



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 31-January-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
<b>Future</b>											
Feb 2019	DAEU	Future	29	15.3327	15.6303	0.0000	0.0000	27	413,982.90		
Mar 2019	DAEU	Future	53	15.4249	15.7249	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	15.4787	15.7795	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	15.5135	15.8148	0.0000	0.0000	0	0.00		
			<u>87</u>					<u>27.00</u>	<u>413,982.90</u>	<u>816 077.00</u>	<u>12 203 645 019.40</u>
<b>Option</b>											
Feb 2019	DAEU	15.80 Put	0	536.6097	313.9160	0.0000	0.0000	25,000	0.00		
Aug 2019	DAEU	17.01 Put	0	1467.3500	1261.7460	0.0000	0.0000	32,400	0.00		
Aug 2019	DAEU	19.65 Call	62,400	75.1384	102.5333	0.0000	0.0000	0	0.00		
			<u>62,400</u>					<u>57,400.00</u>	<u>0.00</u>	<u>1 617 987.00</u>	<u>0.00</u>
<b>Total</b>			<b>62,487</b>					<b>57,427.00</b>	<b>413,982.90</b>	<b>2 434 064.00</b>	<b>12 203 645 019.40</b>
<b>Future</b>											
Jan 2019	DAGB	Future	0	17.4096	17.8083	0.0000	0.0000	27	470,059.20		
Feb 2019	DAGB	Future	47	17.4902	17.8929	0.0000	0.0000	42	735,806.40		
Mar 2019	DAGB	Future	80	17.5767	17.9821	0.0000	0.0000	4	70,422.40		
Apr 2019	DAGB	Future	43	17.6277	18.0338	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	17.6607	18.0672	0.0000	0.0000	0	0.00		
			<u>290</u>					<u>73.00</u>	<u>1,276,288.00</u>	<u>66 748.00</u>	<u>1 119 363 051.20</u>
<b>Total</b>			<b>290</b>					<b>73.00</b>	<b>1,276,288.00</b>	<b>274 061.00</b>	<b>1 119 363 051.20</b>
<b>Future</b>											
Jan 2019	DAUS	Future	0	13.2827	13.6168	0.0000	0.0000	1,248	16,576,809.60		
Feb 2019	DAUS	Future	70	13.3021	13.6379	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.3051	13.6411	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,759	13.3251	13.6620	0.0000	0.0000	210	2,798,481.00		
Mar 2019	DAUS	Future	74	13.3314	13.6685	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	13.3330	13.6701	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.3675	13.7059	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,860	13.3706	13.7091	0.0000	0.0000	342	4,600,242.00		

<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	55	13.3770	13.7157	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	260	13.3980	13.7369	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	349	13.4157	13.7548	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	15	13.4206	13.7597	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	319	13.4222	13.7614	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	264	13.4732	13.8140	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	74	13.4799	13.8208	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	359	13.5196	13.8620	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	13.5246	13.8671	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	26	13.5751	13.9181	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	13.5768	13.9198	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	65	13.6257	13.9695	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	13.6308	13.9747	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	74	13.6342	13.9781	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	53	13.6780	14.0232	0.0000	0.0000	53	725,135.40
Oct 2019	DAUS	Future	55	13.6814	14.0268	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	108	13.7301	14.0782	0.0000	0.0000	53	728,087.50
Dec 2019	DAUS	Future	55	13.7833	14.1333	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	321	13.7866	14.1369	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	13.8344	14.1879	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	13.8854	14.2388	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	13.9396	14.2933	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	13.9939	14.3478	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.0412	14.3953	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	14.1028	14.4575	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	14.2046	14.5603	0.0000	0.0000	0	0.00
			<u>101,527</u>					<u>1,906.00</u>	<u>25,428,755.50</u>
									<u>11 038 115.00</u>
									<u>135 730 909 780.00</u>
<b>Option</b>									
Feb 2019	DAUS	13.76 Put	684	483.7197	232.2460	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.81 Call	684	23.6847	97.2532	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.87 Put	22,000	583.5592	309.4493	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.75 Put	25,000	498.3296	265.7139	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	75.1189	22.3790	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	463.1362	243.6779	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	900.6531	609.5726	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	22.5763	64.1797	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	947.4763	652.1797	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	11.0276	34.8765	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	6.0326	20.4711	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	1.7348	5.9795	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	0.7802	2.5272	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	678.2829	430.9137	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	15.15 Call	27,500	6.4618	18.7846	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	650.6574	426.8768	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	747.4973	508.0734	0.0000	0.0000	100,000	0.00
