



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 04-January-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Jan 2019	DAEU	Future	4,830	16.1252	16.4963	0.0000	0.0000	0	0.00		
Feb 2019	DAEU	Future	29	16.2511	16.6067	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	16.3027	16.6597	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											
Aug 2019	DAEU	17.01 Put	16,200	1020.5346	820.5703	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	272.1267	330.4685	0.0000	0.0000	0	0.00		
			<u>78,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 510 587.00</u>	<u>0.00</u>
		Total	83,512					0.00	0.00	2 321 802.00	12 127 077 435.00
Future											
Jan 2019	DAGB	Future	4,112	17.9295	18.2546	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	27	17.9590	18.2727	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	18.0453	18.3520	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.1346	18.4433	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											
Jan 2019	DAUS	Future	125	14.1735	14.4732	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	174	14.1805	14.4950	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	20	14.1821	14.4958	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,901	14.1904	14.4996	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	14.1970	14.5027	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,018	14.2053	14.5066	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	2,002	14.2069	14.5074	0.0000	0.0000	600	8,622,000.00		
Feb 2019	DAUS	Future	70	14.2288	14.5234	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.2323	14.5269	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.2496	14.5446	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,098	14.2548	14.5499	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Mar 2019	DAUS	Future	74	14.2617	14.5570	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.2634	14.5588	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.3012	14.5979	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	5,111	14.3047	14.6015	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.3115	14.6086	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.3608	14.6598	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.4158	14.7169	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.4229	14.7243	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.4654	14.7685	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.4708	14.7740	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.5271	14.8324	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.5856	14.8930	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.5892	14.8968	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.6404	14.9498	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.6949	15.0059	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.7554	15.0681	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.7592	15.0720	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.8140	15.1283	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.8757	15.1890	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.9436	15.2549	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.0114	15.3208	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.0705	15.3781	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.1449	15.4504	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.2675	15.5694	0.0000	0.0000	0	0.00		
			<u>109,620</u>					<u>600.00</u>	<u>8,622,000.00</u>	<u>11 024 922.00</u>	<u>135 548 482 340.00</u>
Option											
Jan 2019	DAUS	13.64 Put	250	0.5863	1.9280	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.12 Call	250	101.7041	368.4420	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.65 Call	250	6.9576	55.4197	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.86 Put	174	55.4169	13.6008	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.00 Call	174	279.7806	525.0083	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.29 Put	218	245.7892	104.2243	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.36 Call	218	112.2797	267.1111	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	12.66 Put	263	0.9912	0.7838	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.00 Put	500	8.1832	5.4343	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.80 Put	600	111.7252	0.0000	0.0000	0.0000	600	0.00		
Jan 2019	DAUS	14.20 Call	600	287.1956	466.6112	0.0000	0.0000	600	0.00		
Jan 2019	DAUS	14.20 Put	250	280.2956	159.2112	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.25 Put	250	308.5818	178.2374	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.38 Call	500	215.3189	361.5729	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.55 Call	600	162.1941	0.0000	0.0000	0.0000	600	0.00		
Jan 2019	DAUS	15.13 Call	250	56.1800	110.7813	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	15.47 Call	250	27.8414	61.1974	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	30.1721	18.8278	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	159.8074	0.0000	0.0000	0.0000	600	0.00
Feb 2019	DAUS	14.20 Put	250	373.1010	252.7828	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	404.9846	573.5821	0.0000	0.0000	600	0.00
Feb 2019	DAUS	14.25 Put	250	400.1846	273.6821	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	301.6344	433.7025	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	233.2263	0.0000	0.0000	0.0000	600	0.00
Feb 2019	DAUS	15.27 Call	250	127.6624	193.8334	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	83.4017	129.1794	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	276.2336	184.3910	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	182.6247	261.8096	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	290.1305	197.8604	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	343.0410	238.5262	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	64.0626	44.3413	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	447.9068	322.2826	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	474.8492	344.1053	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	370.6474	492.1555	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	191.5112	259.5154	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	139.8168	191.0850	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	262.0129	180.0322	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	513.8183	669.0812	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	97.4817	69.8655	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1081.6490	1317.0697	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	508.8577	379.5283	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	535.7623	401.9539	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	427.1038	541.0705	