



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 24-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Jan 2019	DAEU	Future	4,830	16.6877	16.4589	0.0000	0.0000	0	0.00
Feb 2019	DAEU	Future	29	16.8176	16.5898	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.8691	16.6409	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	8.3146	23.0198	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	725.8212	838.9846	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	386.5030	344.4465	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	18.5085	18.2321	0.0000	0.0000	0	0.00
Jan 2019	DAGB	Future	27	18.5390	18.2644	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.6281	18.3522	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.7207	18.4432	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	285	14.5732	14.3535	0.0000	0.0000	160	2,335,200.00
Dec 2018	DAUS	Future	1,952	14.5767	14.3579	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.5790	14.3608	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	324	14.6004	14.3836	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.6021	14.3854	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	126	14.6038	14.3872	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,901	14.6105	14.3944	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	51	14.6173	14.4016	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,018	14.6260	14.4106	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,655	14.6278	14.4123	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>		
Feb 2019	DAUS	Future	70	14.6511	14.4353	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.6547	14.4388	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.6726	14.4564	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,098	14.6780	14.4617	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.6852	14.4689	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.6870	14.4706	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.7267	14.5098	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	14.7304	14.5134	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.7378	14.5206	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.7895	14.5714	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.8468	14.6277	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.8542	14.6349	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.8985	14.6785	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.9042	14.6841	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.9630	14.7416	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	15.0237	14.8010	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	15.0275	14.8048	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0807	14.8570	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.1370	14.9121	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.1993	14.9730	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	15.2032	14.9768	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2600	15.0332	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.3209	15.0941	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.3860	15.1592	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4511	15.2243	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.5078	15.2810	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.5792	15.3524	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.6967	15.4700	0.0000	0.0000	0	0.00		
			<u>110,961</u>					<u>160.00</u>	<u>2,335,200.00</u>	<u>11 019 282.00</u>	<u>135 466 978 687.10</u>
Option											
Dec 2018	DAUS	13.00 Put	500	0.0119	0.1873	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.80 Put	1,000	3.2253	13.1869	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.22 Call	500	386.7348	227.9032	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.25 Put	250	34.5986	100.6995	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.96 Put	250	414.4318	616.9854	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	16.93 Call	500	0.0638	0.0448	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	17.58 Call	500	0.0231	0.0691	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.57 Put	600	1.9579	5.3812	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.93 Call	600	660.4863	465.8758	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.35 Call	600	304.2530	179.0825	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.64 Put	250	4.5213	10.1115	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.12 Call	250	501.8464	340.6924	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	14.65 Call	250	164.6072	102.8006	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	25.6833	60.8607	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	645.5345	479.6132	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.29 Put	218	117.0418	207.2419	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.36 Call	218	382.3580	265.8111	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	1.2223	2.2948	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	4.9698	8.6374	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	152.4475	231.2512	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	169.6829	253.7735	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	467.9783	350.4117	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	172.1061	125.8332	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	106.4155	76.7780	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	22.0391	26.0320	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	228.9731	309.5759	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	248.0742	332.7476	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	525.6161	417.0961	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	250.9726	195.3944	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	174.1655	134.7062	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	165.7123	226.8337	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	324.1941	258.9546	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	178.8644	236.9102	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	213.6157	282.2410	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	43.6576	53.0171	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	290.5324	373.4829	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	310.7253	397.1739	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	572.2980	472.6965	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	313.2525	256.3075	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	235.0416	192.2393	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	162.3912	213.3087	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	760.6394	637.3667	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	63.6372	81.0393	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1431.8184	1254.5809	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	343.9247	429.6828	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	364.8897	453.6776	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	614.5859	521.7074	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	368.6090	311.5887	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	293.1004	247.9959	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	83.2353	107.5358	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	388.9769	476.2350	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	410.4165	500.4129	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	650.3988	561.5337	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	414.2966	357.6437	0.0000	0.0000	0	0.00

