



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 15-January-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Jan 2019	DAEU	Future	4,830	15.8176	15.8695	0.0000	0.0000	0	0.00		
Feb 2019	DAEU	Future	29	16.1012	15.9947	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	16.2471	16.0446	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	16.1210	16.1496	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	16.1241	16.1869	0.0000	0.0000	0	0.00		
			<u>4,917</u>					<u>0.00</u>	<u>0.00</u>	<u>811 220.00</u>	<u>12 127 159 019.50</u>
Option											
Aug 2019	DAEU	17.01 Put	16,200	1134.8036	1104.8483	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	178.7406	190.6386	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			83,517					0.00	0.00	2 321 807.00	12 127 159 019.50
Future											
Jan 2019	DAGB	Future	4,112	17.7353	17.7803	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	27	17.7732	17.8097	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	18.0298	17.8972	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.2947	17.9863	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	18.0216	18.0393	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	18.0178	18.0738	0.0000	0.0000	0	0.00		
			<u>4,429</u>					<u>0.00</u>	<u>0.00</u>	<u>62 521.00</u>	<u>1 044 018 088.80</u>
Total			4,429					0.00	0.00	269 834.00	1 044 018 088.80
Future											
Jan 2019	DAUS	Future	0	13.7961	13.8291	0.0000	0.0000	368	5,076,964.80		
Jan 2019	DAUS	Future	20	13.7961	13.8291	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,901	13.8099	13.8347	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	13.8283	13.8406	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,018	13.8320	13.8492	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,922	13.8328	13.8509	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.8426	13.8734	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Feb 2019	DAUS	Future	6	13.8442	13.8768	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	13.9572	13.8937	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,062	14.0121	13.8987	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.0855	13.9054	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.1038	13.9071	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.2234	13.9442	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,591	14.1971	13.9476	0.0000	0.0000	200	2,783,000.00		
Apr 2019	DAUS	Future	55	14.1444	13.9545	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	260	13.9730	13.9767	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	71	13.9626	13.9960	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,180	13.9697	14.0030	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	475	14.0248	14.0573	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.0319	14.0643	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	105	14.0745	14.1064	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.0798	14.1116	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.1357	14.1666	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.1945	14.2239	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.1981	14.2274	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.2495	14.2776	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3025	14.3302	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.3605	14.3889	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.3641	14.3925	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.4167	14.4457	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.4711	14.5009	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.5314	14.5617	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.5916	14.6226	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.6442	14.6756	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.7103	14.7424	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.8192	14.8523	0.0000	0.0000	0	0.00		
			<u>107,816</u>					<u>568.00</u>	<u>7,859,964.80</u>	<u>11 028 676.00</u>	<u>135 601 086 751.20</u>
Option											
Jan 2019	DAUS	12.66 Put	263	0.0540	0.0935	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.80 Put	25,000	83.5437	86.8889	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.00 Put	500	4.9689	5.8333	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.80 Put	600	163.6822	167.8247	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.95 Put	731	250.3242	252.4791	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.00 Call	731	116.4023	135.6674	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.20 Call	600	66.3450	81.2287	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.20 Put	250	433.5450	430.3287	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.25 Put	250	474.5427	470.2184	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.38 Call	500	38.9535	49.9976	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.55 Call	600	23.2125	31.1868	0.0000	0.0000	0	0.00		

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Jan 2019	DAUS	15.13 Call	250	4.0575	5.7981	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	1.7139	2.5186	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.87 Put	22,000	279.2932	0.0000	0.0000	0.0000	44,000	0.00
Feb 2019	DAUS	13.00 Put	500	25.1678	41.2016	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	181.3722	231.6207	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	442.0981	519.7316	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	237.3237	203.7161	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	475.2237	555.0161	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	162.7318	139.0334	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	117.1526	99.5139	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	54.2947	46.2366	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	29.9462	24.5954	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	244.0010	380.6871	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	125.4444	78.8677	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	264.5427	387.9822	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	319.0112	454.9187	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	48.1226	84.9279	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	442.2071	585.6025	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	471.4629	619.0001	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	276.8609	205.1237	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	127.9392	92.6751	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	87.4893	62.9931	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	281.7665	348.4813	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	359.8630	310.5515	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	126.9751	128.5320	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	757.4325	789.4315	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	649.6871	642.4103	