



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 21-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Jan 2019	DAEU	Future	4,830	16.4589	16.3770	0.0000	0.0000	0	0.00
Feb 2019	DAEU	Future	29	16.5898	16.5088	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.6409	16.5602	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>
Option									
Jan 2019	DAEU	15.85 Put	13,000	23.0198	30.8272	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	838.9846	865.6166	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	344.4465	320.1832	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>
		Total	96,512					0.00	0.00
									2 321 802.00
									12 127 077 435.00
Future									
Jan 2019	DAGB	Future	4,112	18.2321	18.0850	0.0000	0.0000	0	0.00
Jan 2019	DAGB	Future	27	18.2644	18.1178	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.3522	18.2049	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.4432	18.2957	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>
		Total	4,266					0.00	0.00
									269 671.00
									1 041 064 928.30
Future									
Dec 2018	DAUS	Future	0	14.3518	14.2233	0.0000	0.0000	160	2,296,288.00
Dec 2018	DAUS	Future	285	14.3535	14.2243	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	1,952	14.3579	14.2272	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.3608	14.2292	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	324	14.3836	14.2538	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.3854	14.2557	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	126	14.3872	14.4700	0.0000	0.0000	126	1,823,220.00
Jan 2019	DAUS	Future	1,901	14.3944	14.2656	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	51	14.4016	14.2732	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,018	14.4106	14.2820	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>		
Jan 2019	DAUS	Future	1,655	14.4123	14.2837	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.4353	14.3065	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.4388	14.3100	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.4564	14.3276	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,098	14.4617	14.3329	0.0000	0.0000	978	14,242,125.00		
Mar 2019	DAUS	Future	74	14.4689	14.3399	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.4706	14.3417	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.5098	14.3807	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	14.5134	14.3843	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.5206	14.3915	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.5714	14.4421	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.6277	14.4981	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.6349	14.5054	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.6785	14.5490	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.6841	14.5546	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.7416	14.6124	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.8010	14.6720	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.8048	14.6758	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.8570	14.7282	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.9121	14.7831	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.9730	14.8438	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.9768	14.8476	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0332	14.9044	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0941	14.9656	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.1592	15.0310	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2243	15.0965	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2810	15.1534	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.3524	15.2252	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.4700	15.3433	0.0000	0.0000	0	0.00		
			<u>110,961</u>					<u>1,264.00</u>	<u>18,361,633.00</u>	<u>11 019 122.00</u>	<u>135 464 643 487.10</u>
Option											
Dec 2018	DAUS	13.00 Put	500	0.1873	0.4321	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.80 Put	1,000	13.1869	27.1216	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.22 Call	500	227.9032	149.5273	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.25 Put	250	100.6995	156.8616	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.96 Put	250	616.9854	741.0439	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	16.93 Call	500	0.0448	0.0343	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	17.58 Call	500	0.0691	0.0693	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.57 Put	600	5.3812	10.5987	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.93 Call	600	465.8758	359.0530	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.35 Call	600	179.0825	119.4549	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.64 Put	250	10.1115	18.7883	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	14.12 Call	250	340.6924	255.6492	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	102.8006	69.6750	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	60.8607	86.1476	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	479.6132	384.7614	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.29 Put	218	207.2419	266.0006	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.36 Call	218	265.8111	202.1020	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	2.2948	3.4775	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	8.6374	13.2748	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	231.2512	280.8333	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	253.7735	306.4212	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	350.4117	284.3857	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	125.8332	97.7060	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	76.7780	58.9692	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	26.0320	32.1153	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	309.5759	359.3684	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	332.7476	384.9336	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	417.0961	355.2718	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	195.3944	163.1090	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	134.7062	112.1496	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	226.8337	265.8456	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	258.9546	219.3575	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	236.9102	273.7001	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	282.2410	323.6688	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	53.0171	61.0382	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	373.4829	422.5627	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	397.1739	448.2049	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	472.6965	412.3608	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	256.3075	220.6597	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	192.2393	165.2029	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	213.3087	244.6541	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	637.3667	561.9820	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	81.0393	88.4967	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1254.5809	1146.7982	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	429.6828	475.2341	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	453.6776	500.9942	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	521.7074	460.7547	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	311.5887	272.5573	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	247.9959	215.9674	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	107.5358	116.8360	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	476.2350	519.0446	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	500.4129	544.8162	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	561.5337	500.1838	0.0000	0.0000	0	0.00

