



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 19-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Mar 2019	CAHF	Future	10,000	275.0000	275.0000	0.0000	0.0000	0	0.00		
			<u>10,000</u>					<u>0.00</u>	<u>0.00</u>	<u>10 000.00</u>	<u>2 531 700.00</u>
		Total	10,000					0.00	0.00	10 000.00	2 531 700.00
Future											
Nov 2018	DAEU	Future	37	16.0419	16.0358	0.0000	0.0000	0	0.00		
			<u>37</u>					<u>0.00</u>	<u>0.00</u>	<u>801 399.00</u>	<u>11 967 156 360.40</u>
Option											
Aug 2019	DAEU	17.01 Put	31,200	1021.6895	1045.1579	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	346.6667	359.1386	0.0000	0.0000	0	0.00		
			<u>93,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 390 587.00</u>	<u>0.00</u>
		Total	93,637					0.00	0.00	2 191 986.00	11 967 156 360.40
Future											
Nov 2018	DAGB	Future	13	17.9973	18.0859	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	23	18.1924	18.2833	0.0000	0.0000	0	0.00		
			<u>36</u>					<u>0.00</u>	<u>0.00</u>	<u>53 977.00</u>	<u>889 500 016.60</u>
		Total	36					0.00	0.00	261 290.00	889 500 016.60
Future											
Nov 2018	DAUS	Future	179	14.0146	14.0387	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	368	14.0218	14.0468	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.0231	14.0485	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	2,427	14.0248	14.0502	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	500	14.0368	14.0620	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.0454	14.0705	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,420	14.0773	14.1023	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.0806	14.1056	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	150	14.1020	14.1271	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	8	14.1037	14.1288	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	Future	55	14.1270	14.1520	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,838	14.1287	14.1536	0.0000	0.0000	6	84,798.00
Feb 2019	DAUS	Future	70	14.1506	14.1752	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	6	14.1540	14.1785	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	5,841	14.1761	14.2003	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	80	14.1846	14.2088	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	14.2221	14.2460	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,753	14.2255	14.2494	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	14.2323	14.2562	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,280	14.2801	14.3035	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	55	14.3333	14.3565	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	14.3875	14.4105	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	14.4416	14.4646	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	14.4979	14.5207	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.5515	14.5740	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.6032	14.6254	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	14.6622	14.6846	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.7228	14.7458	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.7795	14.8030	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	14.8401	14.8642	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.9007	14.9254	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.9535	14.9787	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	15.0199	15.0458	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	15.1294	15.1563	0.0000	0.0000	0	0.00
			<u>113,664</u>					<u>6.00</u>	<u>84,798.00</u>
									<u>10 880 370.00</u>
									<u>133 514 757 240.10</u>
Option									
Nov 2018	DAUS	13.67 Put	20,000	20.1719	29.6058	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	20,000	273.2295	271.9848	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.76 Call	4,000	9.0086	20.8676	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	2.7566	4.1612	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	79.5435	86.5190	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	95.5659	103.6398	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	146.5176	180.1343	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	421	314.9718	318.4256	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	77.1710	104.3626	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	15.6373	26.5841	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	14.7229	25.1185	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	0.2142	0.4283	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	0.1481	0.2128	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	1421.9039	1398.6861	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	65,000	91.5720	99.5301	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	147.2089	154.7663	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	14.30 Put	30,000	382.9790	383.0916	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	892.1654	877.0438	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1274.1765	1252.5786	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	125	97.7303	105.0550	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	205.0469	235.0452	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	80.2332	100.1455	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	83.9858	89.9695	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	154.8804	160.4581	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	27.8495	37.5130	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	7.0625	10.5740	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	210.9228	213.9782	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	439.5030	436.6484	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	914.3979	902.4720	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1277.6816	1260.9079	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	33.4194	35.9598	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	44.3936	47.9218	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	115.0978	131.5092	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	99.4564	114.5270	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	23.4338	25.2578	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	200.3358	202.9774	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	274.0915	297.7228	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	435.9693	434.1936	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	980.6825	969.0469	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	3.4365	4.3411	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	2.8162	3.3937	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	159.3108	162.3540	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	343.8695	368.8399	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	177.4874	195.3310	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	17.3311	19.7763	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.88 Call	0	206.9039	223.6277	0.0000	0.0000	4,000	0.00
