



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 28-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Jan 2019	DAEU	Future	4,830	16.5630	16.6717	0.0000	0.0000	0	0.00
Feb 2019	DAEU	Future	29	16.6942	16.8048	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.7474	16.8567	0.0000	0.0000	0	0.00
			<u>4,912</u>					<i>0.00</i>	<i>0.00</i>
									<i>811 215.00</i>
									<i>12 127 077 435.00</i>
Option									
Jan 2019	DAEU	15.85 Put	13,000	6.7429	5.5295	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	779.5771	724.4740	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	353.7666	376.6094	0.0000	0.0000	0	0.00
			<u>91,600</u>					<i>0.00</i>	<i>0.00</i>
									<i>1 510 587.00</i>
									<i>0.00</i>
		Total	96,512					0.00	0.00
									<i>2 321 802.00</i>
									<i>12 127 077 435.00</i>
Future									
Jan 2019	DAGB	Future	4,112	18.3341	18.4482	0.0000	0.0000	0	0.00
Jan 2019	DAGB	Future	27	18.3655	18.4815	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.4538	18.5704	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.5457	18.6623	0.0000	0.0000	0	0.00
			<u>4,266</u>					<i>0.00</i>	<i>0.00</i>
									<i>62 358.00</i>
									<i>1 041 064 928.30</i>
		Total	4,266					0.00	0.00
									<i>269 671.00</i>
									<i>1 041 064 928.30</i>
Future									
Dec 2018	DAUS	Future	0	14.4070	14.5399	0.0000	0.0000	285	4,107,620.00
Dec 2018	DAUS	Future	1,952	14.4102	14.5399	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.4102	14.5388	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	125	14.4203	14.4405	0.0000	0.0000	125	1,805,062.50
Jan 2019	DAUS	Future	324	14.4290	14.5599	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.4308	14.5618	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	126	14.4325	14.5636	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,901	14.4395	14.5709	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	51	14.4465	14.5782	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,018	14.4552	14.5874	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>		
Jan 2019	DAUS	Future	1,655	14.4569	14.5892	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.4798	14.6124	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.4833	14.6160	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.5010	14.6338	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,098	14.5063	14.6392	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.5133	14.6464	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.5151	14.6482	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.5540	14.6877	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	5,111	14.5576	14.6913	0.0000	0.0000	755	11,128,700.00		
Apr 2019	DAUS	Future	55	14.5647	14.6987	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.6159	14.7506	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.6726	14.8081	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.6799	14.8155	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.7238	14.8600	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.7293	14.8657	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.7874	14.9247	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.8474	14.9855	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.8511	14.9893	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.9036	15.0426	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.9600	15.0993	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.0221	15.1619	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	15.0260	15.1658	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0824	15.2229	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1436	15.2838	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.2091	15.3490	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2746	15.4142	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3317	15.4710	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.4036	15.5425	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.5219	15.6602	0.0000	0.0000	0	0.00		
			<u>111,556</u>					<u>1,165.00</u>	<u>17,041,382.50</u>	<u>11 020 447.00</u>	<u>135 484 020 069.60</u>
Option											
Dec 2018	DAUS	13.00 Put	500	0.0000	0.0361	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.80 Put	1,000	0.2291	2.8296	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.22 Call	500	204.9471	343.2210	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.25 Put	250	19.1505	27.0347	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.96 Put	250	552.5907	436.0095	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	16.93 Call	500	0.0212	0.0443	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	17.58 Call	500	0.0436	0.0382	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.57 Put	600	1.9969	1.5096	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.93 Call	600	492.7046	620.3963	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.35 Call	600	156.1571	258.4079	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.64 Put	250	4.7745	4.3619	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	14.12 Call	250	349.4538	463.6289	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	77.6602	129.6478	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	37.1775	22.3515	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	493.4378	601.3617	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.29 Put	218	160.6368	115.4143	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.36 Call	218	261.7493	341.4128	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	1.6441	1.2723	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	6.5864	5.4098	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	196.5481	151.9582	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	217.4272	169.5616	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	354.7078	430.4814	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	118.0440	148.2558	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	68.7953	88.3635	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	21.7442	19.9435	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	280.2469	232.5645	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	302.3789	252.1277	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	425.3721	493.7746	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	195.3505	230.0507	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	132.5494	157.5817	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	205.2395	168.3393	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	261.6687	302.3948	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	218.2059	181.8275	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	261.3501	218.5652	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	48.4015	42.8138	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	349.1104	297.4106	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	371.9147	318.0829	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	484.1324	544.9649	