



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 26-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Mar 2019	CAHF	Future	10,000	128.1100	140.6900	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	15.7293	15.7622	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											
Dec 2018	DAEU	15.83 Put	32,000	280.9980	278.7627	0.0000	0.0000	0	0.00		
Jan 2019	DAEU	15.85 Put	13,000	322.3600	0.0000	0.0000	0.0000	26,000	0.00		
Aug 2019	DAEU	17.01 Put	31,200	1192.4089	1175.5471	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	284.3619	294.1079	0.0000	0.0000	0	0.00		
			<u>138,600</u>					<u>26,000.00</u>	<u>0.00</u>	<u>1 480 587.00</u>	<u>0.00</u>
		Total	138,637					26,000.00	0.00	2 281 986.00	11 967 156 360.40
Future											
Nov 2018	DAGB	Future	13	17.7941	17.8204	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	23	17.9874	18.0153	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	24	18.1619	18.1911	0.0000	0.0000	0	0.00		
			<u>60</u>					<u>0.00</u>	<u>0.00</u>	<u>54 001.00</u>	<u>889 934 296.60</u>
		Total	60					0.00	0.00	261 314.00	889 934 296.60
Future											
Nov 2018	DAUS	Future	368	13.8517	13.8857	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	13.8516	13.8874	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	1,535	13.8533	13.8891	0.0000	0.0000	382	5,277,225.00		
Dec 2018	DAUS	Future	500	13.8649	13.9010	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	13.8732	13.9094	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	2,540	13.9050	13.9413	0.0000	0.0000	665	9,255,137.50		
Jan 2019	DAUS	Future	55	13.9083	13.9447	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	Future	150	13.9302	13.9666	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	8	13.9319	13.9683	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	13.9470	13.9835	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.9554	13.9920	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	2,156	13.9571	13.9938	0.0000	0.0000	318	4,438,326.00		
Feb 2019	DAUS	Future	70	13.9794	14.0164	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.9828	14.0199	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.0000	14.0373	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,841	14.0051	14.0425	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.0136	14.0510	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.0508	14.0887	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,753	14.0542	14.0921	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.0610	14.0989	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.1084	14.1468	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.1610	14.2000	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.2144	14.2540	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.2679	14.3081	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.3232	14.3640	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3757	14.4169	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.4265	14.4681	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.4829	14.5251	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.5409	14.5836	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.5952	14.6384	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.6533	14.6969	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.7113	14.7554	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.7619	14.8064	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.8256	14.8705	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.9304	14.9762	0.0000	0.0000	0	0.00		
			<u>112,097</u>					<u>1,365.00</u>	<u>18,970,688.50</u>	<u>10 903 008.00</u>	<u>133 829 241 733.90</u>
Option											
Nov 2018	DAUS	14.76 Call	4,000	0.2990	2.1295	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.00 Put	500	1.2999	1.8635	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.80 Put	1,000	81.2381	94.2887	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.85 Put	600	101.2677	113.8368	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.08 Call	500	36.8649	63.5669	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	421	413.0812	392.2503	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.30 Call	600	12.9002	25.2330	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.80 Call	600	1.5207	3.3347	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.82 Call	250	1.4149	3.1322	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	0.0237	0.0132	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	0.1467	0.1041	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.45 Put	23,000	1589.2309	1554.1349	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>
Dec 2018	DAUS	13.75 Put	65,000	105.9340	112.1554	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	175.3577	179.3734	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	471.9439	459.1588	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	1041.3076	1010.1859	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1438.2986	1403.7556	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.50 Put	25,000	43.4951	44.8020	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	125	112.6554	117.9795	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	88.9352	122.3255	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	20.8009	36.7215	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	93.7818	99.5303	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	182.0355	187.0184	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	6.3971	11.3761	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	1.5009	2.7188	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	253.6829	252.6810	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	300.9604	298.1039	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	525.5945	514.3364	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	1045.2613	1021.1689	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1426.4513	1397.2319	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	33.6748	38.3031	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	49.1236	54.1241	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	58.0896	74.5079	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	48.1507	62.9156	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	30.1193	30.4788	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	240.1196	236.3448	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	180.4891	204.0649	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	517.1117	503.7989	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	1108.5409	1083.3897	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	1.8013	2.2620	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	1.6989	2.0285	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	154.2448	152.4599	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	296.8667	326.2778	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	159.0669	180.1592	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	189.8954	186.6683	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	240.2427	265.6919	