



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 29-January-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Feb 2019	DAEU	Future	29	15.6490	15.7523	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	15.7415	15.8450	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	15.7974	15.9008	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	15.8337	15.9370	0.0000	0.0000	0	0.00		
			87					0.00	0.00	816 050.00	12 203 231 036.50
Option											
Feb 2019	DAEU	15.80 Put	25,000	305.8010	244.7613	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	16,200	1246.1886	1171.5918	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	103.6363	110.8928	0.0000	0.0000	0	0.00		
			103,600					0.00	0.00	1 560 587.00	0.00
Total			103,687					0.00	0.00	2 376 637.00	12 203 231 036.50
Future											
Jan 2019	DAGB	Future	27	17.9526	18.0469	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	18.0387	18.1327	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.1276	18.2216	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	18.1806	18.2746	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	18.2149	18.3089	0.0000	0.0000	0	0.00		
			317					0.00	0.00	66 675.00	1 118 086 763.20
Total			317					0.00	0.00	273 988.00	1 118 086 763.20
Future											
Jan 2019	DAUS	Future	1,018	13.6179	13.7032	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,837	13.6195	13.7048	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.6402	13.7257	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.6434	13.7289	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,759	13.6650	13.7499	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	13.6715	13.7564	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	13.6732	13.7580	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.7089	13.7937	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	DAUS	Future	4,202	13.7121	13.7969	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	13.7187	13.8035	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	260	13.7401	13.8248	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	349	13.7582	13.8428	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	15	13.7631	13.8478	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	319	13.7648	13.8495	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	264	13.8170	13.9025	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	74	13.8238	13.9093	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	359	13.8646	13.9501	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	13.8697	13.9553	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	26	13.9205	14.0069	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	13.9222	14.0086	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	65	13.9724	14.0592	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	13.9776	14.0644	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	74	13.9810	14.0679	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.0293	14.1169	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.0794	14.1677	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	14.1356	14.2242	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	321	14.1389	14.2277	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.1880	14.2785	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.2391	14.3307	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	14.2945	14.3877	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.3500	14.4447	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.3984	14.4943	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	14.4612	14.5553	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	14.5646	14.6558	0.0000	0.0000	0	0.00
			<u>104,618</u>					<u>0.00</u>	<u>0.00</u>
									<u>11 035 191.00</u>
									<u>135 691 638 159.50</u>
Option									
Jan 2019	DAUS	13.00 Put	500	0.1389	0.1372	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.80 Put	600	194.7580	136.4104	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.95 Put	731	334.8179	261.4719	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	731	2.9416	11.9850	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Call	600	0.7077	3.7480	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	581.2077	498.9480	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	631.0109	548.0569	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	0.2328	1.4682	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.55 Call	600	0.0943	0.4995	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	0.0151	0.0213	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	0.0126	0.0177	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.76 Put	684	237.2369	192.2757	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.81 Call	684	104.3919	141.1943	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.87 Put	22,000	314.0189	261.0710	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	13.75 Put	25,000	268.3394	225.0926	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	23.9895	19.9292	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	246.4806	207.6404	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	610.3931	545.8191	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	67.7763	86.3781	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	652.7763	586.4781	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	37.3926	49.0552	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	22.2583	29.6078	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	6.6747	9.3098	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	2.8540	4.0418	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	432.0530	380.5338	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	19.8282	25.6565	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	427.3692	379.4418	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	508.2745	455.8958	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	70.3993	58.5519	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	205.5700	177.3171	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	268.4601	305.7684	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	659.6317	600.9585	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	698.2668	638.1483	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	130.5409	151.2746	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	89.3220	104.5472	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	27.3162	34.6757	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	14.3181	18.9441	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	373.8029	331.7417	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	160.9314	183.9736	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	116.2530	100.2100	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	558.4637	611.1134	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	704.5160	649.0390	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	740.9373	684.2266	