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	259.1625	295.2110	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	192.5618	220.6879	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	196.2019	164.9827	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	654.2659	730.1624	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	74.1795	64.9829	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1283.2506	1394.9018	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	403.5654	351.5675	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	427.0086	372.9549	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	532.5954	589.6359	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	315.5552	351.0558	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	249.6151	278.3895	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	96.3333	85.1431	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	449.6125	397.2175	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	473.3308	419.0226	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	572.3600	626.5456	0.0000	0.0000	0	0.00

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May 2019	DAUS	15.79 Call	250	362.1195	396.8843	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	294.5548	323.6440	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	752.1873	680.9890	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	190.9190	210.3076	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	115.4221	101.8959	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	485.2072	432.7961	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	509.1030	454.8667	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	601.8161	653.9626	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	397.2883	431.9080	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	329.0578	360.0834	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	215.2226	192.2261	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	320.2956	350.0047	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	132.8706	118.0889	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	519.8658	466.5303	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	543.9270	488.9194	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	639.5456	690.2630	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	439.8321	474.7997	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	371.8656	402.8855	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	674.2242	611.0190	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	427.8576	461.4545	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	146.9918	126.8021	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	548.2074	494.8032	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	572.3417	516.0131	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	663.8663	712.7361	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	470.3035	504.8585	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	400.7899	432.1581	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	189.3076	200.3650	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	160.7483	135.1622	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	573.6570	521.0806	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	597.8140	542.3889	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	693.8367	741.6981	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	502.4093	538.0827	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	430.5066	461.9491	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	173.2870	151.0584	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	597.9826	546.3521	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	622.1346	567.7515	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	716.7237	762.8211	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	529.0931	564.6467	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	459.3137	490.4934	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	188.8412	161.8254	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	619.4234	567.6440	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	642.2757	589.1120	0.0000	0.0000	0	0.00

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Nov 2019	DAUS	16.03 Call	500	741.5582	787.0399	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	16.87 Call	250	555.8275	591.0793	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	17.26 Call	250	487.5442	518.5530	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	13.00 Put	500	203.6067	174.4815	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.20 Put	250	641.1639	588.7319	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	664.1458	610.2913	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	766.2459	811.3706	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	585.2090	620.3414	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	518.1467	549.4959	0.0000	0.0000	0	0.00	
			<u>333,091</u>					<u>0.00</u>	<u>0.00</u>	<u>22 142 853.00</u>
		Total	444,647					1,165.00	17,041,382.50	33 163 300.00
										135 484 020 069.60
Future										
Mar 2019	EUUS	Future	10	1.1527	1.1497	1.1527	1.1527	10	115,270.00	
Jun 2019	EUUS	Future	582	1.1614	1.1585	0.0000	0.0000	0	0.00	
			<u>592</u>					<u>10.00</u>	<u>115,270.00</u>	<u>745 367.00</u>
		Total	592					10.00	115,270.00	8 455 769 280.00
										8 455 769 280.00
Future										
Mar 2019	GBUS	Future	400	1.2733	1.2696	0.0000	0.0000	0	0.00	
			<u>400</u>					<u>0.00</u>	<u>0.00</u>	<u>171 207.00</u>
		Total	400					0.00	0.00	2 202 856 108.00
										2 202 856 108.00
Future										
Mar 2019	ZAAD	Future	5,944	10.2642	10.3304	10.2825	10.2417	31	317,533.50	
Jun 2019	ZAAD	Future	15,743	10.3906	10.4590	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.6627	10.7331	0.0000	0.0000	0	0.00	
			<u>22,087</u>					<u>31.00</u>	<u>317,533.50</u>	<u>3 841 396.00</u>
										33 645 977 291.70
Option										
Dec 2019	ZAAD	11.00 Call	1,000	467.9817	493.7146	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>
		Total	23,087					31.00	317,533.50	3 875 773.00
										33 645 977 291.70
Future										
Mar 2019	ZACA	Future	500	10.6787	10.7753	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	250	10.9624	11.0627	0.0000	0.0000	0	0.00	
			<u>750</u>					<u>0.00</u>	<u>0.00</u>	<u>143 913.00</u>
		Total	750					0.00	0.00	1 422 918 420.10
										1 422 918 420.10
Future										
Mar 2019	ZAEU	Future	123,587	16.7575	16.8677	16.8008	16.7853	1,725	28,867,051.00	

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Jun 2019	ZAEU	Future	24,250	17.0705	17.1848	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	10,459	17.4135	17.5334	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	Future	277	17.7450	17.8691	0.0000	0.0000	0	0.00		
			<u>158,573</u>					<u>1,725.00</u>	<u>28,867,051.00</u>	<u>16 031 748.00</u>	<u>231 375 075 474.90</u>
Option											
