



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

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

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
<b>Future</b>											
Mar 2019	DAEU	Future	53	16.3210	16.3586	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	16.3778	16.4144	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	16.4142	16.4509	0.0000	0.0000	0	0.00		
			<u>58</u>					<u>0.00</u>	<u>0.00</u>	<u>816 108.00</u>	<u>12 204 137 941.00</u>
<b>Option</b>											
Aug 2019	DAEU	19.65 Call	42,400	96.3881	87.8301	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.65 Call	21,000	1350.9130	1346.1526	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.91 Call	15,000	1217.2870	1209.3831	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.00 Call	15,000	1174.0007	1165.1071	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.07 Call	15,000	1141.3554	1131.7326	0.0000	0.0000	0	0.00		
			<u>108,400</u>					<u>0.00</u>	<u>0.00</u>	<u>1 769 987.00</u>	<u>0.00</u>
<b>Total</b>			<b>108,458</b>					<b>0.00</b>	<b>0.00</b>	<b>2 586 095.00</b>	<b>12 204 137 941.00</b>
<b>Future</b>											
Mar 2019	DAGB	Future	80	19.0684	18.9890	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	19.1234	19.0426	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	19.1587	19.0776	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	27	19.1683	19.0871	0.0000	0.0000	0	0.00		
			<u>270</u>					<u>0.00</u>	<u>0.00</u>	<u>66 926.00</u>	<u>1 122 552 906.30</u>
<b>Total</b>			<b>270</b>					<b>0.00</b>	<b>0.00</b>	<b>274 239.00</b>	<b>1 122 552 906.30</b>
<b>Future</b>											
Mar 2019	DAUS	Future	0	14.4318	14.3797	0.0000	0.0000	45,000	648,429,000.00		
Mar 2019	DAUS	Future	20,000	14.4528	14.3848	0.0000	0.0000	70,000	1,003,372,000.00		
Mar 2019	DAUS	Future	10,000	14.4579	14.3898	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,409	14.4596	14.3915	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	10,000	14.4647	14.3965	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.4664	14.3982	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	30,000	14.4697	14.4015	0.0000	0.0000	23,200	336,499,760.00		
Apr 2019	DAUS	Future	2,025	14.4714	14.4031	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	14.4888	14.4198	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	349	14.5077	14.4386	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	15	14.5129	14.4437	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	4,591	14.5146	14.4454	0.0000	0.0000	430	6,198,966.00		
May 2019	DAUS	Future	303	14.5267	14.4574	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	25,000	14.5301	14.4608	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	93	14.5370	14.4676	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	387	14.5647	14.4950	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	416	14.5682	14.4985	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.5751	14.5054	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	0	14.5855	14.5158	0.0000	0.0000	10,000	144,844,000.00		
Jun 2019	DAUS	Future	2,607	14.6170	14.5469	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.6224	14.5521	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	682	14.6759	14.6039	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.6776	14.6056	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	1,678	14.7287	14.6558	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.7341	14.6610	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.7377	14.6645	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	3,617	14.7539	14.6801	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	53	14.7845	14.7103	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.7882	14.7139	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	108	14.8410	14.7660	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	Future	52	14.8948	14.8184	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.9004	14.8239	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.9041	14.8275	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.9580	14.8798	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0118	14.9320	0.0000	0.0000	0	0.00		
Feb 2020	DAUS	Future	3,500	15.0640	14.9835	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.0696	14.9889	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.1293	15.0457	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.1842	15.0963	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.2533	15.1601	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.3677	15.2692	0.0000	0.0000	0	0.00		
			<u>206,844</u>					<u>148,630.00</u>	<u>2,139,343,726.00</u>	<u>11 921 479.00</u>	<u>148 317 392 669.00</u>

Option

Mar 2019	DAUS	14.37 Call	20,000	110.9716	103.0926	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.37 Put	20,000	28.1716	88.2926	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	4.0208	9.0697	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	8.1767	17.4403	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.84 Call	15,000	624.3635	558.5504	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Call	6,500	471.9523	410.8615	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.18 Call	15,000	310.8873	261.0188	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	14.50 Put	20,000	136.8463	191.9706	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	0.0795	0.1091	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	0.8742	1.2863	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	597.7612	534.6771	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	42.1119	64.5009	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	52.7233	79.3272	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	158.3784	131.0806	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	56.7996	48.8304	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	3.0765	2.9502	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	1.0664	1.1295	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.00 Call	30,000	502.0702	442.4296	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	10.3303	12.1784	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	35,000	77.7607	96.3488	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	250.9047	211.2272	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.38 Call	0	294.7892	251.8751	0.0000	0.0000	20,000	0.00