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	111.7747	128.0227	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	15.9876	16.9905	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	67.0867	66.1742	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	551.9729	538.7183	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	585.5412	571.6131	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	253.6966	274.7409	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	110.3560	122.6696	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	75.4451	85.0646	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	13.00 Put	500	104.9782	102.5914	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	604.9053	592.0242	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	637.3126	623.8780	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	309.3501	330.3789	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	161.0948	174.6964	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	117.7798	128.8187	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	532.4327	521.6233	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	141.5683	138.6021	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	655.3600	642.0598	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	686.9586	673.1621	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	360.4444	380.5439	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	209.5187	222.9842	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	161.1371	172.5516	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	177.3571	173.9207	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	954.0824	984.9368	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	699.0720	685.5364	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	729.9805	715.9864	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	404.1644	423.2425	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	252.4254	266.5290	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	202.7377	214.5587	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	209.8663	206.0540	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	736.9740	723.2850	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	767.3436	753.2457	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	441.6621	460.3664	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	289.1755	303.3048	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	237.2711	249.3492	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1096.7406	1078.9456	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	167.8357	175.0461	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	236.4619	231.9976	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	768.2946	754.4170	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	798.3145	784.0458	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	473.1233	491.3783	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	320.5584	335.0180	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	268.6976	281.0927	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	393.2888	385.6605	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	262.6706	274.3470	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	265.2915	260.1373	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	799.9980	786.2433	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	829.8157	815.6718	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	510.2922	528.3314	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	357.8441	371.6471	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	305.4928	317.7943	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	14.48 Put	3,147	983.4347	967.3537	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,147	350.0663	363.6044	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	290.1402	284.8215	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.20 Put	250	827.2931	812.8883	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	856.9003	842.1575	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	536.7867	554.6744	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	385.3029	399.4408	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	332.7475	345.2205	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	167.3569	173.6804	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	313.2416	307.6243	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	850.6131	835.9922	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	880.0392	865.0821	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	566.9506	584.5292	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	415.5465	429.3221	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	360.7952	372.8464	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	335.8903	326.4970	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	872.3286	857.7386	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	901.5733	886.6305	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	590.3351	607.6226	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	440.6160	454.5807	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	386.7278	399.1961	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	351.5430	342.4717	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	891.5698	877.2944	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	920.6385	906.0179	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	614.1362	632.2180	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	466.1219	480.5571	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	413.0455	426.0595	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	369.0015	359.9554	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	913.6797	898.9790	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	942.6113	927.5720	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	644.4632	662.1785	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	499.9537	514.1104	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	447.4626	460.2288	0.0000	0.0000	0	0.00		
			<u>704,953</u>					<u>0.00</u>	<u>0.00</u>	<u>21 944 683.00</u>	<u>0.00</u>
		Total	817,050					1,365.00	18,970,688.50	32 847 691.00	133 829 241 733.90
Future											
	Dec 2018	EUUS	Future	50	1.1366	1.1361	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

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Dec 2018	GBUS	Future	250	1.2852	1.2838	0.0000	0.0000	0	0.00		
			250					0.00	0.00	170 234.00	2 190 585 942.00
		Total	250					0.00	0.00	170 234.00	2 190 585 942.00
Future											
Dec 2018	ZAAD	Future	23,971	10.0574	10.0660	10.0765	10.0684	104	1,047,591.50		
Mar 2019	ZAAD	Future	324	10.1894	10.1983	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,934	10.3157	10.3246	0.0000	0.0000	0	0.00		
			29,229					104.00	1,047,591.50	3 765 951.00	32 862 759 488.10
		Total	29,229					104.00	1,047,591.50	3 798 328.00	32 862 759 488.10
Future											
Dec 2018	ZACA	Future	700	10.5077	10.5074	0.0000	0.0000	0	0.00		
Mar 2019	ZACA	Future	250	10.6498	10.6499	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	10.7943	10.7947	0.0000	0.0000	0	0.00		