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	248.3086	316.8131	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	193.8441	249.2251	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	128.7164	93.7788	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	557.9355	426.7770	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	584.7646	449.5602	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	472.2323	581.0656	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	295.5423	364.3715	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	236.8686	295.6330	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	891.8736	720.9291	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	154.8604	190.3149	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	155.5216	113.0640	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	595.8003	463.5797	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	622.5380	486.5608	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	505.7356	610.6126	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	331.5088	400.4070	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	16.32 Call	250	271.6265	331.8134	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	281.2527	209.3389	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	264.0265	321.7913	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	181.0467	129.0685	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	633.7411	499.1257	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	660.4196	522.3742	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	547.7524	649.1135	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	374.5679	444.2817	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	314.0228	375.3424	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	802.8723	649.3831	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	365.0726	432.8965	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	201.3336	143.7943	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	664.2110	527.8614	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	690.8153	551.2653	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	576.4692	674.0891	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	405.2374	475.7553	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	344.1507	405.1719	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	165.7978	186.5615	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	221.4495	154.5716	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	691.2623	553.9895	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	717.7715	577.4764	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	609.2398	704.6548	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	437.8166	509.6332	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	374.2039	435.9807	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	241.3720	169.9935	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	716.8919	580.0989	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	743.2887	602.2699	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	635.0411	727.9199	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	465.4297	536.5755	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	403.2399	465.2361	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	258.3092	184.4619	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	738.2179	602.1107	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	764.4955	624.3796	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	661.5964	753.1888	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	492.9698	563.7563	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	431.5665	493.9514	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	276.8281	198.2761	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	759.0273	623.5252	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	785.1565	645.8675	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	687.7091	777.9434	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.05 Call	250	522.1902	593.2332	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.44 Call	250	461.7774	524.8943	0.0000	0.0000	0	0.00

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			331,391					3,600.00	0.00	22 146 453.00	0.00
		Total	441,011					4,200.00	8,622,000.00	33 171 375.00	135 548 482 340.00
Future											
	Mar 2019	EUUS	Future	25	1.1418	1.1432	0.0000	0.0000	0	0.00	
	Jun 2019	EUUS	Future	582	1.1505	1.1519	0.0000	0.0000	0	0.00	
				607				0.00	0.00	745 382.00	8 455 941 735.00
		Total	607					0.00	0.00	745 382.00	8 455 941 735.00
Future											
	Mar 2019	GBUS	Future	400	1.2670	1.2624	1.2689	1.2689	5	63,445.00	
				400					5.00	63,445.00	171 212.00
		Total	400					5.00	63,445.00	171 212.00	2 202 919 553.00
Future											
	Mar 2019	ZAAD	Future	7,364	10.0682	10.2038	0.0000	0.0000	0	0.00	
	Jun 2019	ZAAD	Future	15,741	10.1909	10.3301	0.0000	0.0000	0	0.00	
	Sep 2019	ZAAD	Future	650	10.3251	10.4693	0.0000	0.0000	0	0.00	
	Dec 2019	ZAAD	Future	400	10.4568	10.6031	0.0000	0.0000	0	0.00	
				24,155					0.00	0.00	3 845 327.00
		Total									33 686 670 846.70
Option											
	Dec 2019	ZAAD	11.00 Call	1,000	384.5497	436.1295	0.0000	0.0000	0	0.00	
				1,000					0.00	0.00	34 377.00
		Total	25,155					0.00	0.00	3 879 704.00	33 686 670 846.70
Future											
	Mar 2019	ZACA	Future	2,100	10.6432	10.8049	0.0000	0.0000	0	0.00	
	Jun 2019	ZACA	Future	650	10.7774	10.9438	0.0000	0.0000	0	0.00	
	Sep 2019	ZACA	Future	250	10.9235	11.0934	0.0000	0.0000	0	0.00	
				3,000					0.00	0.00	146 913.00
		Total	3,000					0.00	0.00	146 913.00	1 455 056 745.10
Future											
	Mar 2019	ZAEU	Future	123,862	16.3122	16.6696	16.5100	16.3000	279	4,571,752.80	
	Jun 2019	ZAEU	Future	24,150	16.6142	16.9816	0.0000	0.0000	0	0.00	
	Sep 2019	ZAEU	Future	10,458	16.9468	17.3244	0.0000	0.0000	0	0.00	
	Dec 2019	ZAEU	Future	277	17.2649	17.6510	0.0000	0.0000	0	0.00	
				158,747					279.00	4,571,752.80	16 033 231.00
		Total									231 399 986 085.20
Option											
	Mar 2019	ZAEU	16.00 Call	650	649.4404	884.1282	0.0000	0.0000	0	0.00	
	Sep 2019	ZAEU	18.60 Call	55,000	511.1898	608.4406	0.0000	0.0000	0	0.00	

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Dec 2019	ZAEU	13.73 Put	17,150	67.1519	59.0757	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	584.7272	461.5054	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	415.2721	478.3048	0.0000	0.0000	0	0.00	
			107,100					0.00	0.00	10 956 876.00
		Total	265,847					279.00	4,571,752.80	26 990 107.00 231 399 986 085.20
Future										
Mar 2019	ZAFR	Future	1,043	14.5241	14.8383	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	14.8091	15.1302	0.0000	0.0000	0	0.00	
			1,193					0.00	0.00	626 130.00 6 748 085 054.60