Jan 2019	DAUS	13.00 Put	500	59.3515	61.7328	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	482.5257	482.3702	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	513.0270	512.3202	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	344.9660	367.6601	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	163.8354	178.2296	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	117.0612	128.5261	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	91.2928	95.1733	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	537.6550	539.0436	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	567.5036	568.4308	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	397.1402	419.5967	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	217.1486	232.5696	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	163.4799	176.1583	0.0000	0.0000	0	0.00

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Mar 2019	DAUS	14.00 Put	65,000	474.6280	477.8882	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	123.3594	128.0587	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	587.0518	589.3646	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	615.9938	617.9583	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	442.8061	464.9278	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	264.1532	280.0093	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	207.8262	221.1859	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.04 Call	0	417.9067	437.8402	0.0000	0.0000	4,000	0.00
Apr 2019	DAUS	13.00 Put	3,000	155.4189	161.0174	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1086.9170	1116.5035	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	630.0856	633.5595	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	658.7298	661.8981	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	481.8007	503.6358	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	306.9412	323.2264	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	249.9737	264.0529	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	184.6842	190.6648	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	667.9139	672.0780	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	696.3896	700.2828	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	516.4437	538.0816	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	345.7642	361.8460	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	285.5293	299.7658	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1009.9405	1010.9791	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	197.4068	207.2183	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	209.0543	215.0159	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	698.6116	702.9166	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	726.9975	731.0769	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	545.3308	566.6038	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	376.1542	392.4547	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	316.5143	331.1727	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	352.9727	359.2165	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	308.3918	322.6960	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	235.6984	241.6131	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	730.2662	734.7354	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	758.5262	762.7983	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	580.8956	601.8779	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	412.1979	428.8065	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	353.1152	368.2320	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	905.8067	908.9562	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	401.5458	417.9828	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	256.7481	262.6168	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	756.6973	761.5025	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	784.8210	789.4615	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	15.52 Call	500	605.4505	626.1868	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	438.9740	455.8292	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	379.8288	395.2944	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	197.6821	207.8334	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	275.4604	281.9013	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	780.0038	785.1624	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	807.9514	812.9679	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	634.5034	655.1193	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	468.7293	485.8764	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	407.5346	423.3452	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	293.4042	297.4007	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	802.3857	807.3030	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	830.1849	834.9681	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	656.4055	676.7417	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	493.4688	510.4366	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	433.9360	449.2856	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	308.3863	313.7209	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	822.4259	827.8687	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	850.1266	855.4379	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	682.3050	703.2638	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	520.3885	538.3462	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	461.7364	478.2548	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	325.6763	331.8412	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	843.6981	849.3523	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	871.3144	876.8292	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	713.0804	734.5503	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	554.7659	573.1568	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	496.9244	513.8901	0.0000	0.0000	0	0.00		
			<u>700,153</u>					<u>8,006.00</u>	<u>0.00</u>	<u>21 881 883.00</u>	<u>0.00</u>
	Total		813,817					8,006.00	84,798.00	32 762 253.00	133 514 757 240.10
Future											
Dec 2018	EUUS	Future	50	1.1451	1.1426	0.0000	0.0000	0	0.00		
			<u>50</u>					<u>0.00</u>	<u>0.00</u>	<u>744 705.00</u>	<u>8 448 109 050.00</u>
	Total		50					0.00	0.00	744 705.00	8 448 109 050.00
Future											
Dec 2018	GBUS	Future	250	1.2840	1.2880	0.0000	0.0000	0	0.00		
			<u>250</u>					<u>0.00</u>	<u>0.00</u>	<u>170 231.00</u>	<u>2 190 547 280.00</u>
	Total		250					0.00	0.00	170 231.00	2 190 547 280.00

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Dec 2018	ZAAD	Future	23,926	10.2527	10.2930	10.2401	10.2401	59	604,165.90		
Mar 2019	ZAAD	Future	324	10.3821	10.4227	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,934	10.5093	10.5489	0.0000	0.0000	0	0.00		
			<u>29,184</u>					<u>59.00</u>	<u>604,165.90</u>	<u>3 765 729.00</u>	<u>32 860 524 940.50</u>
	Total		29,184					59.00	604,165.90	3 798 106.00	32 860 524 940.50
Future											
Dec 2018	ZACA	Future	500	10.6563	10.7138	0.0000	0.0000	0	0.00		
Mar 2019	ZACA	Future	400	10.7969	10.8548	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	10.9406	10.9994	0.0000	0.0000	0	0.00		
			<u>1,150</u>					<u>0.00</u>	<u>0.00</u>	<u>139 613.00</u>	<u>1 376 968 315.10</u>