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	682.3228	674.5590	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	243.4879	263.1260	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	127.0865	140.3176	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	94.4112	105.1863	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	165.7048	167.2782	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	695.3669	689.4890	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	727.0528	720.7689	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	291.4560	311.1608	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	167.6248	181.8615	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	129.8112	141.7453	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1071.5656	1062.6182	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	88.4634	96.2101	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	197.5325	199.2146	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	730.2122	725.4500	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	761.2276	756.1202	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	15.17 Call	500	327.6704	347.3218	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	199.4924	214.2882	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	159.2848	171.9793	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	350.9451	351.0762	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	155.3487	167.7635	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	230.2034	231.1784	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	765.6760	761.5831	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	796.1370	791.7177	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	370.6090	389.7444	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	238.0034	252.7693	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	195.4686	208.5706	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	954.2190	948.1957	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	234.9429	248.9318	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	256.2331	256.8038	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	794.5574	790.2723	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	824.6000	820.0289	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	402.7118	420.2520	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	268.7492	282.6501	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	224.6708	237.1416	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	92.9272	101.6994	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	280.0801	280.3852	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	819.4073	815.1478	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	849.1842	844.6857	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	436.5915	452.9729	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	300.7914	314.0638	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	253.7250	265.7106	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	303.9241	303.9217	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	843.8797	838.7291	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	873.4234	868.0568	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	463.1484	479.2294	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	328.7112	341.4268	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	281.8808	293.2441	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	324.5345	324.0014	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	864.1667	858.2244	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	893.5068	887.3488	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	489.3410	504.8335	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	355.3582	367.5219	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	309.7681	319.4225	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	345.0952	343.1161	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	883.4177	876.7815	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	912.5431	905.6846	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	515.0589	530.4154	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	17.05 Call	250	383.3486	395.7933	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	339.3476	349.6620	0.0000	0.0000	0	0.00	
			<u>378,319</u>					<u>44,000.00</u>	<u>0.00</u>	<u>22 216 915.00</u>
		Total	486,135					44,568.00	7,859,964.80	33 245 591.00
										135 601 086 751.20
Future										
Mar 2019	EUUS	Future	5	1.1508	1.1526	0.0000	0.0000	0	0.00	
Jun 2019	EUUS	Future	582	1.1596	1.1614	0.0000	0.0000	0	0.00	
			<u>587</u>					<u>0.00</u>	<u>0.00</u>	<u>745 402.00</u>
		Total	587					0.00	0.00	745 402.00
										8 456 173 900.00
Future										
Mar 2019	GBUS	Future	400	1.2879	1.2888	0.0000	0.0000	0	0.00	
			<u>400</u>					<u>0.00</u>	<u>0.00</u>	<u>171 222.00</u>
		Total	400					0.00	0.00	171 222.00
										2 203 047 628.00
Future										
Mar 2019	ZAAD	Future	7,365	10.3480	10.0329	10.0200	10.0193	12	120,236.50	
Jun 2019	ZAAD	Future	15,741	10.1496	10.1561	0.0000	0.0000	0	0.00	
Sep 2019	ZAAD	Future	650	10.2874	10.2911	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.4168	10.4215	0.0000	0.0000	0	0.00	
			<u>24,156</u>					<u>12.00</u>	<u>120,236.50</u>	<u>3 845 861.00</u>
										33 692 084 273.40
Option										
Dec 2019	ZAAD	11.00 Call	1,000	340.5861	345.4928	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>
		Total	25,156					12.00	120,236.50	3 880 238.00
										33 692 084 273.40
Future										
Mar 2019	ZACA	Future	500	10.8517	10.5124	0.0000	0.0000	0	0.00	
Jun 2019	ZACA	Future	650	10.6508	10.6489	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	250	10.7988	10.7952	0.0000	0.0000	0	0.00	
			<u>1,400</u>					<u>0.00</u>	<u>0.00</u>	<u>149 013.00</u>
		Total	1,400					0.00	0.00	149 013.00
										1 477 461 670.10
Future										
Mar 2019	ZAEU	Future	135,811	16.5054	16.0537	15.9800	15.9667	505	8,073,093.00	
Jun 2019	ZAEU	Future	24,528	16.2918	16.3540	16.3745	16.3079	438	7,149,788.20	
Sep 2019	ZAEU	Future	9,579	16.6242	16.6837	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	Future	277	16.9375	16.9976	0.0000	0.0000	0	0.00	
			<u>170,195</u>					<u>943.00</u>	<u>15,222,881.20</u>	<u>16 053 033.00</u>
										231 721 154 181.70
Option										

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Mar 2019	ZAEU	16.00 Call	650	707.2960	435.0162	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	371.3013	389.4372	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	72.1539	69.0751	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	647.4170	626.1371	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	325.6562	334.8472	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>
	Total		277,295					943.00	15,222,881.20	27 009 909.00 231 721 154 181.70
Future										
Mar 2019	ZAFR	Future	1,143	14.6303	14.2738	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	14.4545	14.5547	0.0000	0.0000	0	0.00	