Mar 2019	DAUS	13.00 Put	500	140.7021	68.8167	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	351.2309	203.9720	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	146.6918	264.6733	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	918.2849	659.6594	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	961.7098	698.4213	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	65.3906	128.0602	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	43.3787	87.3834	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	10.2672	26.8986	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	4.9979	14.3169	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	572.5686	372.4759	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	85.0883	158.0612	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	192.9451	113.4917	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	359.9108	552.1412	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	940.1763	703.2200	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	981.2308	739.7875	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	78.9048	135.5579	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	32.3831	60.4761	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	21.9717	42.1298	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	236.8874	154.9992	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	964.8133	745.3600	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	1004.1126	780.3969	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	113.2969	181.3873	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	55.3679	93.7784	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	40.4015	69.6672	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	269.6917	187.9617	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	984.0988	776.5785	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	1022.1969	810.6005	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	140.0662	216.0067	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	74.7435	120.7114	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	56.9320	93.3589	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	0	489.3704	358.8070	0.0000	0.0000	39,250	0.00
Jul 2019	DAUS	16.44 Call	0	55.8029	91.4554	0.0000	0.0000	39,250	0.00
Jul 2019	DAUS	13.00 Put	500	302.0258	222.1283	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	1002.6476	807.5247	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	1039.6101	840.5984	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	169.8750	254.0437	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	97.1265	151.2826	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	77.2831	120.8491	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	1220.7107	1008.7907	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	16.35 Call	3,147	98.6262	150.6138	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	326.9526	247.8696	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.20 Put	250	1019.9755	832.6595	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	1056.1460	865.1260	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	195.7145	282.5230	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	119.0076	177.4839	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	98.5170	144.8079	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	25.6368	49.8105	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	348.5907	271.1315	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	1034.3669	853.7809	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	1069.8403	885.7008	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	222.4977	311.5327	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	142.5352	204.2424	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	120.8673	170.1475	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	370.8400	293.5572	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	1048.8919	872.8516	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	1083.7373	904.2997	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	244.9309	335.2331	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	165.5128	227.4922	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	143.2029	194.4487	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	389.7637	313.2987	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	1060.9538	890.1241	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	1095.2819	921.1471	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	266.3040	358.2941	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	187.2188	249.6939	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	164.2890	217.2755	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	408.3668	332.4784	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	1072.2302	905.8329	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	1106.0458	936.4322	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	287.4805	381.4087	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	210.3923	273.8906	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	186.8182	243.1541	0.0000	0.0000	0	0.00		
			<u>257,462</u>					<u>178,500.00</u>	<u>0.00</u>	<u>22 488 583.00</u>	<u>0.00</u>
<b>Total</b>			<b>358,989</b>					<b>180,406.00</b>	<b>25,428,755.50</b>	<b>33 526 698.00</b>	<b>135 730 909 780.00</b>
<b>Future</b>											
Mar 2019	EUUS	Future	5	1.1525	1.1459	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1612	1.1546	0.0000	0.0000	0	0.00		
			<u>587</u>					<u>0.00</u>	<u>0.00</u>	<u>745 402.00</u>	<u>8 456 173 900.00</u>
<b>Total</b>			<b>587</b>					<b>0.00</b>	<b>0.00</b>	<b>745 402.00</b>	<b>8 456 173 900.00</b>

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Mar 2019	GBUS	Future	5	1.3138	1.3109	0.0000	0.0000	0	0.00		
			5					0.00	0.00	171 722.00	2 209 540 628.00
		<b>Total</b>	<b>5</b>					<b>0.00</b>	<b>0.00</b>	171 722.00	2 209 540 628.00
<b>Future</b>											
Mar 2019	ZAAD	Future	5,780	9.7240	9.8476	9.7000	9.6946	41	397,532.60		
Jun 2019	ZAAD	Future	15,741	9.8393	9.9649	9.8291	9.8155	400	3,929,600.00		
Sep 2019	ZAAD	Future	513	9.9676	10.0950	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.0878	10.2207	0.0000	0.0000	0	0.00		
