



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 16-April-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
<b>Future</b>									
Apr 2019	DAEU	Future	1	15.9388	15.8814	0.0000	0.0000	0	0.00
May 2019	DAEU	Future	2	16.0512	15.9937	0.0000	0.0000	0	0.00
			<u>3</u>					<u>0.00</u>	<u>0.00</u>
									<u>816 224.00</u>
									<u>12 206 024 302.80</u>
<b>Option</b>									
Feb 2020	DAEU	16.65 Call	21,000	987.5693	962.2214	0.0000	0.0000	0	0.00
Feb 2020	DAEU	16.91 Call	15,000	876.2109	854.2710	0.0000	0.0000	0	0.00
Feb 2020	DAEU	17.00 Call	15,000	840.9559	820.0242	0.0000	0.0000	0	0.00
Feb 2020	DAEU	17.07 Call	15,000	814.5398	794.3739	0.0000	0.0000	0	0.00
			<u>66,000</u>					<u>0.00</u>	<u>0.00</u>
		<b>Total</b>	<b>66,003</b>					<b>0.00</b>	<b>0.00</b>
									<u>2 628 611.00</u>
									<u>12 206 024 302.80</u>
<b>Future</b>									
Apr 2019	DAGB	Future	120	18.4058	18.4049	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	27	18.4151	18.4141	0.0000	0.0000	0	0.00
May 2019	DAGB	Future	91	18.5139	18.5130	0.0000	0.0000	0	0.00
Jun 2019	DAGB	Future	49	18.6015	18.6003	0.0000	0.0000	17	316,803.50
			<u>287</u>					<u>17.00</u>	<u>316,803.50</u>
		<b>Total</b>	<b>287</b>					<b>17.00</b>	<b>316,803.50</b>
									<u>67 296.00</u>
									<u>1 129 513 525.50</u>
<b>Future</b>									
Apr 2019	DAUS	Future	349	14.0929	14.0274	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	15	14.0979	14.0323	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	4,000	14.0995	14.0340	0.0000	0.0000	1,996	28,132,361.80
May 2019	DAUS	Future	32,500	14.1110	14.0452	0.0000	0.0000	303	4,255,847.10
May 2019	DAUS	Future	25,000	14.1142	14.0485	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	93	14.1208	14.0551	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	2	14.1240	14.0584	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	387	14.1473	14.0818	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	91	14.1506	14.0851	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	74	14.1573	14.0918	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	Future	2,381	14.1974	14.1316	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.2024	14.1365	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	982	14.2533	14.1867	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.2550	14.1884	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	2,216	14.3048	14.2376	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.3100	14.2427	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.3134	14.2461	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	3,757	14.3289	14.2613	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	98	14.3577	14.2905	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3611	14.2940	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	153	14.4112	14.3438	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	Future	97	14.4622	14.3938	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.4674	14.3991	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.4709	14.4025	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	45	14.5175	14.4491	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.5209	14.4525	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.5719	14.5029	0.0000	0.0000	0	0.00		
Feb 2020	DAUS	Future	3,500	14.6225	14.5519	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.6278	14.5571	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.6814	14.6112	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.7288	14.6597	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.7913	14.7223	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.8951	14.8263	0.0000	0.0000	0	0.00		
			<u>161,740</u>					<u>2,299.00</u>	<u>32,388,208.90</u>	<u>12 098 823.00</u>	<u>150 848 283 726.40</u>

**Option**

Apr 2019	DAUS	14.40 Call	20,000	0.8712	3.8942	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.44 Call	60,000	0.5758	3.0528	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.45 Call	40,000	0.5207	2.8766	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Call	25,000	49.2430	47.5481	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.50 Call	50,000	9.6934	11.3196	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.55 Call	25,000	7.4228	8.9009	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	0.4659	1.0289	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	616.7287	558.3653	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.95 Put	734	73.8010	112.4933	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Call	734	92.3091	87.3635	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	192.8091	253.3635	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	226.9959	289.6593	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.45 Call	734	34.3293	35.9221	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	6.5184	8.4520	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	0.6405	0.7768	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	0.2020	0.2302	0.0000	0.0000	0	0.00
May 2019	DAUS	13.75 Put	22,000	51.3151	73.1383	0.0000	0.0000	0	0.00

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May 2019	DAUS	13.95 Call	20,000	272.1476	243.5789	0.0000	0.0000	0	0.00
May 2019	DAUS	14.03 Call	65,000	225.4458	203.1142	0.0000	0.0000	0	0.00