			<u>1,293</u>					<u>0.00</u>	<u>0.00</u>	<u>626 380.00</u>
	Total		1,293					0.00	0.00	6 751 701 429.60
Future										
Mar 2019	ZAGB	Future	395,576	18.4711	17.9521	17.9100	17.8731	460	8,236,555.00	
Jun 2019	ZAGB	Future	5,764	18.1722	18.2271	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	14,864	18.4731	18.5246	0.0000	0.0000	1,796	33,224,541.50	
Dec 2019	ZAGB	Future	247	18.7520	18.8050	0.0000	0.0000	0	0.00	
			<u>416,451</u>					<u>2,256.00</u>	<u>41,461,096.50</u>	<u>13 793 721.00</u>
	Total									235 826 028 205.20
Option										
Mar 2019	ZAGB	18.00 Put	500	282.8123	507.4832	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	310.7486	168.6710	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	978.3645	1375.9043	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	114.8039	57.3096	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	95.2028	46.8281	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	26.5832	11.4821	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>
	Total		422,951					2,256.00	41,461,096.50	15 576 834.00 235 826 028 205.20
Future										
Jun 2019	ZAKS	Future	2,166	0.1351	0.1352	0.0000	0.0000	0	0.00	
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>
	Total		2,166					0.00	0.00	38 066.00 515 662 000.00
Future										
Sep 2019	ZANZ	Future	213	9.7572	9.7654	0.0000	0.0000	0	0.00	
			<u>213</u>					<u>0.00</u>	<u>0.00</u>	<u>146 359.00</u>
	Total		213					0.00	0.00	166 359.00 1 123 547 250.60
Future										

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Mar 2019	ZATR	Future	25,000	2.5428	2.4552	0.0000	0.0000	0	0.00		
			<u>25,000</u>					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	14.3421	13.9288	0.0000	0.0000	70	97,241,200.00		
			<u>422</u>					70.00	97,241,200.00	155 463.00	180 370 172 810.00
		Total	422					70.00	97,241,200.00	159 986.00	180 370 172 810.00
Future											
Mar 2019	ZAUS	Future	542,548	14.3421	13.9288	13.9388	13.8612	74,829	1,039,944,440.90		
Jun 2019	ZAUS	Future	112,232	14.0496	14.0818	14.0541	14.0465	40	561,936.00		
Sep 2019	ZAUS	Future	14,285	14.2202	14.2489	14.2028	14.2000	10	142,014.00		
Dec 2019	ZAUS	Future	10,100	14.3804	14.4090	0.0000	0.0000	4,665	67,224,982.50		
Mar 2020	ZAUS	Future	4,566	14.5586	14.5892	0.0000	0.0000	0	0.00		
			<u>683,731</u>					79,544.00	1,107,873,373.40	193 831 497.00	2 335 572 743 664.50
Option											
Mar 2019	ZAUS	10.33 Put	1,000	0.0390	0.2329	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	11.74 Put	1,000	1.7056	5.1048	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.47 Put	721	7.4315	16.9701	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.51 Put	720	8.0514	18.1674	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.80 Put	7,520	14.3684	40.3471	0.0000	0.0000	612	0.00		
Mar 2019	ZAUS	12.90 Put	16,000	17.5284	52.5053	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.92 Put	139,342	18.6731	55.2449	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.00 Put	15,434	23.9484	67.3196	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.05 Put	1,155	27.8136	75.8231	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.12 Put	138,000	34.0445	89.0507	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.15 Put	10,125	37.0300	95.2130	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.25 Put	225,407	48.4884	118.0213	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.33 Put	135,043	59.4807	140.1838	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.36 Put	134,750	64.0581	149.1663	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.46 Put	20,000	81.2430	181.8268	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.50 Put	17,050	88.9942	196.0810	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.55 Put	10,000	99.4257	214.8633	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.60 Put	6,570	110.7162	234.7277	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.62 Put	6,432	115.4805	242.9757	0.0000	0.0000	1,224	0.00		
Mar 2019	ZAUS	13.68 Put	14,200	131.4015	268.7588	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.70 Put	2,500	137.2767	277.7013	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.72 Put	10,000	143.3194	286.8139	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.75 Put	17,981	152.6975	300.8053	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.79 Put	262,812	165.7963	320.0595	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.82 Put	1,800	176.0684	334.9489	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	13.85 Put	1,000	186.7267	350.2159	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	190.3662	355.3888	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	205.3530	376.4992	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	617.1575	382.6091	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	587.9388	362.0271	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	35,606	245.8388	433.2271	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	263.2355	457.4730	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	481.6860	289.2438	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	457.7159	273.2773	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	381.7201	615.2971	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	434.7527	258.1372	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	392.6527	629.3372	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	420.6721	664.9906	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	473.8677	731.0598	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	479.9647	738.5466	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	368.1981	214.8592	0.0000	0.0000	612	0.00
Mar 2019	ZAUS	14.48 Call	1,000	360.5732	209.9667	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	353.0888	205.1826	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	510.9888	776.3826	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	530.0298	799.4071	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	549.3799	822.6620	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	609.2409	893.7593	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	671.6764	966.3840	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	256.7479	144.5678	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	721.9106	1024.0680	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	729.1991	1032.3897	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	736.5177	1040.7311	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	743.8639	1049.0918	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	207.0632	114.1392	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	896.2239	1220.0758	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	943.5098	1272.6400	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	959.4319	1290.2784	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	967.4247	1299.1188	