



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 27-March-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
<b>Future</b>									
Mar 2019	DAEU	Future	53	16.4213	16.2956	0.0000	0.0000	0	0.00
Apr 2019	DAEU	Future	4	16.4795	16.3535	0.0000	0.0000	0	0.00
Apr 2019	DAEU	Future	1	16.5166	16.3901	0.0000	0.0000	0	0.00
			<u>58</u>					<u>0.00</u>	<u>0.00</u>
									<u>816 161.00</u>
									<u>12 205 003 574.10</u>
<b>Option</b>									
Aug 2019	DAEU	19.65 Call	0	115.4621	97.2565	0.0000	0.0000	42,400	0.00
Feb 2020	DAEU	16.65 Call	21,000	1442.8620	1336.9985	0.0000	0.0000	0	0.00
Feb 2020	DAEU	16.91 Call	15,000	1304.9080	1205.5187	0.0000	0.0000	0	0.00
Feb 2020	DAEU	17.00 Call	15,000	1260.0995	1162.9900	0.0000	0.0000	0	0.00
Feb 2020	DAEU	17.07 Call	15,000	1226.2717	1130.9448	0.0000	0.0000	0	0.00
			<u>66,000</u>					<u>42,400.00</u>	<u>0.00</u>
									<u>1 812 387.00</u>
									<u>0.00</u>
		<b>Total</b>	<b>66,058</b>					<b>42,400.00</b>	<b>0.00</b>
									<b>2 628 548.00</b>
									<b>12 205 003 574.10</b>
<b>Future</b>									
Mar 2019	DAGB	Future	80	19.2682	19.0860	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	43	19.3247	19.1424	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	120	19.3607	19.1776	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	27	19.3705	19.1873	0.0000	0.0000	0	0.00
May 2019	DAGB	Future	91	19.4755	19.2912	0.0000	0.0000	0	0.00
			<u>361</u>					<u>0.00</u>	<u>0.00</u>
									<u>67 017.00</u>
									<u>1 124 307 659.30</u>
		<b>Total</b>	<b>361</b>					<b>0.00</b>	<b>0.00</b>
									<b>274 330.00</b>
									<b>1 124 307 659.30</b>
<b>Future</b>									
Mar 2019	DAUS	Future	30,000	14.5905	14.4180	0.0000	0.0000	400	5,767,200.00
Mar 2019	DAUS	Future	3,409	14.5922	14.4198	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	10,000	14.5975	14.4250	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	14.5992	14.4267	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	30,000	14.6027	14.4302	0.0000	0.0000	600	8,658,120.00
Apr 2019	DAUS	Future	2,025	14.6045	14.4320	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,830	14.6220	14.4492	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	349	14.6414	14.4681	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	15	14.6467	14.4733	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	4,576	14.6484	14.4750	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	303	14.6609	14.4872	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	25,000	14.6644	14.4907	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	93	14.6715	14.4977	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	387	14.6999	14.5257	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	416	14.7035	14.5292	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.7107	14.5362	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	2,607	14.7540	14.5785	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.7595	14.5838	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	1,217	14.8145	14.6373	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.8164	14.6390	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	2,072	14.8698	14.6907	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.8753	14.6961	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.8790	14.6998	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	3,617	14.8956	14.7161	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	98	14.9270	14.7470	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.9308	14.7507	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	153	14.9860	14.8046	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	Future	97	15.0421	14.8595	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.0479	14.8651	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	15.0518	14.8689	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	45	15.1040	14.9196	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1079	14.9235	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1650	14.9795	0.0000	0.0000	0	0.00		
Feb 2020	DAUS	Future	3,500	15.2195	15.0336	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.2256	15.0394	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2889	15.0997	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3478	15.1542	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.4220	15.2227	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.5401	15.3384	0.0000	0.0000	0	0.00		
			<u>207,938</u>					<u>1,000.00</u>	<u>14,425,320.00</u>	<u>11 960 273.00</u>	<u>148 877 383 174.80</u>
<b>Option</b>											
Mar 2019	DAUS	13.84 Call	15,000	750.5950	578.8974	0.0000	0.0000	300	0.00		