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May 2019	DAUS	15.79 Call	250	357.6437	316.1289	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	291.6137	255.9571	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	783.1319	840.1430	0.0000	0.0000	93	0.00
Jun 2019	DAUS	17.22 Call	20,000	190.7790	167.3680	0.0000	0.0000	93	0.00
Jun 2019	DAUS	13.00 Put	500	128.9787	139.8647	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	511.8303	553.5819	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	536.1705	579.3205	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	591.4682	530.5418	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	392.8230	350.0864	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	326.4523	288.7398	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	236.1077	255.0144	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	317.2214	280.9104	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	147.5708	162.2314	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	547.4399	588.3077	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	571.9483	614.0946	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	630.4442	569.8176	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	436.0202	391.3358	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	369.1583	329.7633	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	704.4300	751.3390	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	424.2924	381.0627	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	163.0034	181.0360	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	576.4428	616.1787	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	601.0219	641.9791	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	655.4797	596.3649	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	466.4409	420.4465	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	398.4038	358.5935	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	192.6367	176.7250	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	177.7663	196.3524	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	602.3644	641.3707	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	626.9748	667.1485	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	686.4208	628.1357	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	498.9583	453.0557	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	428.7008	388.8701	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	194.3189	208.4303	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	627.0712	664.5115	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	651.7015	690.2413	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	709.9501	651.9266	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	525.6923	480.3009	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	457.4282	417.4572	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	208.9736	223.9227	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	648.0974	684.2894	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	672.6972	709.9547	0.0000	0.0000	0	0.00

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Nov 2019	DAUS	16.03 Call	500	735.0612	677.1921	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	16.87 Call	250	552.6673	506.8380	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	17.26 Call	250	485.7061	445.0386	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	13.00 Put	500	223.8917	237.5908	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.20 Put	250	671.1754	704.4108	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	694.5523	730.0227	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	761.5913	704.6335	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	583.4263	537.7414	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	517.6209	476.9017	0.0000	0.0000	0	0.00	
			<u>333,091</u>					<u>186.00</u>	<u>0.00</u>	<u>22 142 853.00</u>
	Total		444,052					1,450.00	18,361,633.00	33 161 975.00
										135 464 643 487.10
Future										
Jun 2019	EUUS	Future	582	1.1579	1.1626	0.0000	0.0000	0	0.00	
			<u>582</u>					<u>0.00</u>	<u>0.00</u>	<u>745 357.00</u>
	Total		582					0.00	0.00	745 357.00
										8 455 654 010.00
Future										
Mar 2019	GBUS	Future	400	1.2701	1.2712	0.0000	0.0000	0	0.00	
			<u>400</u>					<u>0.00</u>	<u>0.00</u>	<u>171 207.00</u>
	Total		400					0.00	0.00	171 207.00
										2 202 856 108.00
Future										
Mar 2019	ZAAD	Future	5,942	10.2873	10.2522	10.3567	10.3567	46	476,408.20	
Jun 2019	ZAAD	Future	15,743	10.4144	10.3801	10.4550	10.4550	3	31,365.00	
Dec 2019	ZAAD	Future	400	10.6884	10.6585	0.0000	0.0000	0	0.00	
			<u>22,085</u>					<u>49.00</u>	<u>507,773.20</u>	<u>3 841 364.00</u>
	Total							49.00	507,773.20	33 645 649 435.70
Option										
Dec 2019	ZAAD	11.00 Call	1,000	480.8543	461.1580	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>
	Total		23,085					49.00	507,773.20	3 875 741.00
										33 645 649 435.70
Future										
Mar 2019	ZACA	Future	500	10.7162	10.6889	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	250	11.0023	10.9787	0.0000	0.0000	0	0.00	
			<u>750</u>					<u>0.00</u>	<u>0.00</u>	<u>143 663.00</u>
	Total		750					0.00	0.00	143 663.00
										1 420 168 895.10
Future										
Mar 2019	ZAEU	Future	123,612	16.6518	16.5708	16.8300	16.6954	450	7,546,383.40	
Jun 2019	ZAEU	Future	24,250	16.9662	16.8846	0.0000	0.0000	0	0.00	

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Sep 2019	ZAEU	Future	10,459	17.3122	17.2316	17.5025	17.3350	3	52,172.50		
Dec 2019	ZAEU	Future	277	17.6447	17.5633	0.0000	0.0000	0	0.00		
			<u>158,598</u>					<u>453.00</u>	<u>7,598,555.90</u>	<u>16 029 499.00</u>	<u>231 337 369 693.90</u>
Option											
Mar 2019	ZAEU	16.00 Call	650	889.4791	824.6975	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	620.5668	584.1964	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	62.1538	63.3435	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	469.6902	482.5043	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	492.6685	465.1992	0.0000	0.0000	0	0.00		
