



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 02-January-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Jan 2019	DAEU	Future	4,830	16.4731	16.5110	0.0000	0.0000	0	0.00
Feb 2019	DAEU	Future	29	16.6049	16.6367	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.6582	16.6900	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	0.4329	2.3523	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	825.9951	800.6405	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	335.8621	337.1075	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	18.2655	18.3779	0.0000	0.0000	0	0.00
Jan 2019	DAGB	Future	27	18.2973	18.4069	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.3868	18.4942	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.4791	18.5866	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	0	14.4500	14.3821	0.0000	0.0000	55	792,000.00
Jan 2019	DAUS	Future	125	14.4562	14.3951	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	324	14.4647	14.4032	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.4665	14.4048	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	126	14.4684	14.4064	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,901	14.4759	14.4129	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	51	14.4833	14.4193	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,018	14.4926	14.4274	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	2,602	14.4945	14.4291	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	14.5179	14.4515	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	6	14.5215	14.4550	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.5392	14.4727	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,098	14.5445	14.4780	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.5516	14.4851	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.5534	14.4869	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.5930	14.5259	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	5,111	14.5966	14.5295	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.6038	14.5366	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.6554	14.5884	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.7126	14.6458	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.7200	14.6532	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.7642	14.6977	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.7698	14.7033	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.8285	14.7618	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.8893	14.8222	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.8931	14.8260	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.9463	14.8789	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0028	14.9348	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.0654	14.9966	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	15.0693	15.0005	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1259	15.0565	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1866	15.1175	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.2521	15.1830	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3176	15.2485	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3747	15.3056	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.4465	15.3774	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.5649	15.4957	0.0000	0.0000	0	0.00		
			<u>110,496</u>					<u>55.00</u>	<u>792,000.00</u>	<u>11 024 046.00</u>	<u>135 535 850 072.00</u>
Option											
Jan 2019	DAUS	13.57 Put	600	0.0018	2.6601	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.93 Call	600	521.3199	465.6893	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.35 Call	600	135.5996	117.1449	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.64 Put	250	2.3086	6.0626	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.12 Call	250	363.1321	321.3976	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.65 Call	250	59.8846	56.7086	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.86 Put	174	19.4087	29.8040	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.00 Call	174	503.6540	458.8362	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.29 Put	218	119.9882	152.6591	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.36 Call	218	254.0205	229.0704	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	12.66 Put	263	0.8879	1.3595	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.00 Put	500	4.7387	7.1208	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.20 Put	250	169.2709	199.6907	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	14.25 Put	250	188.7388	220.9832	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	360.1973	331.6779	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	112.2934	104.2367	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	63.3063	58.7908	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	20.5478	22.5861	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	257.5804	287.7716	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	278.5979	310.2446	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	433.7237	406.8650	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	194.4340	182.5351	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	129.9912	122.1816	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	187.9302	210.7648	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	262.4046	246.9318	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	200.8196	222.9950	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	241.7035	266.7046	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	45.5136	50.0347	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	325.6789	355.3994	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	347.5670	378.4654	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	491.1874	464.9952	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	259.3155	244.8859	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	191.2265	180.4287	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	182.5588	201.1431	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	667.7330	633.4378	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	70.7587	76.5655	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1314.8956	1261.4341	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	382.6300	411.5037	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	405.1089	434.9950	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	540.3559	514.4867	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	316.6844	300.5899	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	249.3367	236.3917	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	