



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 22-January-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
<b>Future</b>											
Feb 2019	DAEU	Future	29	15.8789	15.8716	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	15.9732	15.9655	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	16.0297	16.0226	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	16.0663	16.0595	0.0000	0.0000	0	0.00		
			<b>87</b>					<b>0.00</b>	<b>0.00</b>	<b>816 050.00</b>	<b>12 203 231 036.50</b>
<b>Option</b>											
Feb 2019	DAEU	15.80 Put	25,000	210.5423	227.2584	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	16,200	1109.0251	1128.9024	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	134.9191	142.3929	0.0000	0.0000	0	0.00		
			<b>103,600</b>					<b>0.00</b>	<b>0.00</b>	<b>1 560 587.00</b>	<b>0.00</b>
<b>Total</b>			<b>103,687</b>					<b>0.00</b>	<b>0.00</b>	<b>2 376 637.00</b>	<b>12 203 231 036.50</b>
<b>Future</b>											
Jan 2019	DAGB	Future	27	17.9774	17.8598	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	18.0620	17.9445	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.1508	18.0325	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	18.2035	18.0853	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	18.2378	18.1196	0.0000	0.0000	0	0.00		
			<b>317</b>					<b>0.00</b>	<b>0.00</b>	<b>66 675.00</b>	<b>1 118 086 763.20</b>
<b>Total</b>			<b>317</b>					<b>0.00</b>	<b>0.00</b>	<b>273 988.00</b>	<b>1 118 086 763.20</b>
<b>Future</b>											
Jan 2019	DAUS	Future	51	13.8869	13.8643	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,018	13.8950	13.8724	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,922	13.8966	13.8741	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.9177	13.8954	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.9210	13.8987	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	13.9374	13.9154	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,899	13.9423	13.9203	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	13.9490	13.9269	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	DAUS	Future	80	13.9506	13.9285	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	13.9871	13.9649	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	4,228	13.9905	13.9683	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	13.9971	13.9750	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	260	14.0189	13.9971	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	349	14.0375	14.0160	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	345	14.0444	14.0230	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	238	14.0981	14.0769	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	74	14.1051	14.0838	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	333	14.1467	14.1254	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	14.1519	14.1306	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	14.2057	14.1853	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	14.2626	14.2425	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	74	14.2662	14.2461	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.3158	14.2964	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.3675	14.3483	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	14.4255	14.4056	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	321	14.4292	14.4092	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.4815	14.4613	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.5339	14.5138	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	14.5910	14.5710	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.6481	14.6283	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.6981	14.6786	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	14.7622	14.7435	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	14.8685	14.8509	0.0000	0.0000	0	0.00
			<u>104,803</u>					<u>0.00</u>	<u>0.00</u>
									<u>11 033 559.00</u>
									<u>135 668 927 596.60</u>
<b>Option</b>									
Jan 2019	DAUS	13.00 Put	500	1.3873	2.0157	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.80 Put	600	84.6505	103.0547	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.95 Put	731	154.4458	180.5473	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	731	83.1368	87.1087	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Call	600	35.9373	39.3449	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	339.3373	365.2449	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	382.2038	407.7277	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	15.9627	17.9705	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.55 Call	600	7.2261	8.2205	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	1.0441	1.4950	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	0.3743	0.5169	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.87 Put	22,000	186.6793	210.2409	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	19.7727	23.0559	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	156.1601	175.0443	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	431.1748	457.4344	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>