Mar 2019	DAUS	14.00 Call	6,500	590.9517	421.8021	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	14.18 Call	15,000	412.8574	254.5584	0.0000	0.0000	300	0.00		
Mar 2019	DAUS	14.50 Put	20,000	35.6177	137.4258	0.0000	0.0000	400	0.00		
Mar 2019	DAUS	13.00 Put	500	0.0052	0.0571	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	13.45 Put	600	0.1642	0.8248	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	13.87 Call	600	723.5021	557.5221	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	14.20 Put	250	10.8240	37.5711	0.0000	0.0000	0	0.00		

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Mar 2019	DAUS	14.25 Put	250	14.6960	47.5091	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	227.5173	113.3678	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	66.9810	37.4564	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	2.2712	1.3525	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	0.2699	0.1682	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.00 Call	30,000	619.8732	463.5532	0.0000	0.0000	600	0.00
Apr 2019	DAUS	13.76 Put	100	5.9739	10.5533	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	0	45.2190	81.2024	0.0000	0.0000	35,000	0.00
Apr 2019	DAUS	14.35 Call	100	334.9588	217.9938	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.40 Put	35,000	95.8319	0.0000	0.0000	0.0000	35,000	0.00
Apr 2019	DAUS	14.40 Call	20,000	358.7201	256.6076	0.0000	0.0000	400	0.00
Apr 2019	DAUS	14.44 Call	60,000	335.2866	237.9600	0.0000	0.0000	1,200	0.00
Apr 2019	DAUS	14.45 Call	40,000	329.6080	233.4729	0.0000	0.0000	883	0.00
Apr 2019	DAUS	14.20 Call	25,000	519.5529	394.9104	0.0000	0.0000	500	0.00
Apr 2019	DAUS	14.50 Call	50,000	330.8851	239.1437	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.55 Call	25,000	305.0885	219.7366	0.0000	0.0000	500	0.00
Apr 2019	DAUS	13.00 Put	3,000	3.4124	4.5750	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1171.5968	1003.9757	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	104.8263	157.7329	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	120.4093	178.0662	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	224.1824	166.0100	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	71.6121	50.9666	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	42.4720	29.2628	0.0000	0.0000	0	0.00
May 2019	DAUS	13.72 Call	50,000	981.4243	823.4696	0.0000	0.0000	1,000	0.00
May 2019	DAUS	14.20 Call	50,000	596.2172	478.0824	0.0000	0.0000	1,000	0.00
May 2019	DAUS	14.25 Call	61,000	613.0651	500.0603	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	200.6228	157.9002	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	151.1149	117.9067	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	9.1538	9.8730	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	189.7160	244.3934	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	207.9744	266.0573	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	309.0061	246.0684	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	140.2010	109.3896	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	98.2092	74.9404	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.83 Put	45,000	100.2858	130.8054	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.06 Put	18,000	161.0115	204.5939	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	190.2855	239.2818	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	18,000	226.5056	281.6977	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	26.7755	25.7306	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.02 Put	29,000	179.6346	217.4070	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	241.2083	288.6446	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	260.3414	310.5713	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	15.17 Call	500	354.6547	284.4095	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.33 Call	29,000	310.2104	247.5310	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	184.3268	144.7474	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	137.8025	106.1694	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	44.4277	46.0174	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	284.5560	333.0853	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	304.3578	355.3674	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	399.9337	329.4934	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	229.7239	186.4734	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	179.7276	144.1304	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	420.3999	482.7411	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	224.8332	182.8118	