94.2341	102.0766	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	429.8808	457.8856	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	452.7138	481.6173	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	580.4678	554.7861	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	364.1559	346.8703	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	295.5870	280.5157	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	724.5084	760.5008	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	190.4702	179.7511	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	113.0756	122.7134	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	466.7963	494.0335	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	489.8275	517.8902	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	610.1209	584.6765	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	400.1006	382.0284	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	16.32 Call	250	331.5885	314.8545	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	211.4653	224.3759	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	321.2445	305.2811	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	128.4318	141.8805	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	502.1023	529.6689	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	525.4100	553.7078	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	649.0363	623.6901	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	444.3617	425.5475	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	375.5135	357.9551	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	652.6675	683.6711	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	433.0891	414.1571	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	142.7634	157.4857	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	530.8687	558.5557	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	554.3274	582.6939	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	674.2680	648.8545	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	476.0699	456.4338	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	405.6148	387.7707	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	187.7457	179.1262	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	157.3631	169.2441	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	555.9526	583.7244	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	579.4800	607.9129	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	703.9558	679.9446	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	509.2050	489.7383	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	435.7531	418.5059	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	174.0009	180.1350	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	581.9743	608.6042	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	604.1725	632.8007	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	727.6267	703.3925	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	536.5332	516.8758	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	465.3558	447.6689	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	187.4427	197.0213	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	603.9444	630.5798	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	626.2206	653.4752	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	753.2438	728.7286	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	564.0636	543.9736	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	494.4235	476.1842	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	200.5066	211.9668	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	625.2501	651.8525	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	647.5951	674.7483	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	778.2005	753.5255	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.05 Call	250	593.7554	573.2210	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.44 Call	250	525.5529	506.8626	0.0000	0.0000	0	0.00

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			329,591					0.00	0.00	22 142 853.00	0.00	
		Total	440,087					55.00	792,000.00	33 166 899.00	135 535 850 072.00	
Future												
	Mar 2019	EUUS	Future	20	1.1435	1.1509	1.1521	1.1521	10	115,210.00		
	Jun 2019	EUUS	Future	582	1.1522	1.1597	0.0000	0.0000	0	0.00		
				602					10.00	115,210.00	745 377.00	8 455 884 490.00
		Total	602					10.00	115,210.00	745 377.00	8 455 884 490.00	
Future												
	Mar 2019	GBUS	Future	400	1.2653	1.2785	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	7,364	10.2062	10.2576	10.2403	10.2240	1,481	15,164,730.00		
	Jun 2019	ZAAD	Future	15,741	10.3340	10.3861	10.3752	10.3725	1,450	15,041,325.00		
	Sep 2019	ZAAD	Future	650	10.4748	10.5259	10.5095	10.5074	650	6,830,110.00		
	Dec 2019	ZAAD	Future	400	10.6108	10.6602	0.0000	0.0000	0	0.00		
				24,155					3,581.00	37,036,165.00	3 845 327.00	33 686 670 846.70
Option												
	Dec 2019	ZAAD	11.00 Call	1,000	445.8988	464.0376	0.0000	0.0000	0	0.00		
				1,000					0.00	0.00	34 377.00	0.00
		Total	25,155					3,581.00	37,036,165.00	3 879 704.00	33 686 670 846.70	
Future												
	Mar 2019	ZACA	Future	2,100	10.7137	10.6787	0.0000	0.0000	0	0.00		
	Jun 2019	ZACA	Future	650	10.8518	10.8169	10.8558	10.8545	650	7,055,725.00		
	Sep 2019	ZACA	Future	250	11.0008	10.9658	0.0000	0.0000	0	0.00		
				3,000					650.00	7,055,725.00	146 913.00	1 455 056 745.10
		Total	3,000					650.00	7,055,725.00	146 913.00	1 455 056 745.10	
Future												
	Mar 2019	ZAEU	Future	123,584	16.6684	16.6999	16.8609	16.6671	265	4,447,305.30		
	Jun 2019	ZAEU	Future	24,150	16.9816	17.0149	0.0000	0.0000	100	1,709,330.00		
	Sep 2019	ZAEU	Future	10,459	17.3260	17.3593	17.5025	17.3775	7	122,021.50		
	Dec 2019	ZAEU	Future	277	17.6557	17.6904	0.0000	0.0000	0	0.00		
				158,470					372.00	6,278,656.80	16 032 620.00	231 389 873 081.70
Option												
	Mar 2019	ZAEU	16.00 Call	650	890.6303	909.8572	0.0000	0.0000	0	0.00		
	Sep 2019	ZAEU	18.60 Call	55,000	614.4623	617.5943	0.0000	0.0000	0	0.00		

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Dec 2019	ZAEU	13.73 Put	17,150	58.8212	57.8462	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	462.5990	447.3789	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	485.4218	485.5625	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>
	Total		265,570					372.00	6,278,656.80	26 989 496.00 231 389 873 081.70
Future										
Mar 2019	ZAFR	Future	1,043	14.8485	14.8358	14.9598	14.9598	100	1,495,980.00	
Jun 2019	ZAFR	Future	150	15.1414	15.1306	0.0000	0.0000	0	0.00	
			<u>1,193</u>					<i>100.00</i>	<i>1,495,980.00</i>	<i>626 130.00 6 748 085 054.60</i>