May 2019	DAUS	13.72 Call	50,000	443.9498	399.5004	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Call	50,000	163.7500	150.9692	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Call	61,000	205.8861	189.0715	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	32.9380	30.9333	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	20.6096	19.2906	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	13.1980	16.5927	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	319.7002	363.8629	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	350.3070	396.0165	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	77.9781	72.0763	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	21.2362	19.2920	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	10.4584	9.4227	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.83 Put	45,000	163.5483	192.3769	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.06 Put	18,000	262.9846	299.7161	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	309.4590	350.3802	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	22.0083	29.2823	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.02 Put	29,000	280.5975	314.3320	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	373.2022	413.2796	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	402.6987	444.1025	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	120.2809	111.6921	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.33 Call	29,000	99.9324	92.8314	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	45.9243	42.6403	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	28.6740	26.8826	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	44.7591	53.3109	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	424.4084	461.5674	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	451.9431	491.3719	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	166.2304	156.3077	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	80.0208	75.0687	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	57.8138	54.3823	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	609.1685	653.2291	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	82.5513	77.9567	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	66.8850	77.5054	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	462.5435	499.2776	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	489.7288	527.5337	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	199.4666	189.3081	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	107.2960	101.6019	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	81.6756	77.4419	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	21.1593	19.9693	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	88.3553	100.1935	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	493.6290	529.7646	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	520.4987	557.6078	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	DAUS	15.68 Call	500	231.8285	221.3350	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	134.0187	127.8726	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	104.6212	100.0123	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	109.2905	122.0997	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	522.7626	558.9252	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	549.4164	586.4963	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	259.1909	248.7547	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	158.3493	152.3939	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	127.3789	122.7761	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	127.0754	140.8726	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	546.1661	583.1328	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	572.6726	610.4477	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	285.3427	275.0479	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	181.5368	175.6409	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	149.0252	144.7147	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	145.6695	159.3576	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	567.4924	604.0243	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	593.7978	631.2027	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	308.7810	299.1892	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	204.7041	198.9411	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	172.1438	168.8082	0.0000	0.0000	0	0.00		
			<u>739,496</u>					<i>0.00</i>	<i>0.00</i>	<i>24 725 994.00</i>	<i>0.00</i>
<b>Total</b>			<b>901,236</b>					<b>2,299.00</b>	<b>32,388,208.90</b>	<b>36 824 817.00</b>	<b>150 848 283 726.40</b>
<b>Future</b>											
Jun 2019	EUUS	Future	5	1.1356	1.1368	0.0000	0.0000	0	0.00		
Sep 2019	EUUS	Future	143	1.1446	1.1458	0.0000	0.0000	0	0.00		
			<u>148</u>					<i>0.00</i>	<i>0.00</i>	<i>746 137.00</i>	<i>8 464 558 774.00</i>
<b>Total</b>			<b>148</b>					<b>0.00</b>	<b>0.00</b>	<b>746 137.00</b>	<b>8 464 558 774.00</b>
<b>Future</b>											
Jun 2019	GBUS	Future	702	1.3093	1.3153	0.0000	0.0000	352	4,616,832.00		
			<u>702</u>					<i>352.00</i>	<i>4,616,832.00</i>	<i>176 872.00</i>	<i>2 277 876 069.00</i>
<b>Total</b>			<b>702</b>					<b>352.00</b>	<b>4,616,832.00</b>	<b>176 872.00</b>	<b>2 277 876 069.00</b>
<b>Future</b>											
Jun 2019	ZAAD	Future	26,772	10.1816	10.1368	10.1974	10.1105	405	4,095,312.00		
Sep 2019	ZAAD	Future	1,731	10.3164	10.2698	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.4468	10.3993	0.0000	0.0000	0	0.00		
			<u>28,903</u>					<i>405.00</i>	<i>4,095,312.00</i>	<i>3 887 865.00</i>	<i>34 120 642 340.40</i>
<b>Option</b>											

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Dec 2019	ZAAD	11.00 Call	1,000	217.4423	204.3533	0.0000	0.0000	0	0.00	
			1,000					0.00	0.00	34 377.00
		<b>Total</b>	<b>29,903</b>					<b>405.00</b>	<b>4,095,312.00</b>	3 922 242.00 34 120 642 340.40
<b>Future</b>										