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	171.7115	93.4181	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1015.8313	1352.4481	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1023.9710	1361.3827	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	162.4107	88.0902	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	157.0702	85.0452	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1123.1735	1469.5577	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	132.8656	71.0940	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	125.6545	66.7987	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	124.2598	65.9705	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	15.50 Call	224,757	118.8370	62.7614	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	113.6533	59.7087	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	99.4402	51.4181	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	83.9769	42.6716	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	81.7234	41.6260	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	75.2813	38.6429	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	64.6361	33.7329	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	53.8108	28.7499	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	50.1050	27.0424	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	42.1363	23.3629	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	37.4863	21.2043	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	27.8478	16.6766	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	27.0223	16.2839	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	15.5536	10.4917	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	15.3125	10.3622	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	14.1593	9.7401	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	12.8835	9.0443	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	12.6817	8.9334	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	12.4830	8.8242	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	10.4916	7.5233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	10.1360	6.9079	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	9.2502	5.4249	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	7.6712	3.0118	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	6.8488	1.6613	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	5.6344	5.3256	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	60.9614	61.7490	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	125.0872	126.9678	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	177.1035	178.7562	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	182.2382	183.8598	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	251.9763	253.0267	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	1,282	255.2141	256.2343	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	503.4003	500.7756	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	529.4945	526.6050	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	653.3244	682.0759	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	594.8901	591.3255	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	634.9792	630.8158	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	713.6176	708.2598	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	744.9743	739.2375	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	485.5413	510.7080	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	435.7614	459.6896	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	1001.6802	993.0175	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	1016.0270	1007.2059	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	14.82 Call	30,000	370.8173	392.6976	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,500	308.2359	327.8113	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.32 Call	1,980	267.1094	284.9749	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.50 Call	145,182	237.4383	254.5125	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	218.8158	235.0292	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.64 Call	39,589	215.8630	231.9382	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	193.7213	208.7054	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.89 Call	6,800	182.3432	196.7395	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	178.7134	192.9180	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	169.4056	183.1078	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	159.5588	172.7144	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	60.2038	66.0139	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	9.2386	9.3709	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	140.5077	138.5525	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	350.6987	350.9053	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	645.2065	641.8701	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	677.5039	673.9253	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	744.3972	740.3197	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	814.2578	809.6796	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	886.8526	881.7645	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1627.7435	1617.1273	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1770.3775	1758.8576	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	371.1606	387.8801	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	202.6842	212.3713	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	177.3481	185.9454	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	166.3244	174.4268	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	162.4250	170.3538	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	146.7050	153.8993	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	139.0100	146.7004	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	127.0675	137.5577	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	85.6215	93.6416	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	63.8555	64.9068	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	587.5426	584.1388	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	798.7358	793.6602	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	380.7218	393.7541	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	317.6059	329.3237	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	126.0648	132.3891	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	100.0469	101.8305	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	824.6288	817.7893	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	434.9961	445.5215	0.0000	0.0000	0	0.00		
			<u>4,963,735</u>					<u>2,448.00</u>	<u>0.00</u>	<u>63 950 934.00</u>	<u>0.00</u>

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		Total	5,647,466				81,992.00	1,107,873,373.40	257 782 431.00	2 335 572 743 664.50
		Grand Total	6,978,430				129,841.00	1 269 778 752.40	352,362,625	3,243,033,386,411.93