			1,200					0.00	0.00	140 963.00	1 391 359 940.10
		Total	1,200					0.00	0.00	140 963.00	1 391 359 940.10
Future											
Dec 2018	ZADK	Future	140	2.1203	2.1245	0.0000	0.0000	0	0.00		
			140					0.00	0.00	12 435.00	267 991 609.00
		Total	140					0.00	0.00	12 435.00	267 991 609.00
Future											
Dec 2018	ZAEU	Future	110,940	15.7725	15.8058	15.7020	15.7020	44	691,989.60		
Mar 2019	ZAEU	Future	37,049	16.0933	16.1296	16.0381	16.0381	347	5,600,314.10		
Jun 2019	ZAEU	Future	4,675	16.3940	16.4312	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	9,050	16.7263	16.7650	0.0000	0.0000	0	0.00		
			161,714					391.00	6,292,303.70	15 701 562.00	226 001 779 007.20
Option											
Mar 2019	ZAEU	15.60 Put	462	324.5950	317.4628	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	608.5138	634.3826	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	1462.8371	1439.8740	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	39.1979	43.3151	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	500.4319	514.8583	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	100.8530	99.3685	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	698.9982	688.1014	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	425.5901	436.1183	0.0000	0.0000	0	0.00		
			108,486					0.00	0.00	10 956 414.00	0.00
		Total	270,200					391.00	6,292,303.70	26 657 976.00	226 001 779 007.20

<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>	
Future											
Dec 2018	ZAFR	Future	1,366	13.9129	13.9708	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	14.4916	14.5542	0.0000	0.0000	0	0.00		
			<u>1,516</u>					<u>0.00</u>	<u>0.00</u>	<u>621 158.00</u>	<u>6 676 179 862.80</u>
		Total	1,516					0.00	0.00	621 158.00	6 676 179 862.80
Future											
Dec 2018	ZAGB	Future	417,890	17.8345	17.8612	17.7239	17.7239	5,687	101,530,897.10		
Mar 2019	ZAGB	Future	11,650	18.1282	18.1572	18.1250	17.9575	110	1,984,350.00		
Jun 2019	ZAGB	Future	5,301	18.4029	18.4334	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	9,895	18.7038	18.7360	0.0000	0.0000	0	0.00		
			<u>444,736</u>					<u>5,797.00</u>	<u>103,515,247.10</u>	<u>12 935 625.00</u>	<u>220 256 706 620.70</u>
		Total	444,736					5,797.00	103,515,247.10	12 935 625.00	220 256 706 620.70
Option											
Dec 2018	ZAGB	19.30 Call	200	16.1583	20.9807	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	605.3083	600.0522	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1374.7435	1358.5826	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	171.7453	179.1108	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	149.5958	155.7168	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	56.6538	57.4851	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	448,936					5,797.00	103,515,247.10	14 714 738.00	220 256 706 620.70
Future											
Dec 2018	ZAJY	Future	6,905	0.1225	0.1235	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	0.1342	0.1347	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	429	13.8766	13.9127	0.0000	0.0000	0	0.00		
Mar 2019	ZAUM	Future	10	14.0356	14.0733	0.0000	0.0000	0	0.00		
			<u>439</u>					<u>0.00</u>	<u>0.00</u>	<u>153 956.00</u>	<u>178 213 697 080.00</u>
		Total	439					0.00	0.00	158 479.00	178 213 697 080.00
Future											
Dec 2018	ZAUS	Future	790,415	13.8766	13.9127	13.9462	13.7500	75,478	1,044,993,331.80		
Mar 2019	ZAUS	Future	64,045	14.0356	14.0733	14.0375	13.9076	3,089	43,098,622.00		

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Jun 2019	ZAUS	Future	18,719	14.1851	14.2244	14.1625	14.1437	4	56,593.60		
Sep 2019	ZAUS	Future	14,099	14.3477	14.3887	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	Future	9,600	14.5035	14.5459	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	3,966	14.6795	14.7233	0.0000	0.0000	0	0.00		
			<u>900,844</u>					<u>78,571.00</u>	<u>1,088,148,547.40</u>	<u>190 040 163.00</u>	<u>2 281 751 017 658.70</u>

Option

Dec 2018	ZAUS	11.64 Put	2,764	0.1708	0.2277	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.2514	0.3327	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.4246	0.5551	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.6006	0.7783	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.6436	0.8324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	0.8480	1.0881	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	1.1947	1.5170	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	1.4169	1.7891	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	2.2011	2.7370	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1379.8918	1416.7311	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	3.2918	4.0311	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	4.2924	5.4352	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	4.7694	6.1098	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	5.5469	7.2121	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	8.7471	11.7456	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	886.4615	926.0116	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	89,580	9.8615	13.3116	0.0000	0.0000	120,564	0.00
Dec 2018	ZAUS	13.05 Put	1,500	11.1461	15.1061	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	12.6314	17.1647	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	692.9829	734.9708	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	18.2429	24.3872	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	647.9402	690.5541	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	21.3402	27.8541	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	30.1527	37.4275	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	31.6089	38.9777	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	480.0746	524.2649	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	53.4746	61.5649	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	441.8233	486.0450	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	65.2233	73.3450	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	93.9267	101.5365	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	122.2076	128.8171	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	130.0423	136.3186	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	150.9825	156.2868	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	169.1317	173.5180	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	250.4626	290.7015	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	173.8626	178.0015	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.90 Put	35,000	225.3730	226.6711	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	181.4027	217.5000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	162.5991	197.2908	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	285.9991	284.5908	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	353.3202	348.8792	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	367.5193	362.4466	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	121.3060	152.0141	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	115,000	389.2460	383.2160	0.0000	0.0000	241,128	0.00