Jun 2019	ZACA	Future	2,200	10.6275	10.5669	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	1,165	10.7711	10.7086	0.0000	0.0000	0	0.00	
			3,365					0.00	0.00	158 248.00 1 577 210 800.10
		<b>Total</b>	<b>3,365</b>					<b>0.00</b>	<b>0.00</b>	158 248.00 1 577 210 800.10
<b>Future</b>										
Jun 2019	ZADK	Future	1,485	2.1581	2.1495	2.1593	2.1495	1,250	26,911,150.00	
			1,485					1,250.00	26,911,150.00	16 060.00 346 832 339.00
		<b>Total</b>	<b>1,485</b>					<b>1,250.00</b>	<b>26,911,150.00</b>	16 060.00 346 832 339.00
<b>Future</b>										
Jun 2019	ZAEU	Future	121,323	16.0965	16.0390	16.1421	16.0672	2,607	41,899,062.80	
Sep 2019	ZAEU	Future	42,882	16.4070	16.3467	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	Future	32,686	16.7025	16.6406	16.7316	16.7316	3	50,194.80	
Mar 2020	ZAEU	Future	4,361	17.0286	16.9634	0.0000	0.0000	0	0.00	
			201,252					2,610.00	41,949,257.60	16 715 476.00 242 552 793 578.10
<b>Option</b>										
Jun 2019	ZAEU	15.35 Put	570	73.5056	89.0299	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	16.64 Call	300	174.9139	166.6407	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	16.73 Put	500	789.3340	839.6932	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	15.62 Put	14,429	227.2290	249.7587	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	15.85 Put	587	311.9964	339.1101	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.27 Call	14,429	158.0222	152.8140	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	31.2455	33.9399	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	14.09 Put	136,646	48.0865	52.2477	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	14.23 Put	61,500	56.5581	61.4403	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	15.70 Put	136,646	299.8210	322.6494	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	15.85 Put	61,500	350.0153	376.9258	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	477.0245	508.7486	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	19.79 Call	136,646	167.0347	163.7223	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	19.80 Call	61,500	166.2934	163.0053	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	128.3963	128.2858	0.0000	0.0000	0	0.00	
			676,703					0.00	0.00	12 048 500.00 0.00
		<b>Total</b>	<b>877,955</b>					<b>2,610.00</b>	<b>41,949,257.60</b>	28 763 976.00 242 552 793 578.10
<b>Future</b>										

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Jun 2019	ZAFR	Future	1,093	14.1607	14.1436	0.0000	0.0000	0	0.00	
Sep 2019	ZAFR	Future	300	14.4478	14.4290	0.0000	0.0000	0	0.00	
			1,393					0.00	0.00	633 002.00
		<b>Total</b>	<b>1,393</b>					<b>0.00</b>	<b>0.00</b>	<b>633 002.00</b>
										<b>6 847 394 595.90</b>
<b>Future</b>										
Jun 2019	ZAGB	Future	118,562	18.5576	18.5566	18.5877	18.5153	10,509	195,119,820.30	
Sep 2019	ZAGB	Future	23,418	18.8533	18.8507	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	12,845	19.1297	19.1272	0.0000	0.0000	0	0.00	
Mar 2020	ZAGB	Future	4,674	19.4322	19.4265	0.0000	0.0000	0	0.00	
			159,499					10,509.00	195,119,820.30	14 718 676.00
		<b>Total</b>						<b>10,509.00</b>	<b>195,119,820.30</b>	<b>16 509 489.00</b>
										<b>253 180 399 392.40</b>
<b>Option</b>										
Jun 2019	ZAGB	18.00 Call	1,000	732.5471	737.2911	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	19.15 Put	500	855.6638	860.5252	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	18.75 Put	500	689.5513	695.7995	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	22.13 Call	500	203.5430	206.7724	0.0000	0.0000	0	0.00	
			2,500					0.00	0.00	1 790 813.00
		<b>Total</b>	<b>161,999</b>					<b>10,509.00</b>	<b>195,119,820.30</b>	<b>16 509 489.00</b>
										<b>253 180 399 392.40</b>
<b>Future</b>										
Jun 2019	ZAKS	Future	2,166	0.1391	0.1380	0.0000	0.0000	0	0.00	
			2,166					0.00	0.00	38 066.00
		<b>Total</b>	<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	<b>38 066.00</b>
										<b>515 662 000.00</b>
<b>Future</b>										
Sep 2019	ZANZ	Future	646	9.7201	9.6688	0.0000	0.0000	0	0.00	
			646					0.00	0.00	147 042.00
		<b>Total</b>	<b>646</b>					<b>0.00</b>	<b>0.00</b>	<b>167 042.00</b>
										<b>1 130 048 204.60</b>
<b>Future</b>										
Jun 2019	ZATR	Future	3,646	2.3513	2.3348	0.0000	0.0000	0	0.00	
			3,646					0.00	0.00	556 277.00
		<b>Total</b>	<b>3,646</b>					<b>0.00</b>	<b>0.00</b>	<b>556 277.00</b>
										<b>1 668 453 313.10</b>
<b>Future</b>										
Jun 2019	ZAUM	Future	454	14.1740	14.1085	14.1282	14.1282	5	7,064,100.00	
			454					5.00	7,064,100.00	156 788.00
		<b>Total</b>	<b>454</b>					<b>5.00</b>	<b>7,064,100.00</b>	<b>161 311.00</b>
										<b>182 284 460 340.00</b>
<b>Future</b>										
Jun 2019	ZAUS	Future	870,577	14.1740	14.1085	14.2162	14.1150	44,652	632,934,871.90	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Sep 2019	ZAUS	Future	27,488	14.3340	14.2665	14.2831	14.2831	500	7,141,550.00		
Dec 2019	ZAUS	Future	22,753	14.4867	14.4182	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	10,345	14.6525	14.5815	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	Future	700	14.8097	14.7407	0.0000	0.0000	0	0.00		
			<u>931,863</u>					<u>45,152.00</u>	<u>640,076,421.90</u>	<u>202 758 405.00</u>	<u>2 462 906 108 423.90</u>

Option