Apr 2019	DAUS	14.40 Call	20,000	284.6752	242.4517	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.44 Call	60,000	265.2914	225.1701	0.0000	0.0000	80,000	0.00
Apr 2019	DAUS	14.45 Call	40,000	260.6182	221.0214	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Call	25,000	427.5502	0.0000	0.0000	0.0000	25,000	0.00
Apr 2019	DAUS	14.50 Call	50,000	264.4506	224.0745	0.0000	0.0000	50,000	0.00
Apr 2019	DAUS	14.55 Call	25,000	243.9678	0.0000	0.0000	0.0000	25,000	0.00
Apr 2019	DAUS	13.00 Put	3,000	5.9240	5.4230	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1045.2456	975.7479	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	149.5350	166.6670	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	168.9294	187.5934	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	184.7560	155.0486	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	59.5772	46.3313	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	35.7993	26.3577	0.0000	0.0000	0	0.00
May 2019	DAUS	13.72 Call	50,000	861.3201	796.0683	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Call	50,000	507.4680	453.7669	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Call	61,000	526.4541	473.0329	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	168.4277	142.0425	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	126.3732	104.8460	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	10.9272	9.7202	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	231.6190	245.6535	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	252.4825	267.5387	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	260.0231	225.3128	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	116.4638	96.9134	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	80.5409	64.8638	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.83 Put	45,000	123.8088	130.3360	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.06 Put	18,000	194.9272	204.7784	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	228.4587	239.8522	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	DAUS	14.25 Put	18,000	269.5521	282.7886	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	25.5304	24.9753	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.02 Put	29,000	208.9317	218.0101	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	278.0963	290.0121	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	299.4251	312.1953	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	300.2146	263.6682	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.33 Call	29,000	261.6589	228.3274	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	154.3011	131.3360	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	114.0259	95.1147	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	45.9667	45.1385	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	322.2037	333.7958	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	343.9545	356.2114	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	344.2598	305.6577	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	195.9005	169.1346	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	151.7070	129.5323	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	469.2591	484.2017	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	191.1144	165.3259	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	63.6402	63.3173	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	355.9596	366.8999	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	377.9045	389.4222	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	371.7884	332.3662	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	224.5711	195.8905	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	178.5913	154.3169	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	71.2774	60.7225	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	79.5824	80.0624	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	384.7302	395.5039	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	406.7598	418.0835	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	402.7232	362.6553	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	254.2772	224.6482	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	204.9955	179.6370	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	95.5092	95.8875	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	412.5934	423.1058	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	434.7453	445.8572	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	428.2089	389.1355	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	280.9056	251.1884	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	231.3231	205.5525	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	107.4800	108.3408	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	434.5947	445.4764	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	456.7914	468.2678	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	453.1302	414.0857	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	305.2446	275.0473	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	255.4592	228.9125	0.0000	0.0000	0	0.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Dec 2019	DAUS	13.00 Put	500	118.4537	119.4497	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	456.2305	466.5207	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	478.4207	489.2817	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	477.6216	437.9493	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	331.3967	300.1237	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	281.4777	253.7848	0.0000	0.0000	0	0.00		