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	138.8274	155.2176	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	62.4725	70.5834	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	43.6767	49.4200	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	155.9595	137.2985	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	744.4992	690.7144	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	779.4542	724.5419	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	182.7812	199.8696	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	94.7013	104.3410	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	70.4131	77.5988	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	187.4532	167.3910	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	774.2128	722.0112	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	808.1770	754.9377	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	215.9756	233.2243	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	15.96 Call	250	120.6829	131.1873	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	93.3366	101.4616	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	357.4557	324.2151	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	91.3150	99.0966	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	220.1891	198.5990	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	803.8424	752.8805	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	836.8868	784.9674	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	252.9679	271.3740	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	150.5377	162.3515	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	120.2387	129.7342	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	1004.7477	949.2772	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	149.9372	161.2241	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	245.3715	223.0611	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	828.5114	778.5875	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	860.9436	810.1179	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	281.2805	300.8731	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	176.7570	189.2516	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	144.2764	154.4566	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	49.7845	54.4254	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	268.6048	245.3812	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	849.4080	800.3533	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	881.3393	831.3833	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	310.7137	329.8575	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	203.3658	216.4745	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	168.4624	178.8362	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	291.3089	267.5213	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	870.0445	821.6703	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	901.4878	852.2338	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	334.2023	353.4136	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	227.0599	240.3790	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	194.2595	203.9508	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	310.5098	286.4200	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	886.4937	838.9585	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	917.5043	869.1354	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	357.5363	376.7690	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	249.5063	263.3729	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	217.3300	228.6445	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	330.0384	305.3373	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	903.1150	855.3453	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	933.7208	885.3877	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	380.0545	400.0840	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.05 Call	250	273.2723	287.8484	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	17.44 Call	250	242.8740	254.8832	0.0000	0.0000	0	0.00
			341,224					0.00	0.00
		Total	445,842					0.00	0.00
									22 310 083.00
									0.00
									33 345 274.00
									135 691 638 159.50
Future									
Mar 2019	EUUS	Future	5	1.1469	1.1474	0.0000	0.0000	0	0.00
Jun 2019	EUUS	Future	582	1.1556	1.1560	0.0000	0.0000	0	0.00
			587					0.00	0.00
		Total	587					0.00	0.00
									745 402.00
									8 456 173 900.00
Future									
Mar 2019	GBUS	Future	5	1.3213	1.3200	0.0000	0.0000	0	0.00
			5					0.00	0.00
		Total	5					0.00	0.00
									171 722.00
									2 209 540 628.00
Future									
Mar 2019	ZAAD	Future	5,780	9.7969	9.8825	0.0000	0.0000	1,423	13,995,205.00
Jun 2019	ZAAD	Future	15,741	9.9139	10.0003	0.0000	0.0000	0	0.00
Sep 2019	ZAAD	Future	513	10.0428	10.1318	0.0000	0.0000	0	0.00
Dec 2019	ZAAD	Future	400	10.1667	10.2583	0.0000	0.0000	0	0.00
			22,434					1,423.00	13,995,205.00
									3 848 596.00
									33 719 166 936.80
Option									
Dec 2019	ZAAD	11.00 Call	1,000	226.2616	248.7262	0.0000	0.0000	0	0.00
			1,000					0.00	0.00
		Total	23,434					1,423.00	13,995,205.00
									3 882 973.00
									33 719 166 936.80
Future									
Mar 2019	ZACA	Future	500	10.3442	10.3862	0.0000	0.0000	0	0.00
Jun 2019	ZACA	Future	400	10.4758	10.5184	0.0000	0.0000	0	0.00
Sep 2019	ZACA	Future	500	10.6181	10.6623	0.0000	0.0000	0	0.00
			1,400					0.00	0.00
		Total	1,400					0.00	0.00
									149 513.00
									1 482 776 070.10
Future									
Mar 2019	ZAEU	Future	125,019	15.7063	15.8097	15.8434	15.7125	10,576	167,301,033.60
Jun 2019	ZAEU	Future	29,425	15.9946	16.0995	0.0000	0.0000	0	0.00
Sep 2019	ZAEU	Future	21,186	16.3122	16.4201	0.0000	0.0000	0	0.00
Dec 2019	ZAEU	Future	17,899	16.6147	16.7256	0.0000	0.0000	0	0.00
			193,529					10,576.00	167,301,033.60
									16 163 411.00
									233 501 098 052.50
Option									
Mar 2019	ZAEU	16.00 Call	650	197.1767	234.8331	0.0000	0.0000	0	0.00

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Sep 2019	ZAEU	18.60 Call	55,000	242.1183	258.8164	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	53.8717	46.6248	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	683.2457	631.3524	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	239.8260	243.4651	0.0000	0.0000	0	0.00	
			107,100					0.00	0.00	10 956 876.00
	Total		300,629					10,576.00	167,301,033.60	27 120 287.00 233 501 098 052.50
Future										
Mar 2019	ZAFR	Future	1,143	13.8282	13.9611	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	14.0953	14.2306	0.0000	0.0000	0	0.00	
			1,293					0.00	0.00	626 580.00 6 754 562 099.60
	Total		1,293					0.00	0.00	626 580.00 6 754 562 099.60
Future										
Mar 2019	ZAGB	Future	397,627	18.0938	18.1878	18.1178	18.1000	1,006	18,230,017.80	
Jun 2019	ZAGB	Future	5,764	18.3679	18.4630	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	15,609	18.6652	18.7621	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	12,690	18.9457	19.0448	0.0000	0.0000	0	0.00	