	Total		1,193					100.00	1,495,980.00	626 130.00 6 748 085 054.60
Future										
Mar 2019	ZAGB	Future	397,720	18.4440	18.5514	0.0000	0.0000	0	0.00	
Jun 2019	ZAGB	Future	5,764	18.7266	18.8362	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	16,150	19.0334	19.1445	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	247	19.3265	19.4379	0.0000	0.0000	0	0.00	
			<u>419,881</u>					<i>0.00</i>	<i>0.00</i>	<i>13 787 071.00 235 704 577 153.20</i>
Option										
Mar 2019	ZAGB	18.00 Put	500	385.0825	348.4549	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	377.8348	415.7710	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	1068.1568	993.8960	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	160.0780	177.2917	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	136.5635	151.3809	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	36.9817	42.5425	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>
	Total		426,381					0.00	0.00	15 570 184.00 235 704 577 153.20
Future										
Jun 2019	ZAKS	Future	2,166	0.1410	0.1397	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>
	Total		2,166					0.00	0.00	38 066.00 515 662 000.00
Future										
Mar 2019	ZATR	Future	14,000	2.6047	2.6393	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>
	Total		14,000					0.00	0.00	409 239.00 1 293 087 569.00
Future										
Mar 2019	ZAUM	Future	416	14.5768	14.5099	0.0000	0.0000	0	0.00	
			<u>416</u>					<i>0.00</i>	<i>0.00</i>	<i>155 295.00 180 133 202 260.00</i>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Total			416					0.00	0.00	159 818.00	180 133 202 260.00
Future											
Mar 2019	ZAUS	Future	486,745	14.5768	14.5099	14.6510	14.4600	40,643	592,131,795.30		
Jun 2019	ZAUS	Future	112,532	14.7384	14.6718	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	Future	14,250	14.9159	14.8486	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	Future	9,900	15.0869	15.0178	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	4,566	15.2817	15.2126	0.0000	0.0000	0	0.00		
			627,993					40,643.00	592,131,795.30	193 364 543.00	2 328 978 584 941.50
Option											
Mar 2019	ZAUS	10.33 Put	1,000	0.3632	0.4184	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	11.74 Put	1,000	5.1999	6.3389	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.47 Put	721	16.0913	17.8458	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.51 Put	720	17.1055	18.8899	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.80 Put	8,132	26.5824	28.5432	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.90 Put	16,000	30.9155	32.9188	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.92 Put	139,342	31.8612	33.8712	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.00 Put	15,434	35.9349	37.9703	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.05 Put	1,155	38.7334	40.7809	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.12 Put	138,000	43.0111	48.0157	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.15 Put	10,125	44.9813	51.4057	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.25 Put	225,407	56.1732	64.0633	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.33 Put	135,043	66.6028	75.7984	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.36 Put	134,750	70.8754	80.5940	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.46 Put	20,000	86.6397	98.2252	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.50 Put	2,550	93.6342	106.0197	0.0000	0.0000	500	0.00		
Mar 2019	ZAUS	13.55 Put	10,000	102.9601	116.3878	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.60 Put	6,570	112.9539	127.4685	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.62 Put	6,432	117.1456	132.1049	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.68 Put	14,200	130.3971	146.7377	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.70 Put	2,500	135.0450	151.8581	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.72 Put	10,000	139.8127	157.1046	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.75 Put	17,981	147.1862	165.2065	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.79 Put	262,812	157.4430	176.4556	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.82 Put	1,800	165.4588	185.5639	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.85 Put	1,000	173.7647	195.1395	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.86 Put	721	176.7892	198.3995	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.90 Put	720	189.2252	211.7934	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.00 Call	100	799.5539	757.6451	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.00 Put	35,606	222.7539	247.7451	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.04 Put	7,100	237.1507	263.1192	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.20 Call	2,000	677.2289	640.2114	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	648.8713	613.0724	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	335.4835	367.3092	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	621.4027	586.8096	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	344.6027	376.9096	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	368.0133	401.5208	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	412.3551	447.9844	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	417.4540	453.3184	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	539.3898	508.5834	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	529.7588	499.4164	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	520.2665	490.3822	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	443.4665	480.4822	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	459.4805	497.6315	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	475.7959	515.0752	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	527.3558	569.1366	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	582.1845	625.7066	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	396.9230	374.6549	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	626.5487	671.3628	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	633.0065	677.9990	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	639.4935	684.6659	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	646.0098	691.3583	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	330.8854	312.0153	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	782.1798	830.8342	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	825.0848	874.6423	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	839.5850	889.4345	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	846.8713	896.8641	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	283.0523	266.7118	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	