			<u>910,794</u>					<u>200,000.00</u>	<u>0.00</u>	<u>24 350 229.00</u>	<u>0.00</u>
	<b>Total</b>		<b>1,117,638</b>					<b>348,630.00</b>	<b>2,139,343,726.00</b>	<b>36 271 708.00</b>	<b>148 317 392 669.00</b>
<b>Future</b>											
Jun 2019	EUUS	Future	5	1.1360	1.1440	0.0000	0.0000	0	0.00		
			<u>5</u>					<u>0.00</u>	<u>0.00</u>	<u>745 994.00</u>	<u>8 462 928 145.00</u>
	<b>Total</b>		<b>5</b>					<b>0.00</b>	<b>0.00</b>	<b>745 994.00</b>	<b>8 462 928 145.00</b>
<b>Future</b>											
Jun 2019	GBUS	Future	5	1.3237	1.3244	0.0000	0.0000	0	0.00		
Dec 2019	GBUS	Future	2,219	1.3350	1.3356	0.0000	0.0000	0	0.00		
			<u>2,224</u>					<u>0.00</u>	<u>0.00</u>	<u>176 170.00</u>	<u>2 268 656 737.00</u>
	<b>Total</b>		<b>2,224</b>					<b>0.00</b>	<b>0.00</b>	<b>176 170.00</b>	<b>2 268 656 737.00</b>
<b>Future</b>											
Jun 2019	ZAAD	Future	17,563	10.3612	10.3164	10.3602	10.2725	800	8,253,020.00		
Sep 2019	ZAAD	Future	1,731	10.4989	10.4515	10.4065	10.4065	100	1,040,650.00		
Dec 2019	ZAAD	Future	400	10.6332	10.5846	0.0000	0.0000	0	0.00		
			<u>19,694</u>					<u>900.00</u>	<u>9,293,670.00</u>	<u>3 868 331.00</u>	<u>33 921 621 022.60</u>
<b>Option</b>											
Dec 2019	ZAAD	11.00 Call	1,000	310.8508	284.9711	0.0000	0.0000	0	0.00		
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>	<u>0.00</u>
	<b>Total</b>		<b>20,694</b>					<b>900.00</b>	<b>9,293,670.00</b>	<b>3 902 708.00</b>	<b>33 921 621 022.60</b>
<b>Future</b>											
Jun 2019	ZACA	Future	1,950	10.8993	10.9093	10.8884	10.8279	800	8,686,460.00		
Sep 2019	ZACA	Future	400	11.0477	11.0553	0.0000	0.0000	0	0.00		
Dec 2019	ZACA	Future	0	11.1905	11.1966	11.1632	11.1632	150	1,674,480.00		
			<u>2,350</u>					<u>950.00</u>	<u>10,360,940.00</u>	<u>155 363.00</u>	<u>1 545 884 965.10</u>
	<b>Total</b>		<b>2,350</b>					<b>950.00</b>	<b>10,360,940.00</b>	<b>155 363.00</b>	<b>1 545 884 965.10</b>
<b>Future</b>											
Jun 2019	ZADK	Future	450	2.2226	2.2273	0.0000	0.0000	0	0.00		
			<u>450</u>					<u>0.00</u>	<u>0.00</u>	<u>13 825.00</u>	<u>298 500 189.00</u>
	<b>Total</b>		<b>450</b>					<b>0.00</b>	<b>0.00</b>	<b>13 825.00</b>	<b>298 500 189.00</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>										
Jun 2019	ZAEU	Future	121,707	16.5775	16.6141	16.5001	16.5001	5	82,500.50	
Sep 2019	ZAEU	Future	42,595	16.8970	16.9314	16.9180	16.7326	286	4,812,035.80	
Dec 2019	ZAEU	Future	32,686	17.2028	17.2384	0.0000	0.0000	0	0.00	
Mar 2020	ZAEU	Future	4,361	17.5373	17.5756	0.0000	0.0000	0	0.00	
			<u>201,349</u>					<u>291.00</u>	<u>4,894,536.30</u>	<u>16 663 301.00</u>
<b>Option</b>										
Jun 2019	ZAEU	15.35 Put	570	60.2472	48.6187	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	16.64 Call	300	445.7258	443.4617	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	16.73 Put	500	563.7234	523.8648	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	15.62 Put	14,429	176.4315	155.5771	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.27 Call	14,429	313.9558	299.5080	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	40,000	261.5826	247.4337	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	26.8433	23.1833	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	14.09 Put	136,646	41.9966	35.2730	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	15.70 Put	136,646	243.2660	218.5590	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	376.9874	344.8911	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	19.79 Call	136,646	285.7298	271.5962	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	206.9434	194.6260	0.0000	0.0000	0	0.00	
			<u>531,616</u>					<u>0.00</u>	<u>0.00</u>	<u>11 700 413.00</u>
<b>Total</b>			<b>732,965</b>					<b>291.00</b>	<b>4,894,536.30</b>	<b>28 363 714.00</b>
<b>Future</b>										
Jun 2019	ZAFR	Future	943	14.7832	14.6787	14.7743	14.6582	450	6,609,750.00	
Sep 2019	ZAFR	Future	0	15.0831	14.9740	14.9456	14.9456	100	1,494,560.00	
			<u>943</u>					<u>550.00</u>	<u>8,104,310.00</u>	<u>632 152.00</u>
<b>Total</b>			<b>943</b>					<b>550.00</b>	<b>8,104,310.00</b>	<b>632 152.00</b>
<b>Future</b>										
Jun 2019	ZAGB	Future	198,427	19.3167	19.2341	19.3323	19.1064	29	556,603.30	
Sep 2019	ZAGB	Future	21,179	19.6255	19.5359	19.3407	19.3406	1,000	19,340,650.00	
Dec 2019	ZAGB	Future	12,846	19.9197	19.8256	0.0000	0.0000	0	0.00	
Mar 2020	ZAGB	Future	4,674	20.2393	20.1390	0.0000	0.0000	0	0.00	
			<u>237,126</u>					<u>1,029.00</u>	<u>19,897,253.30</u>	<u>14 555 832.00</u>
<b>Option</b>										
Jun 2019	ZAGB	18.00 Call	1,000	1450.7930	1358.0049	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	18.75 Put	500	516.7560	508.4881	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	22.13 Call	500	387.7780	341.5277	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>
<b>Total</b>			<b>239,126</b>					<b>1,029.00</b>	<b>19,897,253.30</b>	<b>16 346 145.00</b>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
<b>Future</b>										
Jun 2019	ZAKS	Future	2,166	0.1432	0.1419	0.0000	0.0000	0	0.00	
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>
		<b>Total</b>	<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	<b>38 066.00</b>