Mar 2019	ZAEU	16.00 Call	650	953.7958	1035.4983	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	639.9036	677.2990	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	57.6925	55.9264	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	434.1391	403.9042	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	500.5376	525.5551	0.0000	0.0000	0	0.00		
			<u>107,100</u>					<u>0.00</u>	<u>0.00</u>	<u>10 956 876.00</u>	<u>0.00</u>
	Total		265,673					1,725.00	28,867,051.00	26 988 624.00	231 375 075 474.90
Future											
Mar 2019	ZAFR	Future	1,143	14.9363	15.0057	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	15.2321	15.3040	0.0000	0.0000	0	0.00		
			<u>1,293</u>					<u>0.00</u>	<u>0.00</u>	<u>625 930.00</u>	<u>6 745 075 094.60</u>
	Total		1,293					0.00	0.00	625 930.00	6 745 075 094.60
Future											
Mar 2019	ZAGB	Future	397,720	18.5107	18.6274	18.5600	18.5600	5	92,800.00		
Jun 2019	ZAGB	Future	5,764	18.7923	18.9123	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	16,150	19.0967	19.2219	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	Future	247	19.3904	19.5168	0.0000	0.0000	0	0.00		
			<u>419,881</u>					<u>5.00</u>	<u>92,800.00</u>	<u>13 786 571.00</u>	<u>235 695 172 603.20</u>
Option											
Mar 2019	ZAGB	18.00 Put	500	369.2474	334.1885	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	409.8541	456.9581	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1030.2191	955.5672	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	176.9053	201.3255	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	151.3908	173.0063	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	41.4838	53.5989	0.0000	0.0000	0	0.00		
			<u>6,500</u>					<u>0.00</u>	<u>0.00</u>	<u>1 783 113.00</u>	<u>0.00</u>
	Total		426,381					5.00	92,800.00	15 569 684.00	235 695 172 603.20
Future											
Jun 2019	ZAKS	Future	2,166	0.1408	0.1411	0.0000	0.0000	0	0.00		
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>	<u>515 662 000.00</u>
	Total		2,166					0.00	0.00	38 066.00	515 662 000.00
Future											

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Mar 2019	ZATR	Future	14,000	2.6515	2.6559	0.0000	0.0000	0	0.00
			<u>14,000</u>					0.00	0.00
		Total	14,000					0.00	0.00
									409 239.00
									1 293 087 569.00
									409 239.00
									1 293 087 569.00
Future									
Mar 2019	ZAUM	Future	434	14.5381	14.6715	0.0000	0.0000	0	0.00
			<u>434</u>					0.00	0.00
		Total	434					0.00	0.00
									155 260.00
									180 082 430 910.00
									159 783.00
									180 082 430 910.00
Future									
Mar 2019	ZAUS	Future	486,417	14.5381	14.6715	14.6180	14.4732	11,834	172,156,686.00
Jun 2019	ZAUS	Future	112,532	14.6982	14.8341	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	Future	14,250	14.8736	15.0121	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	Future	9,900	15.0435	15.1834	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	Future	4,566	15.2387	15.3785	0.0000	0.0000	0	0.00
			<u>627,665</u>					11,834.00	172,156,686.00
									193 318 265.00
									2 328 304 403 553.50
Option									
Mar 2019	ZAUS	10.33 Put	1,000	0.4019	0.3689	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	5.9451	5.2330	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	17.5570	15.2335	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	18.6229	16.1458	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	8,132	28.5202	24.5887	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	33.0196	28.4152	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	33.9996	29.2484	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	38.2180	32.8296	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	41.1114	35.2839	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	46.3483	39.0281	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	49.6467	40.7496	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	225,407	61.9693	49.0612	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	73.4104	58.4878	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	78.0863	62.3619	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	95.2981	76.7051	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	102.9130	83.0907	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	113.0444	91.6237	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	123.8793	100.7910	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	128.4147	104.6422	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	142.7326	116.8369	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	147.7473	121.1220	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	152.8824	125.5213	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	160.8180	132.3302	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	171.8385	141.8175	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.82 Put	1,800	180.7810	149.2422	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	13.85 Put	1,000	190.2223	156.9348	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	193.4402	159.5610	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	206.6530	170.3707	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	780.2424	872.8768	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	35,606	242.1424	201.3768	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	257.3292	214.7290	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	661.8390	745.1737	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	634.4468	715.4196	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	360.3311	306.4872	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	607.9291	686.5387	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	369.8291	315.0387	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	394.1761	337.0236	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	440.1607	378.7724	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	445.4410	383.5814	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	528.8521	599.9271	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	519.5769	589.7179	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	510.4318	579.6415	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	472.3318	408.1415	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	488.8629	423.2852	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	505.8333	438.7278	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	559.3415	486.8440	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	615.3588	539.1052	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	392.1365	446.8579	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	660.5836	581.5072	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	667.1589	587.6866	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	673.7624	593.8961	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	680.3940	600.1355	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	328.2679	375.4006	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	818.6432	730.9522	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	862.0862	772.3199	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	876.7590	786.3146	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	