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	48.6921	37.5032	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	519.5921	587.1032	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	545.5960	614.0283	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	571.9199	641.2067	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	652.5844	724.0688	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	735.3638	808.0074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	20.3892	15.2006	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	800.6716	874.3217	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	810.0723	883.8577	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	819.4907	893.4075	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.84 Put	134,750	828.9259	902.9715	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	10.9841	7.9833	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1020.6014	1096.6142	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1078.9528	1155.3761	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1098.4683	1175.0141	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1108.2372	1184.8417	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	6.4815	4.6054	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1166.9920	1243.9170	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1176.8064	1253.7797	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	5.5521	3.9180	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	5.0604	3.5564	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1294.9786	1372.4384	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	3.1913	2.2869	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	2.7410	2.0347	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	2.6775	1.9883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	3,050	2.4397	1.8145	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	2.2262	1.6583	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	1.7056	1.2770	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	1.2442	0.9379	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	1.1947	0.9014	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	1.0598	0.8018	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	0.8574	0.6521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	0.6758	0.5173	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	0.6189	0.4749	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	0.5050	0.3898	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	0.4435	0.3437	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	0.3271	0.2560	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	0.3178	0.2490	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	0.2112	0.1977	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	0.2099	0.1975	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	0.2040	0.1966	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	0.1974	0.1957	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	0.1964	0.1956	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	0.1953	0.1955	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	0.1832	0.1945	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	0.1775	0.1943	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	0.1639	0.1951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	0.1427	0.2042	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	0.0915	0.1106	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	1.3759	1.7095	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	19.4842	22.1786	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	33.3749	38.3235	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	12.75 Put	1,000	38.6235	46.6363	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	67.0883	78.5186	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	70.1528	81.9089	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.10 Put	14,000	87.0498	100.4936	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	115.4244	131.3906	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	117.6753	133.8262	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.30 Put	143,800	129.3896	146.4840	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.35 Put	4,317	141.8905	159.9461	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	7,500	864.4375	807.6411	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	798.7677	744.5411	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	312.3144	343.2090	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	623.6992	577.3243	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	582.5110	538.2131	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	23,500	572.5685	528.7824	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	393.2685	428.5824	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	429.5594	466.6646	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	501.3713	543.7395	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	531.3231	575.0602	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	562.0688	607.1438	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	422.8835	390.1724	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	398.2634	367.3305	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	347.1604	320.0579	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	783.2752	836.3986	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	797.6185	851.1814	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	282.6333	260.5985	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	17,500	242.3833	223.6246	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	222.6367	205.5664	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	188.1408	174.0703	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	185.0231	171.2292	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	145,182	159.4063	147.8814	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.60 Call	143,800	146.8985	135.6982	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	141.8856	131.1304	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	123.5697	114.4555	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	114.3903	106.1027	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	111.4958	103.4680	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	104.1580	96.7913	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	96.5247	89.8447	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	21.1697	23.0585	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	6.0913	6.1520	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	66.4872	73.9280	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.15 Put	11,333	172.9855	190.1993	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	199.5276	218.1134	0.0000	0.0000	0	0.00

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Sep 2019	ZAUS	13.65 Call	5,666	1027.7771	974.6876	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.70 Put	2,000	352.4624	380.2112	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.77 Put	28,500	382.6062	411.6683	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	476.2478	509.0057	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.00 Put	1,000	491.2334	524.5378	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.12 Put	177	553.5681	589.0192	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	602.7618	639.7885	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.50 Call	14,000	621.1887	584.5224	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.65 Put	3,000	872.1016	918.2870	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.00 Call	750	461.7964	434.3739	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.03 Call	177	453.7301	426.9187	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1405.3605	1463.8635	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.51 Call	28,500	345.2477	325.6009	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1549.7804	1610.6742	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	282.4250	265.5657	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	131.4020	126.4497	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	111.1962	107.9977	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	102.6457	100.1833	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	99.6599	97.4529	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	82.7609	81.9852	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	30.0924	32.7292	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	401.0583	427.1771	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.80 Put	500	458.1245	489.2370	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	588.8956	624.3933	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.20 Call	500	382.2850	364.9459	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	286.6927	274.2628	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	229.4118	221.4270	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	80.3720	76.0575	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	27.6996	33.7410	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	609.9063	645.5932	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	323.6199	315.6184	0.0000	0.0000	0	0.00		
			<u>5,059,799</u>					<u>145.00</u>	<u>0.00</u>	<u>65 615 410.00</u>	<u>0.00</u>
	Total		5,984,827					42,485.00	592,514,055.70	262 558 594.00	2 378 787 966 282.70
	Grand Total		8,025,732					81,050.00	1 185 835 938.20	359,531,791	3,298,899,107,314.73