			22,434					441.00	4,327,132.60	3 849 037.00	33 723 494 069.40
<b>Option</b>											
Dec 2019	ZAAD	11.00 Call	1,000	189.1003	240.6074	0.0000	0.0000	0	0.00		
			1,000					0.00	0.00	34 377.00	0.00
		<b>Total</b>	<b>23,434</b>					<b>441.00</b>	<b>4,327,132.60</b>	3 883 414.00	33 723 494 069.40
<b>Future</b>											
Mar 2019	ZACA	Future	500	10.1637	10.3768	10.1417	10.1417	250	2,535,425.00		
Jun 2019	ZACA	Future	650	10.2935	10.5095	10.2741	10.2741	250	2,568,525.00		
Sep 2019	ZACA	Future	400	10.4339	10.6521	10.4092	10.4092	100	1,040,920.00		
			1,550					600.00	6,144,870.00	150 113.00	1 488 920 940.10
		<b>Total</b>	<b>1,550</b>					<b>600.00</b>	<b>6,144,870.00</b>	150 113.00	1 488 920 940.10
<b>Future</b>											
Mar 2019	ZAEU	Future	143,448	15.3899	15.6890	15.5230	15.3596	1,901	29,337,965.70		
Jun 2019	ZAEU	Future	29,425	15.6721	15.9775	15.8193	15.8193	187	2,974,913.50		
Sep 2019	ZAEU	Future	21,186	15.9819	16.2939	15.9546	15.9546	250	3,988,650.00		
Dec 2019	ZAEU	Future	17,899	16.2751	16.6006	0.0000	0.0000	0	0.00		
			211,958					2,338.00	36,301,529.20	16 188 359.00	233 892 697 178.80
<b>Option</b>											
Mar 2019	ZAEU	16.00 Call	650	105.9092	191.2523	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	181.5387	241.3296	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	71.3372	54.2775	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	820.6610	695.8152	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	204.0922	240.0499	0.0000	0.0000	0	0.00		
			107,100					0.00	0.00	10 956 876.00	0.00
		<b>Total</b>	<b>319,058</b>					<b>2,338.00</b>	<b>36,301,529.20</b>	27 145 235.00	233 892 697 178.80
<b>Future</b>											
Mar 2019	ZAFR	Future	1,143	13.4834	13.7732	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	13.7440	14.0397	0.0000	0.0000	0	0.00		
			1,293					0.00	0.00	626 580.00	6 754 562 099.60

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<b>Total</b>			<b>1,293</b>					<b>0.00</b>	<b>0.00</b>	626 580.00	6 754 562 099.60
<b>Future</b>											
Mar 2019	ZAGB	Future	398,074	17.5439	17.9483	17.7045	17.5003	9,432	165,575,873.50		
Jun 2019	ZAGB	Future	5,764	17.8093	18.2202	17.9535	17.9535	1,100	19,748,850.00		
Sep 2019	ZAGB	Future	15,609	18.0982	18.5161	18.0972	18.0972	2	36,194.40		
Dec 2019	ZAGB	Future	12,690	18.3679	18.7989	0.0000	0.0000	0	0.00		
			<b>432,137</b>					<b>10,534.00</b>	<b>185,360,917.90</b>	<b>13 849 265.00</b>	<b>236 847 394 383.50</b>
<b>Option</b>											
Mar 2019	ZAGB	18.00 Put	500	637.1978	397.6345	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	33.7586	84.4926	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1669.7952	1304.3014	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	7.4448	17.7013	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	5.9504	13.9129	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	2.2734	3.0586	0.0000	0.0000	0	0.00		
			<b>6,500</b>					<b>0.00</b>	<b>0.00</b>	<b>1 783 113.00</b>	<b>0.00</b>
<b>Total</b>			<b>438,637</b>					<b>10,534.00</b>	<b>185,360,917.90</b>	<b>15 632 378.00</b>	<b>236 847 394 383.50</b>
<b>Future</b>											
Mar 2019	ZAJY	Future	10,000	0.1234	0.1253	0.0000	0.0000	0	0.00		
			<b>10,000</b>					<b>0.00</b>	<b>0.00</b>	<b>1 091 937.00</b>	<b>12 363 272 053.60</b>
<b>Total</b>			<b>10,000</b>					<b>0.00</b>	<b>0.00</b>	<b>1 091 937.00</b>	<b>12 363 272 053.60</b>
<b>Future</b>											
Jun 2019	ZAKS	Future	2,166	0.1315	0.1335	0.0000	0.0000	0	0.00		
			<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	<b>38 066.00</b>	<b>515 662 000.00</b>
<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	9.4916	9.5988	0.0000	0.0000	433	4,129,954.00		
			<b>646</b>					<b>433.00</b>	<b>4,129,954.00</b>	<b>146 792.00</b>	<b>1 127 677 204.60</b>
<b>Total</b>			<b>646</b>					<b>433.00</b>	<b>4,129,954.00</b>	<b>166 792.00</b>	<b>1 127 677 204.60</b>
<b>Future</b>											
Mar 2019	ZASD	Future	1,200	9.9338	10.1358	0.0000	0.0000	0	0.00		
			<b>1,200</b>					<b>0.00</b>	<b>0.00</b>	<b>10 726.00</b>	<b>109 054 884.50</b>
<b>Total</b>			<b>1,200</b>					<b>0.00</b>	<b>0.00</b>	<b>10 726.00</b>	<b>109 054 884.50</b>
<b>Future</b>											
Mar 2019	ZATR	Future	30,000	2.5159	2.5266	0.0000	0.0000	5,000	12,520,000.00		
			<b>30,000</b>					<b>5,000.00</b>	<b>12,520,000.00</b>	<b>425 239.00</b>	<b>1 333 174 069.00</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>Total</b>			<b>30,000</b>					<b>5,000.00</b>	<b>12,520,000.00</b>	425 239.00	1 333 174 069.00
<b>Future</b>											
Mar 2019	ZAUM	Future	422	13.3534	13.6913	0.0000	0.0000	0	0.00		
Jun 2019	ZAUM	Future	10	13.4964	13.8380	0.0000	0.0000	0	0.00		
			<b>432</b>					<b>0.00</b>	<b>0.00</b>	<b>155 505.00</b>	<b>180 428 410 410.00</b>
<b>Total</b>			<b>432</b>					<b>0.00</b>	<b>0.00</b>	<b>160 028.00</b>	<b>180 428 410 410.00</b>
<b>Future</b>											
Mar 2019	ZAUS	Future	548,534	13.3534	13.6913	13.4600	13.3096	267,167	3,574,532,657.70		
Jun 2019	ZAUS	Future	104,633	13.4964	13.8380	13.5987	13.4618	2,181	29,601,799.90		
Sep 2019	ZAUS	Future	14,327	13.6544	13.9989	13.7402	13.6678	3,058	41,983,577.60		
Dec 2019	ZAUS	Future	10,100	13.8015	14.1527	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	4,566	13.9641	14.3179	0.0000	0.0000	0	0.00		
			<b>682,160</b>					<b>272,406.00</b>	<b>3,646,118,035.20</b>	<b>194 771 923.00</b>	<b>2 348 464 016 365.50</b>
<b>Option</b>											