891.0843	941.9207	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	898.5348	949.5068	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	270.3016	254.6465	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	262.9232	247.6647	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	989.6623	1042.1581	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	228.8134	215.4085	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	218.3906	205.6107	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	216.3651	203.7057	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	208.4416	196.2611	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	204.5881	192.6399	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	200.8079	189.0881	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	179.5536	169.1260	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	156.1617	147.1678	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	153.2888	144.4712	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	144.9909	136.6834	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	130.9653	123.2169	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	16.13 Call	138,000	115.8149	108.6435	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	110.3890	103.5141	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	98.4012	92.1825	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	91.1599	85.3410	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	75.3675	70.4303	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	73.9530	69.0967	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	52.7556	49.1145	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	52.2674	48.6547	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	49.9014	46.4270	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	47.2117	43.8955	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	46.7781	43.4884	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	46.3497	43.0845	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	41.1457	38.1900	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	38.6072	35.8049	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	32.2441	29.3490	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	17.6772	17.1408	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	10.7724	11.1490	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	4.6386	5.4802	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	31.2404	38.3254	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	70.8727	79.5264	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	100.8556	109.6784	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	103.8553	112.6693	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	145.2765	154.6897	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	302.7604	322.2516	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	319.8495	340.2594	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1114.2307	1071.6571	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	363.3173	388.1694	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	392.0555	418.0817	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	448.8000	476.9576	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	872.9240	838.0184	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	797.2258	764.8066	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	666.4049	701.3428	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	677.5969	712.8380	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	695.0933	666.3681	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	592.4613	567.0395	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	522.5019	499.4146	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	143,900	471.5664	450.6475	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	440.8866	421.1588	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	435.9858	416.4493	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	398.8295	380.7585	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	379.4606	362.1624	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	373.2352	356.1857	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	16.00 Call	20	357.1810	340.7811	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	340.0352	324.3331	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	125.3424	118.8469	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	9.5913	11.7914	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	63.2057	72.0315	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	213.3327	228.8299	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	424.6815	447.1086	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	447.6985	471.0490	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	495.9100	521.1393	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	548.7055	576.9823	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	606.2079	636.0898	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1223.9890	1265.3070	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1347.7668	1390.6189	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	617.9694	596.0555	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	354.2628	339.7421	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	301.4430	288.6634	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	278.0759	267.0657	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	270.3994	260.5852	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	243.4939	234.2990	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	231.6676	222.7412	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	221.9606	213.2513	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	187.3286	178.4982	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	38.0389	32.7077	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	400.7257	421.6586	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	557.8254	582.5945	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	596.6623	575.7143	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	501.5014	483.4182	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	249.3901	232.9606	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	65.1121	67.3388	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	591.0302	619.7594	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	632.3625	616.2904	0.0000	0.0000	0	0.00		
			<u>4,953,930</u>					<u>500.00</u>	<u>0.00</u>	<u>63 901 724.00</u>	<u>0.00</u>
	Total		5,581,923					41,143.00	592,131,795.30	257 266 267.00	2 328 978 584 941.50
	Grand Total		6,861,671					45,911.00	644 905 532.10	351,726,233	3,235,619,699,768.03