Feb 2019	DAUS	14.25 Call	600	159.0851	163.5288	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	466.7851	493.2288	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	98.8298	103.4554	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	65.1049	69.0673	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	24.7262	27.2047	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	11.8009	13.1514	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	295.4703	319.1540	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	50.6354	53.8745	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	304.1241	326.9168	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	367.1148	392.3786	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	43.1093	53.1834	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	137.7077	154.5124	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	425.0285	425.8153	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	495.8985	522.7601	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	529.2213	556.3075	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	224.9993	230.3386	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	161.9118	167.3381	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	63.0103	66.5768	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	38.7348	41.7826	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	267.8444	290.4526	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	263.2309	269.1644	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	80.2502	92.5064	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	758.9652	757.7450	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	551.2774	579.7256	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	583.2156	611.8679	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	216.6332	224.3644	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	105.3681	111.0851	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	75.5336	80.4350	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	114.3386	127.4905	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	599.8115	625.8678	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	630.7985	657.0984	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	264.7444	271.0049	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	145.2084	150.0380	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	109.8399	113.9803	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	142.8928	156.6061	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	636.0055	660.7707	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	666.3240	691.3258	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	300.2378	305.3354	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	176.2171	180.2275	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	138.1355	141.6058	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	278.0107	296.0822	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	134.6023	137.8390	0.0000	0.0000	0	0.00

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Jul 2019	DAUS	13.00 Put	500	173.1283	186.8498	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.20 Put	250	672.3653	695.7484	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	702.0934	725.7017	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	341.1273	345.9719	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	212.1344	216.0300	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.50 Call	250	171.5642	174.9643	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,147	857.4414	881.8349	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,147	209.2243	212.6719	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	197.0634	211.1614	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.20 Put	250	701.3193	724.2455	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	730.5412	753.7090	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	371.2484	376.2659	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	241.0454	245.0316	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	198.7068	202.1003	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	79.1576	80.0466	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	219.1970	233.4418	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	726.1637	748.3703	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	755.1482	777.5684	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	403.0679	408.1349	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	270.5966	274.5371	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	225.4333	228.7659	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	241.3797	255.8199	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	750.0874	772.0094	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	778.8747	800.9774	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	428.1067	433.0761	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	296.3835	300.1923	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	251.3925	254.6260	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	260.6103	275.1810	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	769.3090	791.3645	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	797.8944	820.1308	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	452.4744	457.0501	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	320.9724	324.4578	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	275.8715	278.8276	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	276.8965	294.4410	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	786.9057	809.6331	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	815.2652	838.1618	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	476.7815	480.9264	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	347.1385	350.7493	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	302.6293	306.8170	0.0000	0.0000	0	0.00		
			<u>314,856</u>					<u>0.00</u>	<u>0.00</u>	<u>22 258 715.00</u>	<u>0.00</u>
	<b>Total</b>		<b>419,659</b>					<b>0.00</b>	<b>0.00</b>	<b>33 292 274.00</b>	<b>135 668 927 596.60</b>

<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>	
<b>Future</b>										
Mar 2019	EUUS	Future	5	1.1406	1.1419	0.0000	0.0000	0	0.00	
Jun 2019	EUUS	Future	582	1.1493	1.1505	0.0000	0.0000	0	0.00	
			<u>587</u>					<u>0.00</u>	<u>0.00</u>	<u>745 402.00</u>