			431,690					1,006.00	18,230,017.80	13 827 114.00 236 453 504 163.10
Option										
Mar 2019	ZAGB	18.00 Put	500	329.7720	294.9168	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	111.9439	134.1132	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	1180.7990	1104.7084	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	24.7604	30.1788	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	19.3837	23.8631	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	3.9875	5.3163	0.0000	0.0000	0	0.00	
			6,500					0.00	0.00	1 783 113.00 0.00
	Total		438,190					1,006.00	18,230,017.80	15 610 227.00 236 453 504 163.10
Future										
Mar 2019	ZAJY	Future	10,000	0.1256	0.1266	0.0000	0.0000	0	0.00	
			10,000					0.00	0.00	1 142 337.00 52 077 212 053.60
	Total		10,000					0.00	0.00	1 142 337.00 52 077 212 053.60
Future										
Jun 2019	ZAKS	Future	2,166	0.1342	0.1346	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										
Sep 2019	ZANZ	Future	213	9.6018	9.6771	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>	
			213					0.00	0.00	146 359.00	1 123 547 250.60
		Total	213					0.00	0.00	166 359.00	1 123 547 250.60
Future											
	Mar 2019 ZASD	Future	1,200	10.1335	10.1925	0.0000	0.0000	0	0.00		
			1,200					0.00	0.00	10 726.00	109 054 884.50
		Total	1,200					0.00	0.00	10 726.00	109 054 884.50
Future											
	Mar 2019 ZATR	Future	25,000	2.5101	2.5155	0.0000	0.0000	0	0.00		
			25,000					0.00	0.00	420 239.00	1 320 654 069.00
		Total	25,000					0.00	0.00	420 239.00	1 320 654 069.00
Future											
	Mar 2019 ZAUM	Future	422	13.6942	13.7791	0.0000	0.0000	0	0.00		
	Jun 2019 ZAUM	Future	10	13.8408	13.9263	0.0000	0.0000	0	0.00		
			432					0.00	0.00	155 505.00	180 428 410 410.00
		Total	432					0.00	0.00	160 028.00	180 428 410 410.00
Future											
	Mar 2019 ZAUS	Future	535,290	13.6942	13.7791	13.7900	13.6850	24,834	341,384,364.20		
	Jun 2019 ZAUS	Future	104,981	13.8408	13.9263	13.9300	13.8487	10	138,816.10		
	Sep 2019 ZAUS	Future	14,284	14.0017	14.0889	14.0291	14.0291	1	14,029.10		
	Dec 2019 ZAUS	Future	10,100	14.1541	14.2434	0.0000	0.0000	0	0.00		
	Mar 2020 ZAUS	Future	4,566	14.3196	14.4134	0.0000	0.0000	0	0.00		
			669,221					24,845.00	341,537,209.40	194 415 926.00	2 343 673 360 952.30
Option											
	Mar 2019 ZAUS	10.33 Put	1,000	0.0634	0.0597	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	11.74 Put	1,000	1.5565	1.4384	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	12.47 Put	721	9.9781	8.0048	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	12.51 Put	720	11.4576	9.2311	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	12.80 Put	7,520	29.2398	24.2065	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	12.90 Put	16,000	39.3317	32.8260	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	12.92 Put	139,342	41.6673	34.8291	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	13.00 Put	15,434	52.2007	43.8956	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	13.05 Put	1,155	61.3242	50.4966	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	13.12 Put	138,000	75.9797	61.6527	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	13.15 Put	10,125	82.9680	67.6364	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	13.25 Put	225,407	109.5182	90.5978	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	13.33 Put	135,043	134.5345	112.5106	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUS	13.36 Put	134,750	144.8148	121.5799	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	13.46 Put	20,000	182.7004	155.2900	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	22,050	199.4308	170.3012	0.0000	0.0000	5,000	0.00
Mar 2019	ZAUS	13.55 Put	10,000	221.6186	190.3104	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	245.2144	211.7086	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	255.0442	220.6578	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	285.8705	248.8325	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	296.5857	258.6635	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	308.0978	268.7154	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	325.7665	284.1992	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	350.0593	305.5976	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.82 Put	2,100	368.8132	322.7559	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	388.0147	340.6571	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	394.5109	346.7272	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	420.9724	371.5068	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	199.2782	232.6759	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	184.4745	215.9147	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	35,606	490.2745	436.8147	0.0000	0.0000	10,000	0.00
Mar 2019	ZAUS	14.04 Put	7,100	519.1788	464.2094	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	135.0223	159.4432	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	124.8201	147.6939	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	704.8671	641.9500	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	115.3775	136.7843	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	721.1775	657.6843	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	762.4412	697.5609	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	838.1715	771.1696	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	846.6827	779.4842	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	89.4188	106.9246	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	86.5591	103.6798	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	83.7897	100.5324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	889.5897	821.4324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	915.5999	846.7485	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	941.7989	872.2787	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	1021.4462	950.0655	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	1102.5136	1029.4774	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	51.4543	62.3201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1166.4268	1092.2349	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1175.6139	1101.2655	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1184.8133	1110.3117	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1194.0270	1119.3731	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	37.2681	45.3522	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1380.7555	1303.4729	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1437.0892	1359.6295	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	15.12 Put	99,824	1455.9227	1378.4303	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1465.3549	1387.8453	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	27.3828	34.6978	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1522.1540	1444.5285	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1531.6537	1453.9994	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	