



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 31-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
<b>Future</b>									
Jan 2019	DAEU	Future	4,830	16.5110	16.5630	0.0000	0.0000	0	0.00
Feb 2019	DAEU	Future	29	16.6367	16.6942	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.6900	16.7474	0.0000	0.0000	0	0.00
			<u>4,912</u>					<u>0.00</u>	<u>0.00</u>
									<u>811 215.00</u>
									<u>12 127 077 435.00</u>
<b>Option</b>									
Jan 2019	DAEU	15.85 Put	13,000	2.3523	6.7429	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	800.6405	779.5771	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	337.1075	353.7666	0.0000	0.0000	0	0.00
			<u>91,600</u>					<u>0.00</u>	<u>0.00</u>
									<u>1 510 587.00</u>
									<u>0.00</u>
		<b>Total</b>	<b>96,512</b>					<b>0.00</b>	<b>0.00</b>
									<b>2 321 802.00</b>
									<b>12 127 077 435.00</b>
<b>Future</b>									
Jan 2019	DAGB	Future	4,112	18.3779	18.3341	0.0000	0.0000	0	0.00
Jan 2019	DAGB	Future	27	18.4069	18.3655	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.4942	18.4538	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.5866	18.5457	0.0000	0.0000	0	0.00
			<u>4,266</u>					<u>0.00</u>	<u>0.00</u>
									<u>62 358.00</u>
									<u>1 041 064 928.30</u>
		<b>Total</b>	<b>4,266</b>					<b>0.00</b>	<b>0.00</b>
									<b>269 671.00</b>
									<b>1 041 064 928.30</b>
<b>Future</b>									
Dec 2018	DAUS	Future	0	14.3808	14.4102	0.0000	0.0000	2,592	37,293,312.00
Jan 2019	DAUS	Future	55	14.3821	14.4102	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	125	14.3951	14.4203	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	324	14.4032	14.4290	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.4048	14.4308	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	126	14.4064	14.4325	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,901	14.4129	14.4395	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	51	14.4193	14.4465	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,018	14.4274	14.4552	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	2,602	14.4291	14.4569	0.0000	0.0000	952	13,744,690.40

<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>		
Feb 2019	DAUS	Future	70	14.4515	14.4798	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.4550	14.4833	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.4727	14.5010	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,098	14.4780	14.5063	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.4851	14.5133	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.4869	14.5151	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.5259	14.5540	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	5,111	14.5295	14.5576	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.5366	14.5647	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.5884	14.6159	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.6458	14.6726	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.6532	14.6799	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.6977	14.7238	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.7033	14.7293	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.7618	14.7874	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.8222	14.8474	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.8260	14.8511	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.8789	14.9036	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.9348	14.9600	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.9966	15.0221	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	15.0005	15.0260	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0565	15.0824	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1175	15.1436	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.1830	15.2091	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2485	15.2746	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3056	15.3317	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.3774	15.4036	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.4957	15.5219	0.0000	0.0000	0	0.00		
			<u>110,551</u>					<u>3,544.00</u>	<u>51,038,002.40</u>	<u>11 023 991.00</u>	<u>135 535 058 072.00</u>
<b>Option</b>											
Jan 2019	DAUS	13.57 Put	600	2.6601	1.9969	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.93 Call	600	465.6893	492.7046	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.35 Call	600	117.1449	156.1571	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.64 Put	250	6.0626	4.7745	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.12 Call	250	321.3976	349.4538	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.65 Call	250	56.7086	77.6602	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.86 Put	174	29.8040	37.1775	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.00 Call	174	458.8362	493.4378	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.29 Put	218	152.6591	160.6368	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.36 Call	218	229.0704	261.7493	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	12.66 Put	263	1.3595	1.6441	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.00 Put	500	7.1208	6.5864	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	14.20 Put	250	199.6907	196.5481	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	220.9832	217.4272	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	331.6779	354.7078	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	104.2367	118.0440	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	58.7908	68.7953	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	22.5861	21.7442	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	287.7716	280.2469	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	310.2446	302.3789	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	406.8650	425.3721	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	182.5351	195.3505	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	122.1816	132.5494	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	210.7648	205.2395	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	246.9318	261.6687	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	222.9950	218.2059	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	266.7046	261.3501	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	50.0347	48.4015	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	