		<b>Total</b>	<b>587</b>					<b>0.00</b>	<b>0.00</b>	<b>745 402.00</b>
<b>Future</b>										
Mar 2019	GBUS	Future	5	1.2966	1.2902	0.0000	0.0000	0	0.00	
			<u>5</u>					<u>0.00</u>	<u>0.00</u>	<u>171 622.00</u>
		<b>Total</b>	<b>5</b>					<b>0.00</b>	<b>0.00</b>	<b>171 622.00</b>
<b>Future</b>										
Mar 2019	ZAAD	Future	7,452	9.9708	9.9776	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	15,741	10.0904	10.0979	0.0000	0.0000	0	0.00	
Sep 2019	ZAAD	Future	813	10.2223	10.2317	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.3498	10.3593	0.0000	0.0000	0	0.00	
			<u>24,406</u>					<u>0.00</u>	<u>0.00</u>	<u>3 846 117.00</u>
		<b>Total</b>	<b>25,406</b>					<b>0.00</b>	<b>0.00</b>	<b>3 846 117.00</b>
<b>Option</b>										
Dec 2019	ZAAD	11.00 Call	1,000	288.8291	297.4252	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>
		<b>Total</b>	<b>25,406</b>					<b>0.00</b>	<b>0.00</b>	<b>3 880 494.00</b>
<b>Future</b>										
Mar 2019	ZACA	Future	500	10.4838	10.5023	0.0000	0.0000	0	0.00	
Jun 2019	ZACA	Future	400	10.6175	10.6369	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	250	10.7620	10.7827	0.0000	0.0000	0	0.00	
			<u>1,150</u>					<u>0.00</u>	<u>0.00</u>	<u>149 263.00</u>
		<b>Total</b>	<b>1,150</b>					<b>0.00</b>	<b>0.00</b>	<b>149 263.00</b>
<b>Future</b>										
Mar 2019	ZAEU	Future	125,614	15.9371	15.9293	15.9999	15.9171	1,925	30,763,488.50	
Jun 2019	ZAEU	Future	24,570	16.2306	16.2237	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	Future	22,079	16.5542	16.5500	16.5457	16.5457	120	1,985,484.00	
Dec 2019	ZAEU	Future	17,899	16.8651	16.8609	0.0000	0.0000	0	0.00	
			<u>190,162</u>					<u>2,045.00</u>	<u>32,748,972.50</u>	<u>16 129 886.00</u>
		<b>Total</b>	<b>190,162</b>					<b>2,045.00</b>	<b>32,748,972.50</b>	<b>16 129 886.00</b>
<b>Option</b>										
Mar 2019	ZAEU	16.00 Call	650	313.1990	322.4607	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	302.0018	314.1244	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	47.2235	54.7305	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	601.9906	620.2572	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	272.1158	282.3170	0.0000	0.0000	0	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
			107,100					0.00	0.00	10 956 876.00	0.00
		<b>Total</b>	<b>297,262</b>					<b>2,045.00</b>	<b>32,748,972.50</b>	27 086 762.00	232 970 305 491.90
<b>Future</b>											
	Mar 2019 ZAFR	Future	1,143	14.0687	14.0606	0.0000	0.0000	0	0.00		
	Jun 2019 ZAFR	Future	150	14.3418	14.3338	0.0000	0.0000	0	0.00		
			1,293					0.00	0.00	626 380.00	6 751 701 429.60
		<b>Total</b>	<b>1,293</b>					<b>0.00</b>	<b>0.00</b>	626 380.00	6 751 701 429.60
<b>Future</b>											
	Mar 2019 ZAGB	Future	394,781	18.1169	17.9988	18.1533	18.0700	510	9,221,835.10		
	Jun 2019 ZAGB	Future	5,764	18.3916	18.2723	0.0000	0.0000	0	0.00		
	Sep 2019 ZAGB	Future	15,609	18.6902	18.5720	0.0000	0.0000	0	0.00		
	Dec 2019 ZAGB	Future	4,630	18.9725	18.8542	0.0000	0.0000	0	0.00		
			420,784					510.00	9,221,835.10	13 805 173.00	236 040 074 500.30
<b>Option</b>											
	Mar 2019 ZAGB	18.00 Put	500	353.3863	427.0357	0.0000	0.0000	0	0.00		
	Mar 2019 ZAGB	19.00 Call	2,500	143.6229	134.3249	0.0000	0.0000	0	0.00		
	Mar 2019 ZAGB	19.19 Put	1,000	1185.8210	1297.2024	0.0000	0.0000	0	0.00		
	Mar 2019 ZAGB	20.00 Call	500	39.0496	38.0903	0.0000	0.0000	0	0.00		
	Mar 2019 ZAGB	20.18 Call	1,500	30.9041	30.6184	0.0000	0.0000	0	0.00		
	Mar 2019 ZAGB	21.44 Call	500	6.3138	7.1242	0.0000	0.0000	0	0.00		
			6,500					0.00	0.00	1 783 113.00	0.00
		<b>Total</b>	<b>427,284</b>					<b>510.00</b>	<b>9,221,835.10</b>	15 588 286.00	236 040 074 500.30
<b>Future</b>											
	Mar 2019 ZAJY	Future	76	0.1283	0.1278	0.0000	0.0000	32,261	412,586,243.00		
			76					32,261.00	412,586,243.00	1 122 247.00	51 822 443 309.60
		<b>Total</b>	<b>76</b>					<b>32,261.00</b>	<b>412,586,243.00</b>	1 122 247.00	51 822 443 309.60
<b>Future</b>											
	Jun 2019 ZAKS	Future	2,166	0.1359	0.1347	0.0000	0.0000	0	0.00		
			2,166					0.00	0.00	38 066.00	515 662 000.00
		<b>Total</b>	<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	38 066.00	515 662 000.00
<b>Future</b>											
	Sep 2019 ZANZ	Future	213	9.6428	9.6299	0.0000	0.0000	0	0.00		
			213					0.00	0.00	146 359.00	1 123 547 250.60
		<b>Total</b>	<b>213</b>					<b>0.00</b>	<b>0.00</b>	166 359.00	1 123 547 250.60

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Mar 2019	ZASD	Future	1,200	10.2788	10.2693	0.0000	0.0000	1,200	12,336,000.00	
			<u>1,200</u>					<u>1,200.00</u>	<u>12,336,000.00</u>	<u>10 726.00</u>
		<b>Total</b>	<b>1,200</b>					<b>1,200.00</b>	<b>12,336,000.00</b>	<b>10 726.00</b>
										<b>109 054 884.50</b>
<b>Future</b>										
Mar 2019	ZATR	Future	25,000	2.5339	2.5304	0.0000	0.0000	0	0.00	
			<u>25,000</u>					<u>0.00</u>	<u>0.00</u>	<u>420 239.00</u>
		<b>Total</b>	<b>25,000</b>					<b>0.00</b>	<b>0.00</b>	<b>420 239.00</b>
										<b>1 320 654 069.00</b>
<b>Future</b>										
Mar 2019	ZAUM	Future	422	13.9722	13.9499	0.0000	0.0000	0	0.00	
			<u>422</u>					<u>0.00</u>	<u>0.00</u>	<u>155 478.00</u>
		<b>Total</b>	<b>422</b>					<b>0.00</b>	<b>0.00</b>	<b>160 001.00</b>
										<b>180 390 932 810.00</b>
<b>Future</b>										
Mar 2019	ZAUS	Future	520,120	13.9722	13.9499	14.0252	13.9545	39,880	557,487,860.80	
Jun 2019	ZAUS	Future	110,127	14.1225	14.1010	14.1300	14.1300	260	3,673,800.00	
Sep 2019	ZAUS	Future	14,290	14.2874	14.2677	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	Future	10,100	14.4455	14.4254	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	4,566	14.6168	14.5969	14.6704	14.6187	800	11,696,550.00	
			<u>659,203</u>					<u>40,940.00</u>	<u>572,858,210.80</u>	<u>194 113 127.00</u>
										<b>2 339 484 376 180.10</b>
<b>Option</b>										