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May 2019	DAUS	16.15 Call	250	338.4923	291.6137	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	668.9138	783.1319	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	220.4993	190.7790	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	99.7225	128.9787	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	424.3777	511.8303	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	446.1181	536.1705	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	677.0234	591.4682	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	449.0399	392.8230	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	374.9031	326.4523	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	189.0394	236.1077	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	364.3411	317.2214	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	114.0086	147.5708	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	458.9168	547.4399	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	480.9624	571.9483	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	712.6579	630.4442	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	491.6653	436.0202	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	418.2535	369.1583	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	601.6683	704.4300	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	477.3825	424.2924	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	124.8903	163.0034	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	488.3549	576.4428	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	509.2305	601.0219	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	734.6737	655.4797	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	521.4060	466.4409	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	446.7106	398.4038	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	205.8103	192.6367	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	137.3072	177.7663	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	515.9922	602.3644	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	537.0559	626.9748	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	763.1652	686.4208	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	554.5316	498.9583	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	476.7465	428.7008	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	151.3324	194.3189	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	541.7724	627.0712	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	562.9329	651.7015	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	783.8901	709.9501	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	581.1104	525.6923	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	504.8387	457.4282	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	164.3978	208.9736	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	563.4637	648.0974	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	584.7454	672.6972	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	807.5152	735.0612	0.0000	0.0000	0	0.00

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Nov 2019	DAUS	16.87 Call	250	607.1939	552.6673	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	17.26 Call	250	532.7215	485.7061	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	13.00 Put	500	178.1451	223.8917	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.20 Put	250	585.2112	671.1754	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	606.6081	694.5523	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	831.6700	761.5913	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	636.9866	583.4263	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	564.1871	517.6209	0.0000	0.0000	0	0.00	
			333,091					0.00	0.00	22 142 853.00
		Total	444,052					160.00	2,335,200.00	33 162 135.00 135 466 978 687.10
Future										
Jun 2019	EUUS	Future	582	1.1564	1.1579	0.0000	0.0000	0	0.00	
			582					0.00	0.00	745 357.00 8 455 654 010.00
		Total	582					0.00	0.00	745 357.00 8 455 654 010.00
Future										
Mar 2019	GBUS	Future	400	1.2702	1.2701	0.0000	0.0000	0	0.00	
			400					0.00	0.00	171 207.00 2 202 856 108.00
		Total	400					0.00	0.00	171 207.00 2 202 856 108.00
Future										
Mar 2019	ZAAD	Future	5,942	10.3965	10.2873	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	15,743	10.5246	10.4144	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.8008	10.6884	0.0000	0.0000	0	0.00	
			22,085					0.00	0.00	3 841 364.00 33 645 649 435.70
Option										
Dec 2019	ZAAD	11.00 Call	1,000	526.1643	480.8543	0.0000	0.0000	0	0.00	
			1,000					0.00	0.00	34 377.00 0.00
		Total	23,085					0.00	0.00	3 875 741.00 33 645 649 435.70
Future										
Mar 2019	ZACA	Future	500	10.8558	10.7162	0.0000	0.0000	0	0.00	
Jun 2019	ZACA	Future	0	10.9946	10.8535	10.9981	10.9981	250	2,749,525.00	
Sep 2019	ZACA	Future	250	11.1444	11.0023	0.0000	0.0000	0	0.00	
			750					250.00	2,749,525.00	143 913.00 1 422 918 420.10
		Total	750					250.00	2,749,525.00	143 913.00 1 422 918 420.10
Future										
Mar 2019	ZAEU	Future	123,612	16.8804	16.6518	16.8712	16.8712	500	8,435,600.00	
Jun 2019	ZAEU	Future	24,250	17.1985	16.9662	0.0000	0.0000	0	0.00	

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Sep 2019	ZAEU	Future	10,459	17.5490	17.3122	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	Future	277	17.8847	17.6447	0.0000	0.0000	0	0.00		
			<u>158,598</u>					<u>500.00</u>	<u>8,435,600.00</u>	<u>16 029 999.00</u>	<u>231 345 805 293.90</u>
Option											
Mar 2019	ZAEU	16.00 Call	650	1054.0966	889.4791	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	690.5160	620.5668	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	56.3858	62.1538	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	405.4694	469.6902	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	536.0112	492.6685	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					500.00	8,435,600.00	26 986 875.00	231 345 805 293.90
Future											