	Total		1,150					0.00	0.00	139 613.00	1 376 968 315.10
Future											
Dec 2018	ZADK	Future	140	2.1611	2.1603	0.0000	0.0000	0	0.00		
			<u>140</u>					<u>0.00</u>	<u>0.00</u>	<u>12 435.00</u>	<u>267 991 609.00</u>
	Total		140					0.00	0.00	12 435.00	267 991 609.00
Future											
Dec 2018	ZAEU	Future	130,214	16.0867	16.0803	16.1042	15.9862	6,107	98,320,813.40		
Mar 2019	ZAEU	Future	36,735	16.4112	16.4044	16.4173	16.3200	130	2,133,333.40		
Jun 2019	ZAEU	Future	4,906	16.7162	16.7086	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	9,050	17.0550	17.0478	0.0000	0.0000	0	0.00		
			<u>180,905</u>					<u>6,237.00</u>	<u>100,454,146.80</u>	<u>15 671 289.00</u>	<u>225 520 769 304.40</u>
	Total							6,237.00	100,454,146.80	15 671 289.00	225 520 769 304.40
Option											
Mar 2019	ZAEU	15.60 Put	462	240.1486	255.6414	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	808.4606	820.5467	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	1240.1294	1260.4855	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	67.2039	73.0272	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	596.2894	611.9964	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	87.8679	93.3753	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	592.4618	613.3447	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	482.3824	496.6967	0.0000	0.0000	0	0.00		
			<u>108,486</u>					<u>0.00</u>	<u>0.00</u>	<u>10 956 414.00</u>	<u>0.00</u>
	Total		289,391					6,237.00	100,454,146.80	26 627 703.00	225 520 769 304.40
Future											
Dec 2018	ZAFR	Future	1,616	14.1339	14.0766	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	14.7182	14.6571	0.0000	0.0000	0	0.00		
			<u>1,766</u>					<u>0.00</u>	<u>0.00</u>	<u>620 908.00</u>	<u>6 672 647 028.20</u>
	Total		1,766					0.00	0.00	620 908.00	6 672 647 028.20

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Dec 2018	ZAGB	Future	449,227	18.0391	18.1275	18.0700	18.0500	20	361,495.00		
Mar 2019	ZAGB	Future	11,340	18.3324	18.4231	18.3742	18.3100	64	1,172,696.30		
Jun 2019	ZAGB	Future	5,506	18.6088	18.6996	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	8,875	18.9149	19.0067	0.0000	0.0000	0	0.00		
			<u>474,948</u>					<u>84.00</u>	<u>1,534,191.30</u>	<u>12 896 393.00</u>	<u>219 554 367 239.00</u>
Option											
Dec 2018	ZAGB	19.30 Call	200	37.5958	56.3341	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	554.3648	541.7449	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1259.1190	1220.1836	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	228.8909	263.8229	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	201.6659	233.4724	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	80.0069	95.1597	0.0000	0.0000	0	0.00		
			<u>4,200</u>					<u>0.00</u>	<u>0.00</u>	<u>1 779 113.00</u>	<u>0.00</u>
		Total	479,148					84.00	1,534,191.30	14 675 506.00	219 554 367 239.00
Future											
Dec 2018	ZAJY	Future	6,905	0.1248	0.1251	0.0000	0.0000	0	0.00		
			<u>6,905</u>					<u>0.00</u>	<u>0.00</u>	<u>1 021 902.00</u>	<u>11 470 576 312.50</u>
		Total	6,905					0.00	0.00	1 021 902.00	11 470 576 312.50
Future											
Jun 2019	ZAKS	Future	2,166	0.1339	0.1339	0.0000	0.0000	0	0.00		
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>	<u>515 662 000.00</u>
		Total	2,166					0.00	0.00	38 066.00	515 662 000.00
Future											
Dec 2018	ZAUM	Future	439	14.0489	14.0739	0.0000	0.0000	0	0.00		
Mar 2019	ZAUM	Future	10	14.2068	14.2308	0.0000	0.0000	0	0.00		
			<u>449</u>					<u>0.00</u>	<u>0.00</u>	<u>153 916.00</u>	<u>178 157 495 630.00</u>
		Total	449					0.00	0.00	158 439.00	178 157 495 630.00
Future											
Dec 2018	ZAUS	Future	783,626	14.0489	14.0739	14.0944	13.9700	43,528	611,035,539.90		
Mar 2019	ZAUS	Future	58,859	14.2068	14.2308	14.2284	14.1300	11,743	168,870,767.30		
Jun 2019	ZAUS	Future	18,831	14.3578	14.3809	14.3400	14.3131	29	415,380.20		
Sep 2019	ZAUS	Future	14,099	14.5229	14.5456	0.0000	0.0000	150	2,174,900.00		
Dec 2019	ZAUS	Future	9,600	14.6837	14.7063	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	3,966	14.8675	14.8918	0.0000	0.0000	0	0.00		
			<u>888,981</u>					<u>55,450.00</u>	<u>782,496,587.40</u>	<u>189 603 952.00</u>	<u>2 275 685 209 183.10</u>
Option											

<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>
Dec 2018	ZAUS	11.64 Put	2,764	0.2016	0.2611	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.2898	0.3691	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.4736	0.5896	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.6551	0.8035	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.6989	0.8546	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	0.9042	1.0927	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	1.2449	1.4826	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	1.4593	1.7255	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	2.1990	2.5524	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1552.0970	1577.5495	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	3.1970	3.6495	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	4.7707	5.3510	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	5.5256	6.1903	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	6.7457	7.5800	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	11.8747	13.3940	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1062.5611	1089.3058	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	13.6611	15.4058	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	15.7071	17.7015	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	18.0479	20.3173	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	872.6769	900.5740	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	25.1155	28.1507	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	826.1590	854.4075	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	27.2590	30.5075	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	32.9578	36.7380	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	33.8587	37.7177	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	650.4307	680.0028	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	51.5307	56.1028	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	610.0570	639.8441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	61.1570	65.9441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	84.2374	89.2859	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	106.6739	111.7367	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	112.8643	117.8996	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	129.3904	134.3017	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	143.7086	148.4602	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	396.3432	426.0454	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	147.4432	152.1454	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	188.2213	192.2498	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	309.8687	338.4304	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	284.1848	312.1984	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	235.2848	238.2984	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	289.9007	