884.1288	793.3497	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	281.9360	323.2383	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	928.8239	836.0790	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	936.3509	843.2854	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	269.5701	309.2695	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	262.4094	301.1714	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1028.2831	931.5730	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	229.1438	263.6980	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	218.9855	252.2706	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	217.0063	250.0438	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	209.2768	241.3365	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	15.52 Call	1	205.5167	237.0979	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	201.8248	232.9344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	181.0439	209.4670	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	158.1179	183.4982	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	155.2968	180.2967	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	147.1436	171.0368	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	133.3375	155.3331	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	118.0397	138.5382	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	112.6396	132.3717	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	100.6853	118.6956	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	93.4483	110.3950	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	77.6193	92.1820	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	76.1975	90.5436	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	54.8084	65.7650	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	54.3140	65.1903	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	51.9133	62.3947	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	49.1813	59.2100	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	48.7419	58.6968	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	48.3059	58.1874	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	43.0066	51.9932	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	40.4167	48.9586	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	33.4786	41.3070	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	18.8962	23.0517	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	11.8370	13.6441	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	4.7789	4.7188	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	34.2139	27.9500	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	73.9126	63.7156	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	103.4675	90.9758	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	106.4141	93.7103	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	146.9818	131.6122	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	313.9638	278.8272	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	332.0217	295.0256	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1088.8285	1183.3064	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	378.9488	336.3306	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	408.8923	362.0168	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	467.8678	415.4148	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	855.6016	930.8737	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	782.6407	852.0620	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	692.8642	624.5874	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	704.3932	635.3996	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	684.0959	745.0981	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	584.3488	637.1387	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	15.32 Call	1,980	516.3913	563.3632	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.50 Call	143,900	467.0581	509.5015	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	437.2170	476.6710	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.64 Call	39,589	432.4477	471.4901	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	396.2943	432.1982	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.89 Call	6,800	377.4386	411.6809	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	371.3769	405.0869	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	355.7438	388.0641	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	339.0395	369.8660	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	127.1552	138.4020	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	10.0063	9.9789	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	66.0815	54.8767	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	219.7130	191.6543	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	437.1564	395.3335	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	461.0992	417.3715	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	511.2152	463.6230	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	567.0121	512.7755	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	626.0967	567.1334	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1254.8426	1169.4551	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1379.9605	1290.7920	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	609.9242	652.9921	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	351.2536	377.9389	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	299.4767	322.4389	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	277.6078	297.8501	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	271.1096	289.0941	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	244.7468	259.2610	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	233.1533	246.8084	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	223.6267	236.5816	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	188.6713	200.0915	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	33.3490	31.2332	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	410.7508	370.7871	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	571.8502	523.2448	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	587.7365	623.9348	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	494.5453	524.9868	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	243.4104	265.2143	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	61.9449	58.1067	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	602.1827	558.7248	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	623.4063	659.1983	0.0000	0.0000	0	0.00		
			<u>4,953,930</u>					<u>0.00</u>	<u>0.00</u>	<u>63 901 224.00</u>	<u>0.00</u>
	Total		5,581,595					11,834.00	172,156,686.00	257 219 489.00	2 328 304 403 553.50

<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>
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Grand Total		6,861,796					14,770.00	218 590 723.00	351,667,308	3,234,742,757,820.83
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