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	59.4087	64.0422	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	316.9414	366.9220	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	337.1741	389.3632	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	428.1157	358.5691	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	261.9784	215.8435	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	209.3305	171.5203	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	81.4943	69.7263	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	72.7153	80.4042	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	345.8111	395.2268	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	366.2701	417.7286	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	459.2556	389.9179	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	293.8732	245.7957	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	237.9251	198.2161	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	84.8978	95.1311	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	374.6716	421.6959	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	393.8566	444.2887	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	484.5743	415.8874	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	321.6105	272.8393	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	265.7699	224.8592	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	93.8688	106.5965	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	398.0247	442.3270	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	417.2702	464.9398	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	509.9471	441.2824	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	347.1022	297.3909	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	291.3388	249.0622	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	101.5860	116.9772	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	420.5091	462.5063	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	439.7817	485.1096	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	534.0241	465.9635	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.05 Call	250	373.8113	323.4944	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	17.44 Call	250	318.2246	275.0581	0.0000	0.0000	0	0.00	
			773,794					77,083.00	0.00	24 427 312.00
		<b>Total</b>	<b>981,732</b>					<b>78,083.00</b>	<b>14,425,320.00</b>	36 387 585.00 148 877 383 174.80
<b>Future</b>										
Jun 2019	EUUS	Future	5	1.1327	1.1375	0.0000	0.0000	0	0.00	
			5					0.00	0.00	745 994.00 8 462 928 145.00
		<b>Total</b>	<b>5</b>					<b>0.00</b>	<b>0.00</b>	745 994.00 8 462 928 145.00
<b>Future</b>										
Jun 2019	GBUS	Future	5	1.3254	1.3286	0.0000	0.0000	0	0.00	
Dec 2019	GBUS	Future	2,219	1.3362	1.3397	0.0000	0.0000	0	0.00	
			2,224					0.00	0.00	176 170.00 2 268 656 737.00
		<b>Total</b>	<b>2,224</b>					<b>0.00</b>	<b>0.00</b>	176 170.00 2 268 656 737.00
<b>Future</b>										
Jun 2019	ZAAD	Future	17,564	10.4430	10.4012	10.4500	10.3898	404	4,198,035.00	
Sep 2019	ZAAD	Future	1,763	10.5843	10.5392	10.5234	10.5234	250	2,630,850.00	
Dec 2019	ZAAD	Future	400	10.7222	10.6747	0.0000	0.0000	0	0.00	
			19,727					654.00	6,828,885.00	3 869 890.00 33 937 874 697.60
<b>Option</b>										
Dec 2019	ZAAD	11.00 Call	1,000	354.2470	321.5535	0.0000	0.0000	0	0.00	
			1,000					0.00	0.00	34 377.00 0.00
		<b>Total</b>	<b>20,727</b>					<b>654.00</b>	<b>6,828,885.00</b>	3 904 267.00 33 937 874 697.60
<b>Future</b>										
Jun 2019	ZACA	Future	2,350	11.0001	10.8941	10.9457	10.9457	150	1,641,855.00	
Sep 2019	ZACA	Future	150	11.1526	11.0433	11.0855	11.0855	250	2,771,375.00	
			2,500					400.00	4,413,230.00	156 013.00 1 553 029 895.10
		<b>Total</b>	<b>2,500</b>					<b>400.00</b>	<b>4,413,230.00</b>	156 013.00 1 553 029 895.10
<b>Future</b>										
Jun 2019	ZADK	Future	450	2.2355	2.2186	0.0000	0.0000	0	0.00	
			450					0.00	0.00	13 825.00 298 500 189.00
		<b>Total</b>	<b>450</b>					<b>0.00</b>	<b>0.00</b>	13 825.00 298 500 189.00
<b>Future</b>										
Jun 2019	ZAEU	Future	121,728	16.6827	16.5547	16.7380	16.5706	33	549,777.30	
Sep 2019	ZAEU	Future	42,345	17.0077	16.8750	0.0000	0.0000	120	2,054,436.00	
Dec 2019	ZAEU	Future	32,686	17.3182	17.1822	0.0000	0.0000	0	0.00	
Mar 2020	ZAEU	Future	4,361	17.6604	17.5213	0.0000	0.0000	0	0.00	

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			201,120					153.00	2,604,213.30	16 667 138.00	241 770 408 917.50
<b>Option</b>											
	Jun 2019	ZAEU	15.35 Put	570	49.7830	57.3379	0.0000	0.0000	0	0.00	
	Jun 2019	ZAEU	16.64 Call	300	511.3694	434.8103	0.0000	0.0000	0	0.00	
	Jun 2019	ZAEU	16.73 Put	500	519.6252	576.5239	0.0000	0.0000	0	0.00	