		Total	1,193					0.00	0.00	626 130.00 6 748 085 054.60
Future										
Mar 2019	ZAGB	Future	397,081	18.1007	18.4086	18.1504	18.0955	10	181,211.00	
Jun 2019	ZAGB	Future	5,764	18.3742	18.6898	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	16,675	18.6712	18.9950	18.6564	18.6500	525	9,791,407.50	
Dec 2019	ZAGB	Future	247	18.9547	19.2850	0.0000	0.0000	0	0.00	
			419,767					535.00	9,972,618.50	13 788 244.00 235 726 293 031.00
Option										
Mar 2019	ZAGB	18.00 Put	500	509.0573	393.3474	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	260.5675	360.5915	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	1308.8547	1087.9092	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	103.1163	150.0768	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	86.3260	127.5428	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	24.2132	36.4488	0.0000	0.0000	0	0.00	
			6,500					0.00	0.00	1 783 113.00 0.00
		Total	426,267					535.00	9,972,618.50	15 571 357.00 235 726 293 031.00
Future										
Jun 2019	ZAKS	Future	2,166	0.1353	0.1409	0.0000	0.0000	0	0.00	
			2,166					0.00	0.00	38 066.00 515 662 000.00
		Total	2,166					0.00	0.00	38 066.00 515 662 000.00
Future										
Mar 2019	ZATR	Future	19,000	2.5379	2.5509	0.0000	0.0000	0	0.00	
			19,000					0.00	0.00	414 239.00 1 305 945 069.00
		Total	19,000					0.00	0.00	414 239.00 1 305 945 069.00
Future										
Mar 2019	ZAUM	Future	417	14.2858	14.5819	14.2749	14.2749	5	7,137,450.00	
			417					5.00	7,137,450.00	155 333.00 180 188 569 210.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Total			417					5.00	7,137,450.00	159 856.00	180 188 569 210.00
Future											
Mar 2019	ZAUS	Future	498,076	14.2858	14.5819	14.4363	14.2199	71,206	1,020,418,595.10		
Jun 2019	ZAUS	Future	112,532	14.4406	14.7427	14.5827	14.5827	200	2,916,540.00		
Sep 2019	ZAUS	Future	14,250	14.6112	14.9195	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	Future	9,900	14.7762	15.0894	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	4,566	14.9742	15.2846	0.0000	0.0000	0	0.00		
			639,324					71,406.00	1,023,335,135.10	193 475 579.00	2 330 580 624 505.20
Option											
Mar 2019	ZAUS	10.33 Put	1,000	0.4114	0.3966	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	11.74 Put	1,000	6.0296	5.6246	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.47 Put	721	19.1811	16.1804	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.51 Put	720	20.4319	17.1430	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.80 Put	8,132	32.2716	26.0657	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.90 Put	16,000	39.5534	30.1169	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.92 Put	139,342	41.5401	30.9995	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.00 Put	15,434	50.2850	34.7966	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.05 Put	1,155	56.4377	37.4019	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.12 Put	138,000	66.0053	41.3791	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.15 Put	10,125	70.4647	43.2103	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.25 Put	225,407	86.9859	54.1910	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.33 Put	135,043	102.1513	64.4532	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.36 Put	134,750	108.3105	68.6637	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.46 Put	20,000	130.7914	84.2260	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.50 Put	2,550	140.6537	91.1425	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.55 Put	10,000	153.7055	100.3704	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.60 Put	6,570	167.5969	110.2726	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.62 Put	6,432	173.8400	114.4276	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.68 Put	14,200	193.4519	127.5743	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.70 Put	2,500	200.2873	132.1897	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.72 Put	10,000	207.2726	136.9238	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.75 Put	17,981	218.0335	144.2491	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.79 Put	262,812	232.9074	154.4427	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.82 Put	1,800	244.4604	162.4140	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.85 Put	1,000	256.3535	170.6771	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.86 Put	721	260.3919	173.6758	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.90 Put	720	276.9299	186.0117	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.00 Call	100	606.7046	801.1991	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.00 Put	35,606	320.9046	219.2991	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.04 Put	7,100	339.5394	233.6024	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.20 Call	2,000	505.7446	678.4294	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	482.7541	649.9723	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	463.5790	331.4264	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	460.6335	622.4060	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	474.8335	340.5060	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	504.1975	363.8256	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	559.1434	408.0109	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	565.4094	413.0927	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	397.5071	540.1116	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	390.1993	530.4499	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	383.0132	520.9250	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	597.2132	439.0250	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	616.6666	454.9940	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	636.3913	471.2663	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	697.1400	522.6826	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	760.1468	577.3648	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	289.1366	397.1163	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	810.6232	621.6303	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	817.9347	628.0740	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	825.2708	634.5471	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	832.6338	641.0470	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	239.3895	330.8308	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	984.4852	776.9826	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1031.4502	819.8307	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1047.2686	834.3098	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1055.2076	841.5871	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	202.9560	282.8356	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1103.2458	885.7511	