Mar 2019	ZAUS	10.33 Put	1,000	0.0778	0.0974	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	11.74 Put	1,000	1.7324	2.0552	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.47 Put	721	6.7369	6.5538	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.51 Put	720	7.2893	7.0257	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.80 Put	7,520	18.6753	19.9540	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.90 Put	16,000	25.5910	28.1580	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.92 Put	139,342	27.2027	30.0812	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.00 Put	15,434	34.5129	38.8302	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.05 Put	1,155	39.8489	45.2266	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.12 Put	138,000	48.4227	55.5011	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.15 Put	10,125	52.5243	60.4082	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.25 Put	225,407	68.2291	79.1247	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.33 Put	135,043	85.0612	97.5312	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.36 Put	134,750	92.0750	105.1451	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.46 Put	20,000	118.3687	133.4567	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.50 Put	17,050	130.1888	146.0813	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.55 Put	10,000	146.0447	162.9354	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.60 Put	6,570	163.1242	180.9948	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.62 Put	6,432	170.3041	188.5608	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	13.68 Put	14,200	193.0416	212.4329	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	201.0248	220.7819	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	209.2081	229.3297	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	221.8643	242.5189	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	239.4466	260.7904	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.82 Put	2,100	253.1642	275.0074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	267.3348	289.6617	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	272.1580	294.6425	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	291.9520	315.0481	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	340.0087	341.5269	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	318.4775	320.4883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	35,606	346.2775	370.5883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	369.9100	394.5810	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	243.8631	247.3322	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	227.8760	231.5880	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	526.5552	552.6946	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	212.8650	216.7799	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	540.6650	566.8799	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	576.5822	602.9609	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	643.4361	670.0194	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	651.0299	677.6293	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	170.8554	175.1697	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	166.2006	170.5412	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	161.6669	166.0312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	689.4669	716.1312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	712.8939	739.5847	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	736.5823	763.2888	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	809.1256	835.8336	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	883.3568	909.9798	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	106.0936	110.3320	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	942.3916	968.9147	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	950.9123	977.4196	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	959.4523	985.9433	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	968.0143	994.4871	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	79.7814	83.6358	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1143.1673	1169.2315	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1197.0056	1222.9303	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1215.0682	1240.9445	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1224.1211	1249.9737	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	62.6652	66.1210	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1278.7157	1304.4233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1287.8605	1313.5428	0.0000	0.0000	0	0.00



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Mar 2019	ZAUS	15.22 Call	2,785	58.3860	61.7199	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	55.9649	59.2249	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1398.5121	1423.9013	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	44.6283	47.5263	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	40.9312	43.7091	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	40.2271	42.9805	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	37.5183	40.1752	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	34.9786	37.5402	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	28.2825	30.5621	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	21.5918	23.5362	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	20.8211	22.7232	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	18.6619	20.4393	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	15.2424	16.8041	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	11.9674	13.2974	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	10.8963	12.1440	