355.3994	349.1104	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	378.4654	371.9147	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	464.9952	484.1324	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	244.8859	259.1625	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	180.4287	192.5618	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	201.1431	196.2019	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	633.4378	654.2659	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	76.5655	74.1795	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1261.4341	1283.2506	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	411.5037	403.5654	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	434.9950	427.0086	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	514.4867	532.5954	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	300.5899	315.5552	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	236.3917	249.6151	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	102.0766	96.3333	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	457.8856	449.6125	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	481.6173	473.3308	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	554.7861	572.3600	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	346.8703	362.1195	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	280.5157	294.5548	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	760.5008	752.1873	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	179.7511	190.9190	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	122.7134	115.4221	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	494.0335	485.2072	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	517.8902	509.1030	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	584.6765	601.8161	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	15.96 Call	250	382.0284	397.2883	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	314.8545	329.0578	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	224.3759	215.2226	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	305.2811	320.2956	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	141.8805	132.8706	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	529.6689	519.8658	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	553.7078	543.9270	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	623.6901	639.5456	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	425.5475	439.8321	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	357.9551	371.8656	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	683.6711	674.2242	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	414.1571	427.8576	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	157.4857	146.9918	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	558.5557	548.2074	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	582.6939	572.3417	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	648.8545	663.8663	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	456.4338	470.3035	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	387.7707	400.7899	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	179.1262	189.3076	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	169.2441	160.7483	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	583.7244	573.6570	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	607.9129	597.8140	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	679.9446	693.8367	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	489.7383	502.4093	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	418.5059	430.5066	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	180.1350	173.2870	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	608.6042	597.9826	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	632.8007	622.1346	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	703.3925	716.7237	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	516.8758	529.0931	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	447.6689	459.3137	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	197.0213	188.8412	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	630.5798	619.4234	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	653.4752	642.2757	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	728.7286	741.5582	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	543.9736	555.8275	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	476.1842	487.5442	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	211.9668	203.6067	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	651.8525	641.1639	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	674.7483	664.1458	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	753.5255	766.2459	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.05 Call	250	573.2210	585.2090	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	17.44 Call	250	506.8626	518.1467	0.0000	0.0000	0	0.00	
			329,591					0.00	0.00	22 142 853.00
		<b>Total</b>	<b>440,142</b>					<b>3,544.00</b>	<b>51,038,002.40</b>	33 166 844.00 135 535 058 072.00
<b>Future</b>										
Mar 2019	EUUS	Future	10	1.1509	1.1527	0.0000	0.0000	0	0.00	
Jun 2019	EUUS	Future	582	1.1597	1.1614	0.0000	0.0000	0	0.00	
			592					0.00	0.00	745 367.00
		<b>Total</b>	<b>592</b>					<b>0.00</b>	<b>0.00</b>	745 367.00 8 455 769 280.00
<b>Future</b>										
Mar 2019	GBUS	Future	400	1.2785	1.2733	0.0000	0.0000	0	0.00	
			400					0.00	0.00	171 207.00
		<b>Total</b>	<b>400</b>					<b>0.00</b>	<b>0.00</b>	171 207.00 2 202 856 108.00
<b>Future</b>										
Mar 2019	ZAAD	Future	5,944	10.2576	10.2642	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	15,743	10.3861	10.3906	10.4100	10.4100	250	2,602,500.00	
Sep 2019	ZAAD	Future	0	10.5259	10.5291	10.5489	10.5489	100	1,054,890.00	
Dec 2019	ZAAD	Future	400	10.6602	10.6627	0.0000	0.0000	0	0.00	
			22,087					350.00	3,657,390.00	3 841 746.00
										33 649 634 681.70
<b>Option</b>										
Dec 2019	ZAAD	11.00 Call	1,000	464.0376	467.9817	0.0000	0.0000	0	0.00	
			1,000					0.00	0.00	34 377.00
		<b>Total</b>	<b>23,087</b>					<b>350.00</b>	<b>3,657,390.00</b>	3 876 123.00 33 649 634 681.70
<b>Future</b>										
Mar 2019	ZACA	Future	2,100	10.6787	10.6787	10.6793	10.6783	2,350	25,082,600.00	
Sep 2019	ZACA	Future	250	10.9658	10.9624	0.0000	0.0000	0	0.00	