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1111.3188	893.1911	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	193.3202	270.0446	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	187.7583	262.6436	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1209.5920	984.2368	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	162.2576	228.4136	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	154.5593	217.9415	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	153.0629	215.9047	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	147.2303	207.9424	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	144.3996	204.0724	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	141.6245	200.2743	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	126.0835	178.9273	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	108.6604	155.4449	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	106.4422	152.5612	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	100.0499	144.2336	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	89.3062	130.1675	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	16.13 Call	138,000	78.0852	114.8713	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	74.1579	109.3727	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	65.5256	97.2312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	60.3447	89.9021	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	49.1482	73.9475	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	48.1525	72.5205	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	33.4094	51.1892	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	33.0752	50.7006	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	31.4533	48.3279	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	29.6167	45.6337	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	29.3223	45.2008	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	29.0304	44.7713	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	25.5433	39.5709	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	23.8663	37.0400	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	19.6957	30.7152	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	12.3569	18.7376	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	8.6451	12.7227	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	5.0568	5.2296	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	45.7555	32.8727	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	99.2876	71.7501	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	138.4623	100.8003	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	142.3376	103.6985	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	198.9445	143.6451	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	1,282	201.5879	0.0000	0.0000	0.0000	1,282	0.00
Jun 2019	ZAUS	13.83 Put	25,000	398.8636	299.9906	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	420.9483	317.0188	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	927.6861	1115.5893	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	476.6253	360.3552	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	510.8224	389.0173	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	577.6210	445.6222	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	604.4288	0.0000	0.0000	0.0000	1,282	0.00
Jun 2019	ZAUS	14.42 Call	30	720.6375	873.8458	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	657.0789	798.0284	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	827.7942	662.8721	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	840.4695	674.0553	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	572.1049	695.7433	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	486.9870	592.9787	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	429.3963	522.9433	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	145,182	387.6973	471.9603	0.0000	0.0000	1,282	0.00
Jun 2019	ZAUS	15.62 Call	5,035	362.3650	441.2121	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	358.3226	436.3011	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	327.7348	399.0624	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	15.89 Call	6,800	311.8212	379.6505	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	306.4761	373.4149	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	292.4207	357.3272	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	277.4153	340.1452	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	105.1937	124.7408	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	10.9768	11.0464	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	100.7638	66.1522	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	287.2584	213.1965	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	535.0512	422.9507	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	563.3587	445.9266	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	622.2571	494.0624	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	684.1464	546.7764	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	748.9329	604.1870	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1422.4381	1221.3975	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1554.8474	1345.1204	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	533.2033	618.8190	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	302.9419	354.5552	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	260.4466	301.5871	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	244.3289	278.1558	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	238.6030	270.4397	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	215.3703	243.3049	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	205.1439	231.3748	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	196.7382	221.5791	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	153.1254	186.6364	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	52.9420	37.4053	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	499.7732	399.0687	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	681.8322	556.1267	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	523.1371	596.3850	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	439.0475	500.9882	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	203.6161	247.9533	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	83.8855	65.8750	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	709.9089	589.1220	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	565.8193	631.9082	0.0000	0.0000	0	0.00		
			<u>4,957,776</u>					<u>3,846.00</u>	<u>0.00</u>	<u>63 910 338.00</u>	<u>0.00</u>
	Total		5,597,100					75,252.00	1,023,335,135.10	257 385 917.00	2 330 580 624 505.20
	Grand Total		6,869,941					80,276.00	1 053 702 401.40	351,857,191	3,237,334,545,621.03