	Sep 2019	ZAEU	15.62 Put	14,429	167.7265	176.6023	0.0000	0.0000	0	0.00	
	Sep 2019	ZAEU	15.85 Put	587	224.7811	0.0000	0.0000	0.0000	587	0.00	
	Sep 2019	ZAEU	18.27 Call	14,429	357.1167	312.3759	0.0000	0.0000	0	0.00	
	Sep 2019	ZAEU	18.60 Call	40,000	299.0236	260.4535	0.0000	0.0000	0	0.00	
	Dec 2019	ZAEU	13.73 Put	17,150	24.7664	22.4307	0.0000	0.0000	0	0.00	
	Dec 2019	ZAEU	14.09 Put	136,646	36.4072	36.7247	0.0000	0.0000	0	0.00	
	Dec 2019	ZAEU	15.70 Put	136,646	231.0168	242.0652	0.0000	0.0000	0	0.00	
	Dec 2019	ZAEU	16.15 Put	17,150	359.4795	377.8730	0.0000	0.0000	0	0.00	
	Dec 2019	ZAEU	19.79 Call	136,646	320.0458	288.1052	0.0000	0.0000	0	0.00	
	Dec 2019	ZAEU	20.62 Call	17,150	232.9519	210.7390	0.0000	0.0000	0	0.00	
			532,203					587.00	0.00	11 701 000.00	0.00
	<b>Total</b>		<b>733,323</b>					<b>740.00</b>	<b>2,604,213.30</b>	<b>28 368 138.00</b>	<b>241 770 408 917.50</b>
<b>Future</b>											
	Jun 2019	ZAFR	Future	893	14.9130	14.7487	0.0000	0.0000	0	0.00	
			893					0.00	0.00	632 252.00	6 836 290 145.90
	<b>Total</b>		<b>893</b>					<b>0.00</b>	<b>0.00</b>	<b>632 252.00</b>	<b>6 836 290 145.90</b>
<b>Future</b>											
	Jun 2019	ZAGB	Future	121,720	19.5219	19.3368	19.5783	19.3400	3,490	67,728,747.50	
	Sep 2019	ZAGB	Future	21,179	19.8365	19.6463	0.0000	0.0000	0	0.00	
	Dec 2019	ZAGB	Future	12,846	20.1354	19.9417	0.0000	0.0000	0	0.00	
	Mar 2020	ZAGB	Future	4,674	20.4624	20.2664	0.0000	0.0000	0	0.00	
			160,419					3,490.00	67,728,747.50	14 641 624.00	251 738 355 189.40
<b>Option</b>											
	Jun 2019	ZAGB	18.00 Call	1,000	1637.6868	1469.9201	0.0000	0.0000	0	0.00	
	Dec 2019	ZAGB	18.75 Put	500	488.2351	518.0572	0.0000	0.0000	0	0.00	
	Dec 2019	ZAGB	22.13 Call	500	471.7324	409.9876	0.0000	0.0000	0	0.00	
			2,000					0.00	0.00	1 790 313.00	0.00
	<b>Total</b>		<b>162,419</b>					<b>3,490.00</b>	<b>67,728,747.50</b>	<b>16 431 937.00</b>	<b>251 738 355 189.40</b>
<b>Future</b>											
	Jun 2019	ZAKS	Future	2,166	0.1440	0.1423	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>	<b>38 066.00</b>	<b>515 662 000.00</b>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
<b>Future</b>										
Sep 2019	ZANZ	Future	646	10.1577	10.1978	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	3,646	2.4555	2.4669	0.0000	0.0000	40,000	100,720,000.00	
			<u>3,646</u>					<u>40,000.00</u>	<u>100,720,000.00</u>	<u>556 277.00</u>
		<b>Total</b>	<b>3,646</b>					<b>40,000.00</b>	<b>100,720,000.00</b>	<b>556 277.00</b>
<b>Future</b>										
Jun 2019	ZAUM	Future	485	14.7287	14.5538	0.0000	0.0000	0	0.00	
			<u>485</u>					<u>0.00</u>	<u>0.00</u>	<u>156 708.00</u>
		<b>Total</b>	<b>485</b>					<b>0.00</b>	<b>0.00</b>	<b>161 231.00</b>
<b>Future</b>										
Jun 2019	ZAUS	Future	831,628	14.7287	14.5538	14.8050	14.5952	94,070	1,382,694,047.80	
Sep 2019	ZAUS	Future	26,306	14.9011	14.7215	14.7806	14.7803	2,471	36,796,907.00	
Dec 2019	ZAUS	Future	22,743	15.0691	14.8857	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	10,345	15.2539	15.0665	0.0000	0.0000	0	0.00	
Jun 2020	ZAUS	Future	700	15.4438	15.2429	0.0000	0.0000	0	0.00	
			<u>891,722</u>					<u>96,541.00</u>	<u>1,419,490,954.80</u>	<u>201 997 688.00</u>
<b>Option</b>										
Jun 2019	ZAUS	10.69 Put	1,000	0.2901	0.3118	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.28 Put	1,000	6.4734	6.5940	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.65 Put	1,050	10.5705	10.8441	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.75 Put	1,000	12.1053	12.4575	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.92 Put	2,100	15.2942	15.8435	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.98 Put	911	16.6282	17.2727	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.00 Put	165,703	17.1006	17.7802	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.10 Put	14,000	19.6903	20.6038	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.22 Put	122,704	23.3735	30.1199	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.24 Put	30,000	24.0568	31.9920	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.25 Put	4,582	24.4100	32.9606	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.28 Put	122,704	26.7515	36.0018	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.30 Put	143,800	28.4067	38.1465	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.35 Put	4,317	32.8940	43.9300	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.50 Call	7,500	1278.3611	1119.0587	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.60 Call	700	1192.6479	1036.9526	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.60 Put	700	63.9479	83.1526	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.83 