Mar 2019	ZAFR	Future	1,143	14.9013	14.7425	14.9348	14.9348	100	1,493,480.00		
Jun 2019	ZAFR	Future	150	15.1964	15.0346	0.0000	0.0000	0	0.00		
			<u>1,293</u>					<u>100.00</u>	<u>1,493,480.00</u>	<u>625 930.00</u>	<u>6 745 075 094.60</u>
	Total		1,293					100.00	1,493,480.00	625 930.00	6 745 075 094.60
Future											
Mar 2019	ZAGB	Future	397,712	18.6855	18.4085	18.7000	18.6900	15	280,400.00		
Jun 2019	ZAGB	Future	5,764	18.9727	18.6909	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	16,150	19.2843	18.9982	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	Future	247	19.5807	19.2909	0.0000	0.0000	0	0.00		
			<u>419,873</u>					<u>15.00</u>	<u>280,400.00</u>	<u>13 786 558.00</u>	<u>235 694 930 861.40</u>
Option											
Mar 2019	ZAGB	18.00 Put	500	319.7313	411.8606	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	484.0420	379.6908	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	921.8227	1106.4124	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	215.6271	164.6152	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	185.5947	141.0878	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	55.3541	40.1064	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					15.00	280,400.00	15 569 671.00	235 694 930 861.40
Future											
Jun 2019	ZAKS	Future	2,166	0.1412	0.1407	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	2.6534	2.6060	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	409 239.00	1 293 087 569.00
		Total	14,000					0.00	0.00	409 239.00	1 293 087 569.00
Future											
	Mar 2019	ZAUM	Future 434	14.7105	14.4937	0.0000	0.0000	0	0.00		
			434					0.00	0.00	155 260.00	180 082 430 910.00
		Total	434					0.00	0.00	159 783.00	180 082 430 910.00
Future											
	Mar 2019	ZAUS	Future 485,205	14.7105	14.4937	14.7539	14.6417	15,039	220,964,987.00		
	Jun 2019	ZAUS	Future 112,532	14.8726	14.6531	14.8768	14.8626	501	7,453,262.60		
	Sep 2019	ZAUS	Future 14,250	15.0502	14.8270	15.0547	15.0547	5	75,273.50		
	Dec 2019	ZAUS	Future 9,900	15.2206	14.9939	0.0000	0.0000	0	0.00		
	Mar 2020	ZAUS	Future 4,566	15.4154	15.1886	0.0000	0.0000	0	0.00		
			626,453					15,545.00	228,493,523.10	193 289 153.00	2 327 878 752 336.20
Option											
	Mar 2019	ZAUS	10.33 Put 1,000	0.4725	0.5454	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	11.74 Put 1,000	5.4013	6.6853	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.47 Put 721	16.0397	19.7954	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.51 Put 720	17.0101	20.9959	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.80 Put 8,132	25.9741	32.1197	0.0000	0.0000	3,600	0.00		
	Mar 2019	ZAUS	12.90 Put 16,000	30.0247	37.1618	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.92 Put 139,342	30.9057	38.2603	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.00 Put 15,434	34.6874	42.9764	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.05 Put 1,155	37.2750	46.2088	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.12 Put 138,000	41.2148	54.0737	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.15 Put 10,125	43.0241	57.7451	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.25 Put 225,407	49.6293	71.3800	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.33 Put 135,043	58.8850	83.9379	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.36 Put 134,750	62.6893	89.0492	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.46 Put 20,000	76.7489	107.7595	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.50 Put 2,550	82.9972	115.9940	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.55 Put 10,000	91.3364	126.9176	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.60 Put 6,570	100.2872	138.5573	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.62 Put 6,432	104.0421	143.4187	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.68 Put 14,200	115.9303	158.7231	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.70 Put 2,500	120.1061	164.0685	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.72 Put 10,000	124.3883	169.5376	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.75 Put 17,981	131.0191	177.9755	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.79 Put 262,812	140.2504	189.6684	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.82 Put 1,800	147.4706	0.0000	0.0000	0.0000	1,800	0.00		
	Mar 2019	ZAUS	13.85 Put 1,000	154.9531	209.2113	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	157.5051	212.6232	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	168.0110	226.6148	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	907.8497	757.7521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	35,606	197.3497	264.0521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	210.3765	280.0114	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	778.3947	643.1692	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	748.1583	616.7041	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	299.9260	387.5386	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	718.7762	591.0984	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	308.2762	397.3984	0.0000	0.0000	3,000	0.00
Mar 2019	ZAUS	14.35 Put	139,342	329.7472	422.6431	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	370.5331	470.1915	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	375.2356	475.6381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	630.4689	514.8200	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	620.0388	505.8782	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	609.7397	497.0651	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	399.2397	503.3651	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	414.0461	520.8267	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	429.1476	538.5728	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	476.2188	593.4821	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	526.5483	650.8081	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	472.5555	384.0094	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	568.0804	696.9879	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	574.1356	703.6964	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	580.2179	710.4319	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	586.3330	717.1915	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	398.6179	322.5942	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	714.6806	857.8059	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	755.3186	901.8741	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	769.0728	916.7462	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	775.9880	924.2128	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	344.3997	278.0045	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	818.0038	969.4774	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	825.0923	