Mar 2019	ZAUS	10.33 Put	1,000	0.0670	0.0011	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	11.74 Put	1,000	2.3198	1.2757	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.47 Put	721	22.8435	8.8488	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.51 Put	720	25.8463	10.2525	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.80 Put	7,520	64.1841	27.5889	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.90 Put	16,000	88.0342	37.6260	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.92 Put	139,342	93.4560	39.9592	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.00 Put	15,434	117.4274	50.5252	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.05 Put	1,155	134.3209	59.5616	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.12 Put	138,000	160.5067	74.1175	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.15 Put	10,125	172.6472	81.0723	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.25 Put	225,407	217.1127	107.5548	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.33 Put	135,043	257.0838	132.5702	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.36 Put	134,750	273.3566	142.8628	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.46 Put	20,000	333.3069	180.8392	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.50 Put	22,050	358.8365	197.6269	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.55 Put	10,000	391.9219	219.9022	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.60 Put	6,570	426.2444	243.6022	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.62 Put	6,432	440.3051	253.4780	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.68 Put	14,200	483.5679	284.4562	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.70 Put	2,500	498.3345	295.2262	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.72 Put	10,000	513.2669	306.7750	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.75 Put	0	535.9667	324.5032	0.0000	0.0000	35,962	0.00		
Mar 2019	ZAUS	13.79 Put	262,812	566.7736	348.8776	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.82 Put	2,100	590.2660	367.6987	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.85 Put	1,000	614.0751	386.9684	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	13.86 Put	721	622.0795	393.4891	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	654.4245	420.0476	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	98.9582	195.5806	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	90.8163	180.9066	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	29,200	737.4163	489.6066	0.0000	0.0000	15,312	0.00
Mar 2019	ZAUS	14.04 Put	7,100	771.1836	518.6177	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	63.5833	131.9970	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	58.1511	121.9313	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	981.7174	704.9582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	53.1842	112.6219	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	999.7842	721.3219	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	1045.2450	762.7166	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	1128.0407	838.6726	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	1137.3103	847.2076	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	39.9939	87.0673	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	38.5979	84.2545	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	37.2528	81.5315	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	1183.8528	890.2315	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	1211.9246	916.3104	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	1240.0993	942.5768	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	1325.1876	1022.4187	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	1410.7207	1103.6682	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	21.3105	49.8221	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1477.4739	1167.7140	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1487.0454	1176.9184	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1496.6259	1186.1370	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1506.2141	1195.3686	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	14.0389	35.9746	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1699.5055	1382.4221	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1757.9703	1438.8177	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1777.4993	1457.6690	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1787.2708	1467.1106	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	9.8034	26.2757	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1845.9960	1523.9662	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1855.7987	1533.4752	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	8.8159	23.8202	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	8.2707	22.4521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1973.7243	1648.2444	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	6.0052	16.6604	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	5.3961	15.0693	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	5.2817	14.7692	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	3,050	4.8481	13.6244	0.0000	0.0000	224,707	0.00



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Mar 2019	ZAUS	15.54 Call	721	4.4499	12.5656	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	3.4403	9.8434	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	2.4940	7.2356	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	2.3894	6.9432	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	2.1012	6.1339	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	1.6607	4.8834	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	1.6263	3.7255	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	1.6157	3.3563	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	1.5951	2.6115	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	1.5852	2.2087	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	1.5713	1.8508	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	1.5707	1.8430	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	1.5812	1.7415	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	1.5821	1.7397	