Put	25,000	107.8420	136.9982	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.90 Call	100	953.2755	811.2598	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	13.91 Put	1,000	127.1021	160.5521	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	894.4691	757.0959	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	23,500	880.1230	743.9501	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	151.4230	190.1501	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.06 Put	2,100	169.5619	211.6608	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	172.7170	215.3849	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	217.1454	267.4362	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,982	235.9446	289.2478	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	255.6987	312.0477	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	655.1045	539.6275	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	615.6931	504.5444	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.44 Put	31,500	316.0728	381.0668	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	532.5135	431.9489	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	409.7531	488.2635	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	420.3806	500.5534	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.66 Call	122,704	494.4465	400.5528	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.72 Call	122,704	467.3920	378.4450	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.75 Call	1,000	454.3359	367.8387	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.78 Call	250	442.1701	0.0000	0.0000	0.0000	250	0.00
Jun 2019	ZAUS	14.82 Call	30,000	426.4227	344.2048	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	17,500	361.9305	290.1259	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	2,900	330.2996	263.8861	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	275.0783	218.5353	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	270.0999	214.4188	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	146,182	229.2059	180.8326	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.58 Call	1,380	213.0889	167.7475	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.60 Call	143,800	209.2488	164.6395	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	201.7863	158.6049	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.66 Call	122,704	198.1614	155.6799	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.73 Call	122,704	186.0095	145.8909	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	174.6546	136.7742	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	161.1408	125.9638	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	156.8937	122.5740	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	5,020	146.1529	114.0221	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	135.0269	104.4666	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	22.7228	14.7990	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	4.6602	4.4737	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	31.8849	34.9296	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.87 Put	9,783	55.4442	61.0517	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.02 Put	17,287	68.5331	75.6099	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.15 Put	11,333	81.8912	90.4890	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	93.5848	103.5259	0.0000	0.0000	0	0.00



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Sep 2019	ZAUS	13.65 Call	5,666	1416.6108	1262.0921	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.70 Put	2,000	177.5661	204.1863	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.77 Put	28,500	195.4359	224.2936	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.90 Put	5,908	231.7798	0.0000	0.0000	0.0000	5,908	0.00
Sep 2019	ZAUS	13.97 Put	800	253.0914	288.8220	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.00 Put	1,000	262.6038	299.4249	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.12 Put	177	302.9586	347.6978	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	337.2650	386.6423	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.30 Put	9,783	374.6180	427.9002	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.36 Put	111	400.7654	456.6743	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.46 Put	17,287	446.5303	506.8416	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.50 Call	14,000	866.6965	749.1727	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.65 Put	3,000	540.8596	609.5501	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.70 Put	1,000	567.2470	638.1339	