977.0966	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	329.8414	266.0948	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	321.3932	259.1965	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	911.9872	1070.0119	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	282.2139	227.1527	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	270.2304	217.3893	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	267.8950	215.4891	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	258.7481	208.0550	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	254.2922	204.4384	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	15.54 Call	721	249.9157	200.8844	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	225.1939	180.8711	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	197.7594	158.7458	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	194.3697	156.0178	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	184.5592	148.1321	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	167.8896	134.4680	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	150.2074	119.6262	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	143.7662	0.0000	0.0000	0.0000	3,600	0.00
Mar 2019	ZAUS	16.30 Call	10,000	129.1935	102.7389	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	120.3310	95.6750	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	100.8259	80.1662	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	99.0662	78.7689	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	72.3723	57.6298	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	71.7505	57.1381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	68.7247	54.7480	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	65.2753	52.0229	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	64.7187	51.5842	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	64.1673	51.1486	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	57.4436	45.8403	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	54.1425	43.2369	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	45.8036	35.2162	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	28.0573	18.6470	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	18.3574	10.8939	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	4.5062	5.2216	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	26.8937	38.5547	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	62.0581	83.2136	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	88.9781	116.1346	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	91.6828	119.4021	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	129.1905	164.7959	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	273.7752	336.6867	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	289.6715	355.0254	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1215.8224	1068.6741	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	330.2119	404.0914	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	355.4316	434.7061	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	407.8697	494.8523	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	960.0811	839.2489	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	879.9491	767.4024	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	613.5511	723.0443	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	624.1958	734.6972	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	770.9569	670.9737	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	660.5922	573.7250	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	584.9686	507.4644	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	15.50 Call	143,900	529.6389	459.6421	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	495.8707	430.6975	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.64 Call	39,589	490.5407	426.0719	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	450.0802	390.9974	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.89 Call	6,800	428.9326	372.7050	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	422.1298	366.8235	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	404.5608	351.6504	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	385.7708	335.4345	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	145.7969	129.4368	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	10.0962	10.6411	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	50.7963	71.8829	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	186.7898	238.6970	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	391.4402	462.9490	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	413.1895	487.2958	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	458.8374	538.1801	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	507.3444	595.0620	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	559.5433	655.2074	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1154.7647	1292.1120	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1274.8903	1418.4441	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	672.9581	603.8082	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	390.6688	350.5086	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	333.3665	299.5818	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	307.9451	278.0503	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	298.8865	271.6570	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	266.7811	245.7086	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	253.7800	234.2800	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	243.0950	224.8877	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	204.9298	190.3615	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	32.9066	37.1469	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	369.6570	435.5490	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	519.8371	600.0154	0.0000	0.0000	313	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	640.3107	584.2071	0.0000	0.0000	313	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	539.0994	492.7717	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	271.5645	243.1961	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	59.1351	69.0304	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	555.3359	632.8761	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	674.1039	623.3451	0.0000	0.0000	0	0.00		
			<u>4,953,930</u>					<u>12,626.00</u>	<u>0.00</u>	<u>63 901 224.00</u>	<u>0.00</u>
	Total		5,580,383					28,171.00	228,493,523.10	257 190 377.00	2 327 878 752 336.20

<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>
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Grand Total		6,859,994				29,196.00	243 787 728.10	351,635,227	3,234,270,110,172.23
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