<b>Future</b>										
Sep 2019	ZANZ	Future	646	10.1884	10.0859	0.0000	0.0000	0	0.00	
			<u>646</u>					<u>0.00</u>	<u>0.00</u>	<u>146 792.00</u>
		<b>Total</b>	<b>646</b>					<b>0.00</b>	<b>0.00</b>	<b>166 792.00</b>
<b>Future</b>										
Jun 2019	ZATR	Future	40,000	2.4283	2.5273	0.0000	0.0000	10,000	25,115,000.00	
			<u>40,000</u>					<u>10,000.00</u>	<u>25,115,000.00</u>	<u>515 727.00</u>
		<b>Total</b>	<b>40,000</b>					<b>10,000.00</b>	<b>25,115,000.00</b>	<b>515 727.00</b>
<b>Future</b>										
Jun 2019	ZAUM	Future	480	14.5924	14.5227	14.5788	14.4521	10	14,515,450.00	
			<u>480</u>					<u>10.00</u>	<u>14,515,450.00</u>	<u>156 703.00</u>
		<b>Total</b>	<b>480</b>					<b>10.00</b>	<b>14,515,450.00</b>	<b>161 226.00</b>
<b>Future</b>										
Jun 2019	ZAUS	Future	854,071	14.5924	14.5227	14.6300	14.3288	177,036	2,562,720,959.00	
Sep 2019	ZAUS	Future	27,907	14.7593	14.6853	14.6274	14.5319	700	10,220,047.00	
Dec 2019	ZAUS	Future	22,743	14.9208	14.8439	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	10,345	15.0958	15.0141	0.0000	0.0000	0	0.00	
Jun 2020	ZAUS	Future	700	15.2736	15.1789	0.0000	0.0000	0	0.00	
			<u>915,766</u>					<u>177,736.00</u>	<u>2,572,941,006.00</u>	<u>201 648 319.00</u>
<b>Option</b>										
Jun 2019	ZAUS	10.69 Put	1,000	0.3686	0.2953	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.28 Put	1,000	6.9222	5.9644	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.65 Put	1,050	10.9793	9.5763	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.75 Put	1,000	12.4931	10.9425	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.92 Put	2,100	15.6400	13.8112	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.98 Put	911	16.9580	15.0230	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.00 Put	165,703	17.4250	15.4542	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.10 Put	14,000	19.9911	19.7183	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.22 Put	122,704	26.9602	0.0000	0.0000	0.0000	122,704	0.00	
Jun 2019	ZAUS	13.24 Put	30,000	28.7285	30.9745	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.25 Put	4,582	29.6454	31.9362	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.28 Put	122,704	32.5307	34.9606	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.30 Put	143,800	34.5697	37.0957	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	13.35 Put	4,317	40.0893	42.8659	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	7,500	1153.0210	1086.9489	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	1070.3913	1004.9780	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Put	700	77.9913	82.2780	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	130.6827	136.8804	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	842.8793	780.2739	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.91 Put	1,000	153.4548	160.6869	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	787.7644	726.2952	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	23,500	774.3692	713.2007	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	181.9692	190.5007	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.06 Put	2,100	202.7261	212.1901	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	206.3238	215.9466	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	256.6582	268.4903	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,982	277.7881	290.5287	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	299.9001	313.5730	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	565.3827	510.3204	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	529.3170	475.6456	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.44 Put	31,500	366.9559	383.3890	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	453.8051	405.4832	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	470.3749	493.4333	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	482.3864	505.9390	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.66 Call	122,704	420.8416	0.0000	0.0000	0.0000	122,704	0.00
Jun 2019	ZAUS	14.72 Call	122,704	397.9063	353.4958	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.75 Call	1,000	386.8900	343.2212	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	362.3196	320.3675	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	17,500	305.9696	268.3104	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	2,900	278.5550	243.1849	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	231.0573	199.8815	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	226.7673	195.9866	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	146,182	191.7386	164.3372	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.58 Call	1,380	178.0672	152.0685	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.60 Call	143,800	174.8178	149.1584	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	168.5060	143.5180	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.66 Call	122,704	165.4456	0.0000	0.0000	0.0000	122,704	0.00