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	8.6877	9.7539	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	7.4618	8.4188	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	5.0837	5.8070	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	4.8912	5.5940	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	3.3511	3.8579	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	3.3384	3.8427	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	3.2770	3.7693	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	3.2080	3.6868	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	3.1970	3.6736	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	3.1861	3.6606	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	3.0558	3.5041	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	2.9936	3.4290	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	2.8423	3.2451	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	2.5946	2.9372	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	1.6628	1.9001	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	3.4888	3.8003	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	40.3427	44.7214	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	82.2594	92.9723	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	124.5971	137.8716	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	128.8946	142.3931	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	188.8647	204.9492	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	1,282	191.7112	207.8990	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	417.7041	440.2448	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	442.3681	465.3900	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	636.4546	638.8829	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	504.6295	528.7268	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	542.9130	567.5804	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	14.20 Put	13,600	618.9231	644.3773	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	649.5380	675.2397	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	461.0011	465.8961	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	409.9880	415.3495	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	902.7364	929.7082	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	916.9892	944.0024	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	343.9925	349.7376	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	281.3136	286.8574	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	240.7513	245.9947	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	145,182	212.3698	217.3054	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	194.3506	199.1194	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	191.5056	196.2458	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	170.2909	174.7853	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	159.4750	163.8241	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	156.0368	160.3351	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	147.2521	151.4175	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	138.0050	142.0195	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	45.9493	47.6864	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	7.4917	7.5668	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	103.8796	112.0050	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	282.8061	298.6958	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	557.0553	578.5089	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	588.0976	609.8691	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	652.7095	675.0572	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	720.5867	743.4338	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	791.6032	814.8900	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1527.4975	1552.3178	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1670.4975	1695.2070	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	340.9268	345.0514	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	175.4854	179.2796	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	151.7849	155.0473	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	141.5718	144.5847	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	137.9775	140.8962	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	123.5653	126.0979	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	117.3136	119.6698	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	33,715	111.1261	111.5673	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	19.32 Call	33,151	72.9088	73.3643	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	39.6977	39.9575	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	504.2845	523.9755	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.07 Put	1,351	705.4481	727.1730	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.85 Call	1,351	345.5549	349.1012	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	17.38 Call	1,000	283.7353	286.5491	0.0000	0.0000	0	0.00

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Dec 2019	ZAUS	20.00 Call	2,000	108.6961	109.4829	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	56.1166	69.0324	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	729.2870	752.2428	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	390.5300	395.0412	0.0000	0.0000	0	0.00		
			<u>4,964,035</u>					<u>0.00</u>	<u>0.00</u>	<u>63 952 634.00</u>	<u>0.00</u>
	<b>Total</b>		<b>5,623,238</b>					<b>40,940.00</b>	<b>572,858,210.80</b>	<b>258 065 761.00</b>	<b>2 339 484 376 180.10</b>

<b>Grand Total</b>		<b>6,928,965</b>					<b>76,956.00</b>	<b>1 039 751 261.40</b>	<b>352,935,488</b>	<b>3,288,933,816,500.53</b>
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