			2,350					2,350.00	25,082,600.00	146 263.00
		<b>Total</b>	<b>2,350</b>					<b>2,350.00</b>	<b>25,082,600.00</b>	146 263.00 1 448 001 020.10
<b>Future</b>										
Mar 2019	ZAEU	Future	123,587	16.6999	16.7575	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	Future	24,250	17.0149	17.0705	17.0379	17.0379	500	8,518,950.00	
Sep 2019	ZAEU	Future	10,459	17.3593	17.4135	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	Future	277	17.6904	17.7450	0.0000	0.0000	0	0.00	
			158,573					500.00	8,518,950.00	16 032 248.00
										231 383 594 424.90
<b>Option</b>										
Mar 2019	ZAEU	16.00 Call	650	909.8572	953.7958	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	617.5943	639.9036	0.0000	0.0000	0	0.00	

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Dec 2019	ZAEU	13.73 Put	17,150	57.8462	57.6925	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	447.3789	434.1391	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	485.5625	500.5376	0.0000	0.0000	0	0.00	
			<u>107,100</u>					<i>0.00</i>	<i>0.00</i>	<i>10 956 876.00</i>
	<b>Total</b>		<b>265,673</b>					<b>500.00</b>	<b>8,518,950.00</b>	26 989 124.00 231 383 594 424.90
<b>Future</b>										
Mar 2019	ZAFR	Future	1,143	14.8358	14.9363	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	15.1306	15.2321	15.1398	15.1398	100	1,513,980.00	
			<u>1,293</u>					<i>100.00</i>	<i>1,513,980.00</i>	<i>626 030.00 6 746 589 074.60</i>
	<b>Total</b>		<b>1,293</b>					<b>100.00</b>	<b>1,513,980.00</b>	626 030.00 6 746 589 074.60
<b>Future</b>										
Mar 2019	ZAGB	Future	397,720	18.5514	18.5107	0.0000	0.0000	0	0.00	
Jun 2019	ZAGB	Future	5,764	18.8362	18.7923	18.8091	18.8091	500	9,404,550.00	
Sep 2019	ZAGB	Future	16,150	19.1445	19.0967	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	247	19.4379	19.3904	0.0000	0.0000	0	0.00	
			<u>419,881</u>					<i>500.00</i>	<i>9,404,550.00</i>	<i>13 787 071.00 235 704 577 153.20</i>
<b>Option</b>										
Mar 2019	ZAGB	18.00 Put	500	348.4549	369.2474	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	415.7710	409.8541	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	993.8960	1030.2191	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	177.2917	176.9053	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	151.3809	151.3908	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	42.5425	41.4838	0.0000	0.0000	0	0.00	
			<u>6,500</u>					<i>0.00</i>	<i>0.00</i>	<i>1 783 113.00 0.00</i>
	<b>Total</b>		<b>426,381</b>					<b>500.00</b>	<b>9,404,550.00</b>	15 570 184.00 235 704 577 153.20
<b>Future</b>										
Jun 2019	ZAKS	Future	2,166	0.1397	0.1408	0.0000	0.0000	0	0.00	
			<u>2,166</u>					<i>0.00</i>	<i>0.00</i>	<i>38 066.00 515 662 000.00</i>
	<b>Total</b>		<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	38 066.00 515 662 000.00
<b>Future</b>										
Mar 2019	ZATR	Future	14,000	2.6393	2.6515	0.0000	0.0000	0	0.00	
			<u>14,000</u>					<i>0.00</i>	<i>0.00</i>	<i>409 239.00 1 293 087 569.00</i>
	<b>Total</b>		<b>14,000</b>					<b>0.00</b>	<b>0.00</b>	409 239.00 1 293 087 569.00
<b>Future</b>										
Mar 2019	ZAUM	Future	416	14.5099	14.5381	14.5217	14.5217	35	50,771,350.00	
			<u>416</u>					<i>35.00</i>	<i>50,771,350.00</i>	<i>155 295.00 180 133 202 260.00</i>

<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>416</b>					<b>35.00</b>	<b>50,771,350.00</b>	159 818.00	180 133 202 260.00
<b>Future</b>											
Mar 2019	ZAUS	Future	485,050	14.5099	14.5381	14.5600	14.4907	5,135	74,704,542.70		
Jun 2019	ZAUS	Future	112,532	14.6718	14.6982	14.6901	14.6901	500	7,345,050.00		
Sep 2019	ZAUS	Future	14,250	14.8486	14.8736	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	Future	9,900	15.0178	15.0435	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	4,566	15.2126	15.2387	0.0000	0.0000	0	0.00		
			<b>626,298</b>					<b>5,635.00</b>	<b>82,049,592.70</b>	<b>193 323 900.00</b>	<b>2 328 386 453 146.20</b>
<b>Option</b>											
Mar 2019	ZAUS	10.33 Put	1,000	0.4184	0.4019	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	11.74 Put	1,000	6.3389	5.9451	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.47 Put	721	17.8458	17.5570	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.51 Put	720	18.8899	18.6229	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.80 Put	8,132	28.5432	28.5202	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.90 Put	16,000	32.9188	33.0196	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.92 Put	139,342	33.8712	33.9996	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.00 Put	15,434	37.9703	38.2180	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.05 Put	1,155	40.7809	41.1114	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.12 Put	138,000	48.0157	46.3483	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.15 Put	10,125	51.4057	49.6467	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.25 Put	225,407	64.0633	61.9693	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.33 Put	135,043	75.7984	73.4104	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.36 Put	134,750	80.5940	78.0863	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.46 Put	20,000	98.2252	95.2981	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.50 Put	2,550	106.0197	102.9130	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.55 Put	10,000	116.3878	113.0444	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.60 Put	6,570	127.4685	123.8793	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.62 Put	6,432	132.1049	128.4147	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.68 Put	14,200	146.7377	142.7326	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.70 Put	2,500	151.8581	147.7473	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.72 Put	10,000	157.1046	152.8824	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.75 Put	17,981	165.2065	160.8180	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.79 Put	262,812	176.4556	171.8385	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.82 Put	1,800	185.5639	180.7810	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.85 Put	1,000	195.1395	190.2223	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.86 Put	721	198.3995	193.4402	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.90 Put	720	211.7934	206.6530	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.00 Call	100	757.6451	780.2424	