Dec 2018	ZAUS	14.16 Put	36,200	396.5999	390.2490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	103.1463	131.6053	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	426.5463	418.9053	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	457.3046	448.3717	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	91.7159	118.5603	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	504.8548	493.9956	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	75.8181	100.1072	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	529.2181	517.4072	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	72.2646	95.9256	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	545.6646	533.2256	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	579.0205	565.3435	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	64.0512	86.1700	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	58.1237	79.0411	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	50.2017	69.3826	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	673.6017	656.6826	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	682.3868	665.1865	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	39.2547	55.7390	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	762.6547	743.0390	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	38.2385	54.4370	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	37.2432	53.1573	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	826.0194	804.4635	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	30.1096	43.8719	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	890.4465	867.1122	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	26.3282	38.8529	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	899.7282	876.1529	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	23.0000	34.3722	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	946.4000	921.6722	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	21.7847	32.7188	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	20.6310	31.1401	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	20.0759	30.3781	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	1040.9108	1014.1229	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	13.2960	20.8605	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	1136.6960	1108.1605	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	12.9333	20.3389	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.09 Call	500	10.3595	16.5947	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	10.0754	16.1759	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	8.7655	14.2310	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	7.6239	12.5132	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1331.0239	1299.8132	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1380.0294	1348.2970	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1429.1646	1396.9619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	4.9439	8.3123	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	4.0748	6.8684	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	3.9059	6.5859	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	3.7449	6.3160	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1627.1449	1593.6160	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	3.6672	6.1855	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	3.1078	5.2422	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	3.0450	5.1357	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	2.9836	5.0318	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	2.4905	4.1929	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	2.3475	3.9487	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1965.2985	1930.4788	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	1.8629	3.1175	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	1.6648	2.7765	0.0000	0.0000	120,564	0.00
Dec 2018	ZAUS	16.00 Call	5,000	1.4121	2.3406	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	1.1622	1.9090	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	1.1034	1.8074	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.9961	1.6221	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.9315	1.5107	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.5626	0.8771	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.4469	0.7146	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.4279	0.7443	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.2122	2.2492	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	16.5525	16.6550	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	50.7284	49.7427	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	53.7994	52.6952	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	106.7561	104.3294	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	110.6744	108.1697	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	127.3988	124.5612	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	138.7252	135.6643	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	155.7509	152.3597	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	163.4774	159.9357	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	191.1347	187.0601	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	215.4247	210.8895	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	225.2685	220.5358	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.40 Put	2,100	239.4844	234.4338	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	261.8175	256.2737	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	277.3810	271.4963	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	297.5894	291.2672	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	9,570	318.6365	311.8643	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	354.0489	346.5318	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	363.2344	355.5282	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	372.5516	364.6519	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	386.7706	378.5822	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	406.1898	397.6055	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	436.2846	427.1026	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	441.4129	432.1308	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	462.2400	452.5517	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	17,406	516.4975	505.7791	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	539.0542	527.9190	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	471.8404	496.6261	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	636.2404	623.3261	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	687.6062	673.7988	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	436.3173	459.9883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	733.9462	719.3654	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	781.5322	766.1824	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	795.3480	779.7810	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	802.2951	786.6198	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	378.8700	