291.5320	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	301.8157	303.1293	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.13 Call	20,000	226.7615	252.9123	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	235,564	320.1244	320.9449	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	326.3420	326.9937	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	200.6681	225.6265	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	351.7681	351.7265	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	378.0589	377.3020	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	183.6636	207.7239	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	419.0459	417.1751	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	159.1028	181.6642	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	440.2028	437.7642	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	153.4426	175.6226	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	454.5426	451.7226	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	483.7690	480.1791	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	140.0863	161.3013	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	130.1787	150.6190	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	116.5296	135.8090	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	567.6296	561.9090	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	575.4897	569.5763	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	96.7292	114.1053	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	647.8292	640.2053	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	94.9360	112.1250	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	93.1734	110.1773	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	705.9265	697.0130	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	80.1698	95.7166	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	765.4463	755.2895	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	72.9545	87.6240	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	774.0545	763.7240	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	66.0950	79.9654	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	817.1950	806.0654	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	63.5272	77.0838	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	61.0536	74.3002	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	59.8516	72.9452	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	905.2743	892.6165	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	44.3353	55.2581	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	20,000	995.4353	981.3581	0.0000	0.0000	5,000	0.00
Dec 2018	ZAUS	15.01 Call	10,000	43.4533	54.2391	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	36.9833	46.7266	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	36.2440	45.8626	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	32.7609	41.7729	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	29.6088	38.0441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1180.7088	1164.1441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1227.8573	1210.7462	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.30 Put	35,000	1275.2800	1257.6513	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	20.9837	27.6781	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	17.4839	23.3625	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	16.7793	22.4489	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	16.1033	21.5702	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1467.2033	1447.6702	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	15.7755	21.1438	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	13.3847	18.0166	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	13.1126	17.6593	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	12.8462	17.3087	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	10.6829	14.4490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	10.0475	13.6041	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1799.1295	1777.0055	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	7.8678	10.6885	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	6.9665	9.4740	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	5.8091	7.9068	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	4.6597	6.3413	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	4.3891	5.9716	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	3.8961	5.2965	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	3.5998	4.8901	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	1.9335	2.5949	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	1.2308	1.6262	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	1.1377	1.4649	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.1286	2.6404	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	14.9723	15.9583	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	47.3601	51.0169	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	50.2683	54.1479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	92.5196	96.6814	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	95.9815	100.2092	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	110.7772	115.2648	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	120.8211	125.4603	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	135.9504	140.7887	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	142.8267	147.7450	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	167.5023	172.6509	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	189.2410	194.5381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	197.8624	203.2045	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	209.7615	215.1593	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	228.4888	233.9476	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	550	241.5670	247.0505	0.0000	0.0000	500	0.00
Mar 2019	ZAUS	13.55 Put	10,000	259.7806	264.0867	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	9,570	278.7985	283.0226	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	310.8972	314.9660	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.70 Put	2,500	319.2447	323.2659	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	327.7172	331.6908	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	340.6681	344.5604	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	358.3768	362.1535	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	385.8929	389.4706	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	390.5876	394.1330	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	409.6783	413.0776	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	17,406	459.5673	462.5543	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	480.3731	483.1752	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	568.3054	570.2866	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	615.8443	616.7796	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	534.8034	559.5752	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	658.8741	659.2368	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	703.1974	702.9711	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	716.0951	715.6962	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	722.5785	722.0963	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	468.9852	492.2414	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	462.1787	485.2627	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	755.3787	754.4627	0.0000	0.0000	10,000	0.00