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	1.5865	1.7309	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	1.5927	1.7216	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	1.5938	1.7202	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	1.5949	1.7189	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	1.6118	1.7045	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	1.6225	1.6993	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	1.2226	1.6926	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	0.4551	1.1746	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	0.2000	0.5463	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	4.5734	3.5574	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	67.3329	48.3455	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	141.1831	93.6142	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	168.2291	112.6526	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	245.9271	166.7349	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	253.7638	172.1574	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	359.1590	248.9016	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	364.0003	252.6521	0.0000	0.0000	3,300	0.00
Jun 2019	ZAUS	13.60 Call	700	452.6821	643.1623	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	705.7823	527.2407	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	740.2356	556.3981	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	350.5978	506.3913	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	327.4645	475.5313	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	825.5239	630.1022	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	876.8802	674.9716	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	975.1457	761.7567	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	1013.7809	796.2718	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	238.9069	355.0915	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	225.1086	336.0134	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	14.58 Call	1,000	196.6518	296.2521	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	1322.1739	1076.8274	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	1339.0415	1092.3891	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	161.0090	245.4833	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	20,000	137.6934	213.5493	0.0000	0.0000	5,000	0.00
Jun 2019	ZAUS	15.10 Call	1,500	126.1740	197.7891	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	104.2672	166.8660	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	145,182	89.3711	144.5367	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	80.7272	131.4351	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	79.3775	129.3794	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	69.4272	114.1252	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	64.4408	106.4138	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	62.8678	103.9710	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	58.8781	97.7540	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	54.7228	91.2462	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	9.4572	28.6542	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	9.4688	7.7105	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	175.9392	133.9529	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	451.9906	346.9918	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.70 Put	2,000	697.6891	0.0000	0.0000	0.0000	2,000	0.00
Sep 2019	ZAUS	13.97 Put	800	869.3484	703.0866	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.00 Put	1,000	889.4034	720.7285	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	0	950.6613	775.1949	0.0000	0.0000	33,715	0.00
Sep 2019	ZAUS	14.21 Put	2,700	1034.8051	850.5443	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	1121.5969	928.8626	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1966.5327	1719.9319	0.0000	0.0000	10,000	0.00
Sep 2019	ZAUS	15.56 Put	2,571	2121.9476	1867.7913	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	180.2504	258.4622	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	93.0680	133.5131	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	79.5853	115.2468	0.0000	0.0000	5,000	0.00
Sep 2019	ZAUS	17.85 Call	2,700	71.1947	107.4094	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	67.1985	104.6539	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	45.1979	80.6383	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	0	40.1006	72.5497	0.0000	0.0000	33,715	0.00
Sep 2019	ZAUS	19.32 Call	33,151	23.6852	45.5618	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	91.5064	60.8140	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	726.7640	593.9953	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.07 Put	1,351	979.5586	819.2375	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.85 Call	1,351	204.8282	271.1493	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	17.38 Call	1,000	172.8264	226.5588	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	20.00 Call	2,000	44.8290	73.2729	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	11.91 Put	1,000	109.5853	76.1402	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 2020	ZAUS	14.01 Put	1,000	980.1019	835.2458	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	17.73 Call	1,000	257.4500	322.9837	0.0000	0.0000	0	0.00
			<u>4,520,851</u>					<u>368,711.00</u>	<u>0.00</u>
		<b>Total</b>	<b>5,203,011</b>					<b>641,117.00</b>	<b>3,646,118,035.20</b>
									<u>64 531 215.00</u>
									<u>0.00</u>
									<u>259 303 138.00</u>
									<u>2 348 464 016 365.50</u>

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<b>Grand Total</b>	<b>6,453,785</b>							<b>898,369.00</b>	<b>3 922 021 465.30</b>	<b>354,546,574</b>	<b>3,260,343,594,855.53</b>
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