Jun 2019	ZAUS	15.73 Call	122,704	155.1969	131.6589	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	145.6414	123.1807	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	134.3014	113.1543	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	130.7428	110.0182	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	5,020	121.7587	101.6793	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	112.1097	92.8189	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	17.1060	12.3310	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	4.9351	4.2606	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	12.50 Put	1,000	35.9777	34.6375	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.87 Put	9,783	61.3076	59.7200	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.02 Put	17,287	75.2921	73.6891	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.15 Put	11,333	89.5257	87.9752	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	101.9678	102.3428	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.65 Call	5,666	1294.2344	1224.2230	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.70 Put	2,000	198.2124	202.4764	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.77 Put	28,500	217.8582	222.5390	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	280.9826	287.5628	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.00 Put	1,000	291.3640	298.9990	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.12 Put	177	338.3747	347.4038	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	376.3450	386.4755	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.30 Put	9,783	416.6116	427.8935	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.36 Put	111	444.7122	456.7889	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.46 Put	17,287	493.7531	507.1988	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.50 Call	14,000	773.4274	713.4389	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.65 Put	3,000	594.3048	610.4843	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.70 Put	1,000	622.3249	639.2441	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.85 Put	3,000	711.1407	731.2380	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.00 Call	750	565.1160	513.8911	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.03 Call	177	554.6620	503.9681	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.16 Call	111	511.5852	463.1976	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1067.1141	1096.5595	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.51 Call	28,500	412.1275	370.0936	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1200.5680	1233.3459	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	332.3812	295.9575	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.12 Call	17,287	161.5718	139.4594	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.18 Call	9,783	156.3199	134.7627	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	152.0974	130.9929	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	122.2249	105.1559	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	112.5419	97.5711	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	109.6008	94.9478	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	93.1944	80.3543	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	17.2364	15.4307	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	12.87 Put	139,860	92.6051	92.9821	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.00 Put	49,600	111.8671	112.6569	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	256.7776	261.0804	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.80 Put	500	299.0314	304.2274	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.94 Put	139,860	345.5278	351.7292	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.00 Put	26,500	366.7663	373.4325	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.07 Put	1,351	392.5564	399.7891	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.08 Put	4,150	396.3267	403.6418	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	14.10 Put	52,300	403.9381	411.4244	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.41 Put	49,600	542.0462	554.6406	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	15.80 Call	250	535.4453	491.5053	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.13 Call	52,300	459.6830	420.3605	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.20 Call	50,100	445.2746	406.8884	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.25 Call	26,000	435.3157	397.5842	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.35 Call	4,150	416.1894	379.7357	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.37 Call	500	412.4871	376.0818	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	331.1136	299.4666	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.02 Call	139,860	306.8678	276.8369	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	262.2224	235.3414	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	110.0240	94.5310	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	33.9471	31.6069	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	12.96 Put	277,778	143.1974	146.7527	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	13.06 Put	275,862	162.3758	166.1671	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	431.4162	438.4464	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.40 Put	277,778	591.1592	604.9767	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.51 Put	275,862	644.9974	660.0134	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	16.60 Call	277,778	538.0869	497.1758	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	16.81 Call	275,862	497.2110	458.5465	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	357.6259	327.4866	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	11.90 Put	900	55.8750	53.6205	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	14.25 Put	900	591.9132	603.4539	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	17.26 Call	900	599.2817	556.0651	0.0000	0.0000	0	0.00		
			<u>4,644,635</u>					<u>368,112.00</u>	<u>0.00</u>	<u>70 189 410.00</u>	<u>0.00</u>
	<b>Total</b>		<b>5,560,401</b>					<b>545,848.00</b>	<b>2,572,941,006.00</b>	<b>271 837 729.00</b>	<b>2 446 892 379 372.50</b>
	<b>Grand Total</b>		<b>7,828,816</b>					<b>908,208.00</b>	<b>4 804 465 891.60</b>	<b>371,576,773</b>	<b>3,392,972,481,077.22</b>