24.8795	31.8794	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	23.4837	30.1280	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1646.3115	1567.2862	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	17.5555	22.6471	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	15.9208	20.5711	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	15.6121	20.1782	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	14.4334	18.6767	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	13.3409	17.2820	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	10.5230	13.6706	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	7.8068	10.1674	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	7.5012	9.7717	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	6.6527	8.6721	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	5.3357	6.9603	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	4.1083	5.3594	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	3.7147	4.8450	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	2.9168	3.8004	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	2.4824	3.2309	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	2.0835	2.2644	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	2.0734	2.2513	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	1.9386	2.0715	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	1.9360	2.0678	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	1.9234	2.0503	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	1.9100	2.0312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	1.9079	2.0283	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	1.9059	2.0253	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	1.8833	1.9917	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	1.8740	1.9769	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	1.8571	1.9460	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	1.2864	1.7611	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	0.6050	0.8500	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	3.7679	3.4256	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	48.6753	44.4760	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	93.7564	0.0000	0.0000	0.0000	2,100	0.00
Jun 2019	ZAUS	12.75 Put	1,000	112.7983	98.7959	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	166.8734	147.9720	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	172.2924	152.9341	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	248.8819	221.7039	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	13.25 Put	1,282	252.6146	224.9553	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	645.2774	0.0000	0.0000	0.0000	700	0.00
Jun 2019	ZAUS	13.83 Put	25,000	526.0779	483.4193	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	555.1512	510.7970	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	507.9161	0.0000	0.0000	0.0000	100	0.00
Jun 2019	ZAUS	13.98 Call	1,000	476.9400	514.5704	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	628.6830	580.3313	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	673.4575	623.4416	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	760.0668	707.1153	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	794.5188	740.4846	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	356.0131	0.0000	0.0000	0.0000	1,050	0.00
Jun 2019	ZAUS	14.42 Call	30	336.8524	364.8568	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	296.9377	321.9864	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	1074.7033	1013.3813	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	1090.2588	1028.5969	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	246.1271	267.1912	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	198.3917	215.5399	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	167.4266	182.6102	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	145,182	145.0407	158.5461	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	131.9048	144.2348	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	129.8409	141.9866	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	114.5462	125.3012	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	106.8117	116.8566	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	104.3620	114.1816	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	98.1269	107.3688	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	91.6006	100.2316	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	28.9168	30.2613	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	7.9247	7.1960	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	132.2878	118.7169	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	343.9207	316.3691	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	699.0441	654.0999	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.00 Put	1,000	716.6554	0.0000	0.0000	0.0000	1,000	0.00
Sep 2019	ZAUS	14.09 Put	33,715	771.0578	723.5412	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	846.3266	796.6046	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	924.5814	872.7766	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1715.6967	1649.0211	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1863.6847	1796.6097	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	257.3797	274.4817	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	133.2185	140.3476	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	115.1172	120.9643	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	107.3516	112.6525	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	104.6224	109.7318	0.0000	0.0000	0	0.00

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Sep 2019	ZAUS	18.47 Call	1,200	80.6751	89.1517	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.63 Call	33,715	72.5799	80.3638	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	19.32 Call	33,151	45.5722	50.8930	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	11.89 Put	1,000	61.1459	49.9105	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	13.66 Put	1,000	590.8142	551.9961	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	14.07 Put	1,351	816.0057	770.0338	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	16.85 Call	1,351	270.6979	285.1974	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38 Call	1,000	226.4822	236.5334	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	73.5421	80.5889	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	11.91 Put	1,000	70.2443	59.9129	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	14.01 Put	1,000	831.6373	786.5555	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	17.73 Call	1,000	323.2570	334.2469	0.0000	0.0000	0	0.00	
			<u>4,809,075</u>					<u>19,950.00</u>	<u>0.00</u>	<u>64 136 444.00</u>
		Total	5,478,296					44,795.00	341,537,209.40	258 552 370.00
										2 343 673 360 952.30

Grand Total	6,832,691							57,800.00	541 063 465.80	353,553,709	3,294,413,306,247.63
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