			<u>107,100</u>					<u>0.00</u>	<u>0.00</u>	<u>10 956 876.00</u>	<u>0.00</u>
	Total		265,698					453.00	7,598,555.90	26 986 375.00	231 337 369 693.90
Future											
Mar 2019	ZAFR	Future	1,143	14.7425	14.6267	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	15.0346	14.9183	0.0000	0.0000	0	0.00		
			<u>1,293</u>					<u>0.00</u>	<u>0.00</u>	<u>625 830.00</u>	<u>6 743 581 614.60</u>
	Total		1,293					0.00	0.00	625 830.00	6 743 581 614.60
Future											
Mar 2019	ZAGB	Future	397,712	18.4085	18.2610	18.6300	18.3814	1,096	20,307,269.80		
Jun 2019	ZAGB	Future	5,764	18.6909	18.5419	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	16,150	18.9982	18.8505	19.1366	19.1201	765	14,628,177.00		
Dec 2019	ZAGB	Future	247	19.2909	19.1443	0.0000	0.0000	0	0.00		
			<u>419,873</u>					<u>1,861.00</u>	<u>34,935,446.80</u>	<u>13 786 543.00</u>	<u>235 694 650 461.40</u>
Option											
Mar 2019	ZAGB	18.00 Put	500	411.8606	466.2916	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	379.6908	327.2736	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1106.4124	1207.8332	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	164.6152	140.3396	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	141.0878	119.6030	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	40.1064	35.9454	0.0000	0.0000	0	0.00		
			<u>6,500</u>					<u>0.00</u>	<u>0.00</u>	<u>1 783 113.00</u>	<u>0.00</u>
	Total		426,373					1,861.00	34,935,446.80	15 569 656.00	235 694 650 461.40
Future											
Jun 2019	ZAKS	Future	2,166	0.1407	0.1396	0.0000	0.0000	0	0.00		
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>	<u>515 662 000.00</u>
	Total		2,166					0.00	0.00	38 066.00	515 662 000.00
Future											
Mar 2019	ZATR	Future	14,000	2.6060	2.6194	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
			14,000					0.00	0.00
		Total	14,000					0.00	0.00
Future									
	Mar 2019	ZAUM	Future 434	14.4937	14.3647	0.0000	0.0000	0	0.00
			434					0.00	0.00
		Total	434					0.00	0.00
Future									
	Mar 2019	ZAUS	Future 476,596	14.4937	14.3647	14.6500	14.4425	29,749	432,953,173.00
	Jun 2019	ZAUS	Future 112,532	14.6531	14.5235	0.0000	0.0000	0	0.00
	Sep 2019	ZAUS	Future 14,245	14.8270	14.6981	0.0000	0.0000	0	0.00
	Dec 2019	ZAUS	Future 9,900	14.9939	14.8646	0.0000	0.0000	1,600	24,139,840.00
	Mar 2020	ZAUS	Future 4,566	15.1886	15.0606	0.0000	0.0000	0	0.00
			617,839					31,349.00	457,093,013.00
									193 273 608.00
									2 327 650 258 813.10
Option									
	Mar 2019	ZAUS	10.33 Put 1,000	0.5454	0.6226	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	11.74 Put 1,000	6.6853	7.5981	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	12.47 Put 721	19.7954	21.4998	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	12.51 Put 720	20.9959	22.7647	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	12.80 Put 6,332	32.1197	34.4809	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	12.90 Put 16,000	37.1618	39.7996	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	12.92 Put 139,342	38.2603	41.7177	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.00 Put 15,434	42.9764	50.2423	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.05 Put 1,155	46.2088	56.2215	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.12 Put 138,000	54.0737	65.4935	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.15 Put 10,125	57.7451	69.8057	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.25 Put 225,407	71.3800	85.7444	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.33 Put 135,043	83.9379	100.3301	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.36 Put 134,750	89.0492	106.2455	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.46 Put 20,000	107.7595	127.7949	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.50 Put 2,550	115.9940	137.2348	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.55 Put 10,000	126.9176	149.7158	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.60 Put 6,570	138.5573	162.9747	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.62 Put 6,432	143.4187	168.4970	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.68 Put 14,200	158.7231	186.3710	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.70 Put 2,500	164.0685	192.7705	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.72 Put 10,000	169.5376	199.3123	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.75 Put 17,981	177.9755	209.3888	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.79 Put 262,812	189.6684	223.3167	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.85 Put 1,000	209.2113	245.2787	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.86 Put 721	212.6232	249.0639	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	13.90 Put	720	226.6148	264.5596	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	757.7521	670.5071	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	35,606	264.0521	305.8071	0.0000	0.0000	5,000	0.00
Mar 2019	ZAUS	14.04 Put	7,100	280.0114	323.3070	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	643.1692	563.6582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	616.7041	539.1282	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	387.5386	440.1229	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	591.0984	515.4557	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	422.6431	477.9225	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	470.1915	530.5986	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	475.6381	536.6131	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	514.8200	447.3594	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	505.8782	439.5466	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	497.0651	431.8589	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	503.3651	567.1589	0.0000	0.0000	10,000	0.00