400.5711	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	372.9738	394.4602	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	837.3738	821.1602	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	858.7012	842.1643	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	880.2298	863.3778	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	946.0092	928.2116	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	1013.4795	994.7660	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	295.0010	313.4246	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1067.1229	1047.7542	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1074.8633	1055.4056	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1082.6221	1063.0728	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1090.3992	1070.7587	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	252.8111	269.4631	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1249.5783	1228.1926	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1298.5915	1276.7106	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1315.0502	1293.0052	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1323.3015	1301.1751	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	222.0507	237.3045	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1373.1100	1350.5047	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	15.20 Put	2,500	1381.4605	1358.7761	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	213.8024	228.6635	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1482.7013	1459.1035	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	186.7997	200.3209	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	179.9892	193.1578	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	178.5765	191.6692	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	173.0464	185.8392	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	170.3476	182.9949	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	167.6957	180.1966	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	152.6803	164.3354	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	135.9132	146.5819	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	133.8312	144.3759	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	127.7963	137.9714	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	119.2921	128.9391	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	117.4884	127.0208	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	106.4710	115.2913	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	93.7573	101.7253	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	88.3706	95.9664	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	76.3705	83.1109	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	75.2764	81.9365	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	59.0824	64.4893	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	58.7418	64.1201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	57.0788	62.3138	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	55.1664	60.2364	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	54.8572	59.8997	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	54.5492	59.5656	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	50.7565	55.4394	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	48.8640	53.3800	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	43.9754	48.0512	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	34.4602	37.6541	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	26.7439	29.2875	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.9041	8.1307	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	81.4263	80.4828	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	161.4012	158.3877	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	218.0764	213.8344	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	223.6068	219.2528	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	297.3003	291.4835	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	547.8282	537.4929	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	573.6942	562.9318	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	832.3279	860.0091	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	655.0458	678.9311	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	600.6360	623.1678	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	14.63 Put	8,203	1029.5217	1012.3323	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	527.7667	548.3333	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,000	455.4864	473.9458	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	349.5848	364.6325	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	317.7625	331.8376	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	298.3392	311.7997	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	286.1316	299.1935	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	125.4734	132.1504	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	13.1721	13.4956	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	155.2936	151.2107	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	677.8989	665.3951	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	710.0273	697.1061	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	776.4206	762.6613	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	804.9082	790.7990	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	845.5792	830.9875	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	917.3919	901.9820	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	1165.2911	1147.6577	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1637.3956	1615.4350	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1775.9375	1752.9106	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	499.3850	516.1692	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	298.6090	308.4248	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	267.2397	274.3243	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	253.3875	259.9400	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	248.4579	254.8181	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	228.3975	233.9642	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	219.5333	224.7434	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	212.2324	217.1487	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	209.4370	215.3334	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	154.2024	160.1546	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	72.2101	72.1197	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	620.6099	609.7741	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	423.5623	436.3095	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	199.9186	208.2236	0.0000	0.0000	0	0.00		
			<u>7,845,452</u>					<u>482,256.00</u>	<u>0.00</u>	<u>62 035 925.00</u>	<u>0.00</u>
Total			8,746,296					560,827.00	1,088,148,547.40	252 076 088.00	2 281 751 017 658.70
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Grand Total			10,473,074					594,484.00	1 217 974 378.20	344,854,580	3,162,495,540,557.43