Jun 2019	ZAUS	10.69 Put	1,000	0.0843	0.1056	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	2.7156	3.2320	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	6.4606	7.3993	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	8.1756	9.9257	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.92 Put	2,100	14.4134	17.7344	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	17.4398	21.5129	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	18.5631	22.9137	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.10 Put	14,000	25.1533	31.1046	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.22 Put	122,704	35.5749	43.9614	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	37.6203	46.4703	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	38.6785	47.7682	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.28 Put	122,704	42.0029	51.8333	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.30 Put	143,800	44.3477	54.6945	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.35 Put	4,317	50.6835	62.3946	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	7,500	749.8547	701.9704	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	673.7294	629.0733	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Put	700	99.7294	120.5733	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	172.8055	201.4072	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	474.3318	439.7957	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.91 Put	1,000	204.4693	235.7676	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	428.8640	396.9824	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	15,000	418.0085	386.7814	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	244.0085	278.2814	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.06 Put	2,100	272.6566	308.8577	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	277.6079	314.1275	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	347.7687	389.5343	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,982	377.7180	420.8983	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	408.8081	453.3385	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	264.9986	245.3120	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	241.8212	223.8260	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	195.8995	181.3065	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	639.3816	691.2276	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	654.5979	706.8041	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.66 Call	122,704	176.2538	163.1358	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.72 Call	122,704	162.8173	150.7126	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.75 Call	2,000	156.4901	144.8638	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	14.82 Call	30,000	142.6793	132.0215	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	17,500	112.2299	103.6628	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	2,900	98.1222	90.6836	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	75.1527	69.5493	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	73.1877	67.7419	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	146,182	57.7816	53.5596	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.58 Call	1,380	52.0867	46.9095	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.60 Call	143,800	50.7588	45.3683	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	47.4996	42.4241	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.66 Call	122,704	45.9402	41.0185	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.73 Call	122,704	40.8402	36.4301	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	36.2642	32.3192	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	31.0756	27.6639	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	29.5047	26.2569	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	5,020	25.6688	22.8234	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	21.9117	19.4659	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	2.9163	2.8126	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	3.1310	3.4522	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	36.5746	40.8115	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.87 Put	9,783	61.6439	69.6938	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.02 Put	17,287	81.7895	93.4098	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.15 Put	11,333	104.5647	118.3330	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	124.9657	140.4953	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.65 Call	5,666	919.6012	876.5026	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.70 Put	2,000	253.7560	279.2458	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.75 Put	1,000	272.7304	299.3116	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.77 Put	28,500	280.5532	307.5691	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.80 Put	14,000	292.5309	320.1979	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.90 Put	5,908	334.5897	364.4167	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.92 Put	2,149	343.3954	373.6469	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	365.9737	397.2887	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.00 Put	1,000	379.9063	411.8582	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.04 Call	1,000	692.9326	658.2227	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.12 Put	177	438.5057	472.9481	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	485.4083	521.6655	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.25 Call	500	591.0470	560.5934	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.30 Put	9,783	534.7659	573.5948	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.36 Put	111	569.1646	609.9389	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.46 Put	17,287	630.1508	672.7312	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.50 Call	14,000	489.3177	465.0951	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.50 Put	14,000	655.3177	698.5951	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.65 Put	