Mar 2019	ZAUS	14.53 Put	108	520.8267	585.8590	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	538.5728	604.8301	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	593.4821	663.3486	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	650.8081	724.1628	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	384.0094	330.6175	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	696.9879	772.9676	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	703.6964	780.0432	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	710.4319	787.1441	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	717.1915	794.2702	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	322.5942	276.2656	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	857.8059	941.8067	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	901.8741	987.8815	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	916.7462	1003.4096	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	924.2128	1011.2028	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	278.0045	237.2786	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	969.4774	1058.3833	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	977.0966	1066.3155	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	266.0948	226.9339	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	259.1965	220.9493	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1070.0119	1162.9161	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	227.1527	193.3982	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	217.3893	185.0333	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	215.4891	183.4079	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	208.0550	177.0518	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	204.4384	173.9617	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	200.8844	170.9289	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	180.8711	153.8797	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	15.81 Call	10	158.7458	135.0348	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	156.0178	132.6011	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	148.1321	125.5684	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	134.4680	113.6694	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	119.6262	101.1189	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	102.7389	86.8862	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	95.6750	80.9461	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	80.1662	67.9325	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	78.7689	66.7625	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	57.6298	49.0789	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	57.1381	48.6689	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	54.7480	46.6719	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	52.0229	44.3963	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	51.5842	44.0299	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	51.1486	43.6659	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	45.8403	39.1618	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	43.2369	36.8292	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	35.2162	30.9556	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	18.6470	20.2945	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	10.8939	14.6768	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	5.2216	5.4014	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	38.5547	44.0324	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	83.2136	91.0094	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	116.1346	125.1436	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	119.4021	128.5189	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	164.7959	179.7298	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	336.6867	366.4380	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	355.0254	387.3971	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1068.6741	974.8047	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	404.0914	440.3995	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	434.7061	473.0529	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	494.8523	537.0238	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	839.2489	758.3212	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	767.4024	691.4636	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	723.0443	778.3422	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	734.6972	790.6472	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	670.9737	602.1593	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	573.7250	512.4992	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	507.4644	452.1628	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	143,900	459.6421	409.0341	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	430.6975	382.8372	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	426.0719	378.6549	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	15.80 Call	1,000	390.9974	347.0177	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.89 Call	6,800	372.7050	330.5575	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	366.8235	325.2738	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	351.6504	311.0606	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	335.4345	295.4953	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	129.4368	117.0960	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	10.6411	10.4162	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	71.8829	86.6109	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	238.6970	259.9995	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	462.9490	491.6788	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	487.2958	517.7987	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	538.1801	574.7495	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	595.0620	634.7709	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	655.2074	697.7894	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1292.1120	1357.5429	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1418.4441	1487.9231	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	603.8082	550.5008	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	350.5086	316.8655	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	299.5818	270.9192	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	278.0503	254.6778	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	271.6570	248.9918	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	245.7086	225.9521	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	234.2800	215.8265	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	224.8877	207.5141	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	190.3615	167.3890	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	37.1469	29.6801	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	435.5490	460.0743	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	600.0154	0.0000	0.0000	0.0000	1,351	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	584.2071	0.0000	0.0000	0.0000	2,389	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	492.7717	452.5459	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	243.1961	217.8593	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	69.0304	64.4105	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	632.8761	662.1945	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	623.3451	582.0607	0.0000	0.0000	0	0.00		
			<u>4,945,530</u>					<u>18,740.00</u>	<u>0.00</u>	<u>63 888 598.00</u>	<u>0.00</u>
Total			5,563,369					50,089.00	457,093,013.00	257 162 206.00	2 327 650 258 813.10
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Grand Total			6,842,980					53,902.00	518 496 421.90	351,606,031	3,234,026,322,444.13