Mar 2019	ZAUS	14.53 Put	108	775.3530	774.1757	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	795.5430	794.1028	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	857.3704	855.1312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	921.0042	917.9625	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	971.6860	968.0178	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	979.0094	975.2509	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	986.3530	982.5042	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	993.7134	989.7743	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	200	321.0219	339.5911	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1145.0934	1139.2982	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1191.9190	1185.5765	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1207.6602	1201.1387	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1215.5553	1208.9446	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	284.0993	301.1310	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1263.2647	1256.1203	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1271.2707	1264.0386	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	274.1287	290.7220	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1368.5143	1360.2431	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	232.9480	247.5917	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	231.3192	245.8821	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	224.9299	239.1722	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	221.8119	235.8932	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	218.7397	232.6611	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Mar 2019	ZAUS	15.66 Call	139,342	200.7400	214.2853	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	179.8369	192.6320	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	177.2314	189.8810	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	169.6506	181.8779	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	158.9301	170.5415	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	156.6473	168.1256	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	142.6591	153.2970	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	126.3919	136.0100	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	119.4547	128.6210	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	103.8988	112.0164	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	102.4717	110.4908	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	80.2479	86.6656	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	79.7155	86.0936	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	77.1086	83.2913	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	74.3682	80.0650	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	73.9671	79.5411	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	73.5677	79.0211	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	68.6403	73.6278	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	66.1754	70.9279	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	59.7857	63.9224	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	47.2477	50.1517	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	39.8637	42.0289	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.3180	8.1907	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	67.3104	70.6280	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	140.6528	145.8856	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	192.0415	198.0865	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	197.0595	203.1527	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	264.2289	270.7835	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	491.5555	496.5849	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	515.6732	520.5689	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	943.5191	971.2112	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	750.8429	776.7482	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	690.9245	715.8329	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	945.4203	946.9118	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	610.1566	633.4897	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,000	528.6392	549.8680	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	409.0693	426.6750	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	375.2779	391.7048	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	353.0489	369.4023	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	339.0409	354.9254	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	147.9250	153.5913	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	12.7752	14.9062	0.0000	0.0000	0	0.00

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Sep 2019	ZAUS	12.50 Put	1,000	129.4238	134.6758	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	616.5180	621.9425	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	646.8180	652.0670	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	709.5839	714.4437	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	736.5722	741.2597	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	775.1642	779.5941	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	843.4660	847.4298	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	1081.3233	1083.9611	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1535.5227	1534.6438	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1669.8200	1667.9431	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	562.4316	581.5584	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	338.9092	352.7487	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	299.3246	310.6655	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	283.5163	294.2181	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	277.8871	288.3533	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	254.9358	264.4250	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	244.7779	253.8171	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	236.4029	245.0653	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	234.4003	242.9698	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	182.3847	191.9944	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	61.6396	66.2332	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	568.7029	575.4694	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	471.6028	488.5131	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	233.1497	243.9610	0.0000	0.0000	0	0.00		
			<u>8,175,460</u>					<u>15,500.00</u>	<u>0.00</u>	<u>61 503 549.00</u>	<u>0.00</u>
	Total		9,064,441					70,950.00	782,496,587.40	251 107 501.00	2 275 685 209 183.10
	Grand Total		10,792,530					85,336.00	885 173 889.40	343,639,161	3,154,855,065,104.33