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.85 Put	3,000	650.1825	729.0144	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.00 Call	750	640.5017	546.6841	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.03 Call	177	629.0602	536.5204	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.16 Call	111	581.7802	494.6800	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	988.7508	1089.9841	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.51 Call	28,500	471.7527	398.4376	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1116.8100	1225.0623	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	381.9849	321.2614	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.12 Call	17,287	188.8661	155.9173	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.18 Call	9,783	182.8063	150.8549	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	177.9289	146.7877	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	143.2980	118.0143	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	128.7434	109.6722	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	124.3072	106.8515	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	105.2819	91.1154	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	15.9207	15.8014	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	12.87 Put	139,860	80.5934	92.8606	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.00 Put	49,600	98.4132	112.2993	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	233.9766	259.4242	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.80 Put	500	273.1314	302.4836	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.94 Put	139,860	316.3473	349.8643	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.00 Put	26,500	336.1349	371.5128	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.07 Put	1,351	360.1895	397.7873	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.08 Put	4,150	363.7151	401.6320	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.10 Put	52,300	370.8222	409.3845	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.11 Put	24,055	374.4079	0.0000	0.0000	0.0000	24,055	0.00
Dec 2019	ZAUS	14.41 Put	49,600	495.6508	550.2474	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	15.80 Call	250	598.6672	521.5200	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	16.13 Call	52,300	515.4494	448.1055	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.20 Call	50,100	499.5681	434.1633	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.25 Call	26,000	488.5728	424.5252	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.35 Call	4,150	467.4383	406.0224	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.37 Call	500	463.3412	402.2514	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.55 Call	24,055	428.3510	0.0000	0.0000	0.0000	24,055	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	374.8106	322.8957	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.02 Call	139,860	347.7418	299.3522	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	297.7043	256.0291	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	130.6556	107.8941	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	34.2997	30.4374	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	12.96 Put	277,778	131.0827	140.7346	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	13.06 Put	275,862	148.5974	159.9967	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	13.78 Put	60,000	324.2050	0.0000	0.0000	0.0000	60,000	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	398.9103	431.0844	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.40 Put	277,778	548.0965	594.5855	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.51 Put	275,862	595.6601	649.2200	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	16.60 Call	277,778	597.2573	527.5261	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	16.81 Call	275,862	553.6498	487.6115	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	399.7072	351.5268	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.88 Call	60,000	379.9871	0.0000	0.0000	0.0000	60,000	0.00		
Jun 2020	ZAUS	11.90 Put	900	51.0154	52.5863	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	14.25 Put	900	544.8817	595.5288	0.0000	0.0000	0	0.00		
Jun 2020	ZAUS	17.26 Call	900	662.5053	594.2068	0.0000	0.0000	0	0.00		
			<u>4,818,903</u>					<u>174,268.00</u>	<u>0.00</u>	<u>70 363 678.00</u>	<u>0.00</u>
<b>Total</b>			<b>5,710,625</b>					<b>270,809.00</b>	<b>1,419,490,954.80</b>	<b>272 361 366.00</b>	<b>2 451 997 105 092.10</b>
<b>Grand Total</b>			<b>7,688,260</b>					<b>436,576.00</b>	<b>1 616 211 350.60</b>	<b>372,391,911</b>	<b>3,400,498,393,411.32</b>