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.00 Put	35,606	247.7451	242.1424	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.04 Put	7,100	263.1192	257.3292	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.20 Call	2,000	640.2114	661.8390	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	14.25 Call	750	613.0724	634.4468	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	367.3092	360.3311	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	586.8096	607.9291	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	376.9096	369.8291	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	401.5208	394.1761	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	447.9844	440.1607	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	453.3184	445.4410	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	508.5834	528.8521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	499.4164	519.5769	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	490.3822	510.4318	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	480.4822	472.3318	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	497.6315	488.8629	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	515.0752	505.8333	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	569.1366	559.3415	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	625.7066	615.3588	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	374.6549	392.1365	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	671.3628	660.5836	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	677.9990	667.1589	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	684.6659	673.7624	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	691.3583	680.3940	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	312.0153	328.2679	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	830.8342	818.6432	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	874.6423	862.0862	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	889.4345	876.7590	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	896.8641	884.1288	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	266.7118	281.9360	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	941.9207	928.8239	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	949.5068	936.3509	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	254.6465	269.5701	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	247.6647	262.4094	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1042.1581	1028.2831	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	215.4085	229.1438	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	205.6107	218.9855	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	203.7057	217.0063	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	196.2611	209.2768	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	192.6399	205.5167	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	189.0881	201.8248	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	169.1260	181.0439	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	147.1678	158.1179	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	144.4712	155.2968	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	136.6834	147.1436	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	123.2169	133.3375	0.0000	0.0000	0	0.00



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Mar 2019	ZAUS	16.13 Call	138,000	108.6435	118.0397	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	103.5141	112.6396	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	92.1825	100.6853	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	85.3410	93.4483	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	70.4303	77.6193	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	69.0967	76.1975	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	49.1145	54.8084	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	48.6547	54.3140	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	46.4270	51.9133	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	43.8955	49.1813	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	43.4884	48.7419	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	43.0845	48.3059	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	38.1900	43.0066	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	35.8049	40.4167	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	29.3490	33.4786	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	17.1408	18.8962	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	11.1490	11.8370	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	5.4802	4.7789	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	38.3254	34.2139	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	79.5264	73.9126	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	109.6784	103.4675	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	112.6693	106.4141	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	154.6897	146.9818	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	322.2516	313.9638	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	340.2594	332.0217	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1071.6571	1088.8285	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	388.1694	378.9488	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	418.0817	408.8923	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	476.9576	467.8678	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	838.0184	855.6016	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	764.8066	782.6407	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	701.3428	692.8642	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	712.8380	704.3932	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	666.3681	684.0959	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	567.0395	584.3488	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	499.4146	516.3913	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	143,900	450.6475	467.0581	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	421.1588	437.2170	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	416.4493	432.4477	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	380.7585	396.2943	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	362.1624	377.4386	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	356.1857	371.3769	0.0000	0.0000	0	0.00