3,000	753.4470	799.1961	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	14.70 Put	1,000	787.4130	833.9324	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.75 Call	1,000	405.9756	385.7449	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.82 Put	1,000	871.3294	919.6090	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.85 Put	3,000	892.8140	941.5151	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.00 Call	750	337.0942	320.2680	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.03 Call	177	329.6957	313.2822	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.16 Call	111	299.7395	284.8698	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1301.6430	1356.5172	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.51 Call	28,500	233.0090	221.5452	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1450.9149	1507.3656	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	180.4813	171.3935	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	16.66 Call	2,149	103.7946	98.8396	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	16.67 Call	14,000	103.1000	98.1825	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.12 Call	17,287	76.8097	73.4789	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.18 Call	9,783	73.9447	71.3051	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	71.9096	69.5664	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	58.9484	57.4662	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	53.6439	52.5040	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	51.8187	50.7941	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	41.7628	41.3581	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	23.5248	26.3385	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	12.87 Put	139,860	114.5408	125.9090	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.00 Put	49,600	136.4642	149.5903	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.03 Put	69,000	141.9445	156.0853	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	315.4736	340.5654	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.80 Put	500	368.6384	397.8662	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.94 Put	139,860	429.7470	461.6149	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.00 Put	34,000	457.5237	490.5073	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.07 Put	1,351	491.1142	525.3751	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.08 Put	4,150	496.0121	530.4603	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.10 Put	52,300	505.8935	540.7017	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.11 Put	24,055	510.8725	545.8623	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.12 Put	69,000	515.8768	551.0433	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.41 Put	49,600	671.7296	711.9639	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	15.80 Call	250	349.1952	337.5228	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.13 Call	52,300	293.5426	283.2421	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.20 Call	50,100	282.8060	272.9677	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.25 Call	21,000	275.4107	265.8952	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.35 Call	4,150	261.2792	252.3769	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.37 Call	500	258.5540	249.7713	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.55 Call	24,055	235.4712	227.6867	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.85 Call	1,351	202.1865	195.8346	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	16.99 Call	69,000	188.6002	182.8249	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.02 Call	139,860	185.8318	180.1773	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	156.2317	153.7335	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	52.3806	50.1341	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	28.0576	31.8855	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	12.96 Put	277,778	172.1350	189.1032	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	13.06 Put	275,862	196.2719	214.9837	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	13.19 Put	272,897	230.8329	249.9725	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	13.78 Put	60,000	420.3034	448.8370	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	517.9961	552.2685	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.40 Put	277,778	717.6881	758.3400	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.51 Put	275,862	779.7851	822.1300	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.66 Put	272,897	868.3081	912.8106	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	16.60 Call	277,778	368.9268	360.0308	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	16.81 Call	275,862	338.5147	330.6848	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.04 Call	272,897	308.6940	301.9031	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	241.3789	240.1877	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.88 Call	60,000	233.3271	232.4510	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	11.90 Put	900	49.7502	55.1048	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	14.25 Put	900	681.0405	718.1162	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	17.26 Call	900	409.0256	402.3111	0.0000	0.0000	0	0.00		
			<u>5,858,642</u>					<i>0.00</i>	<i>0.00</i>	<i>71 813 316.00</i>	<i>0.00</i>
	<b>Total</b>		<b>6,790,505</b>					<b>45,152.00</b>	<b>640,076,421.90</b>	<b>274 571 721.00</b>	<b>2 462 906 108 423.90</b>
	<b>Grand Total</b>		<b>8,841,893</b>					<b>62,599.00</b>	<b>952 537 906.20</b>	<b>375,537,600</b>	<b>3,416,002,681,062.02</b>