



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 23-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Mar 2019	CAHF	Future	10,000	140.6900	130.0100	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>
		<b>Total</b>	<b>10,000</b>					<b>0.00</b>	<b>0.00</b>	10 000.00	2 531 700.00
<b>Future</b>											
Nov 2018	DAEU	Future	37	15.7622	15.7243	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>
<b>Option</b>											
Dec 2018	DAEU	15.83 Put	32,000	278.7627	311.0421	0.0000	0.0000	32,000	0.00		
Aug 2019	DAEU	17.01 Put	31,200	1175.5471	1205.2086	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	294.1079	294.1462	0.0000	0.0000	0	0.00		
			<u>125,600</u>					<u>32,000.00</u>	<u>0.00</u>	<u>1 454 587.00</u>	<u>0.00</u>
		<b>Total</b>	<b>125,637</b>					<b>32,000.00</b>	<b>0.00</b>	2 255 986.00	11 967 156 360.40
<b>Future</b>											
Nov 2018	DAGB	Future	13	17.8204	17.7509	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	23	18.0153	17.9465	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	24	18.1911	18.0950	0.0000	0.0000	24	434,280.00		
			<u>60</u>					<u>24.00</u>	<u>434,280.00</u>	<u>54 001.00</u>	<u>889 934 296.60</u>
		<b>Total</b>	<b>60</b>					<b>24.00</b>	<b>434,280.00</b>	261 314.00	889 934 296.60
<b>Future</b>											
Nov 2018	DAUS	Future	0	13.8840	13.7820	0.0000	0.0000	20,000	277,680,000.00		
Nov 2018	DAUS	Future	368	13.8857	13.7802	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	13.8874	13.7819	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	1,917	13.8891	13.7836	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	500	13.9010	13.7953	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	13.9094	13.8037	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,205	13.9413	13.8357	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.9447	13.8391	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	13.9666	13.8613	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	8	13.9683	13.8630	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	13.9835	13.8783	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.9920	13.8869	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,838	13.9938	13.8887	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.0164	13.9112	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.0199	13.9147	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.0373	13.9320	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,841	14.0425	13.9372	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.0510	13.9457	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.0887	13.9833	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,753	14.0921	13.9867	0.0000	0.0000	161	2,253,356.00		
Apr 2019	DAUS	Future	55	14.0989	13.9936	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.1468	14.0414	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.2000	14.0944	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.2540	14.1476	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.3081	14.2009	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.3640	14.2560	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.4169	14.3081	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.4681	14.3585	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.5251	14.4149	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.5836	14.4725	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.6384	14.5265	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.6969	14.5841	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.7554	14.6418	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.8064	14.6920	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.8705	14.7552	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.9762	14.8594	0.0000	0.0000	0	0.00		
			<u>112,826</u>					<u>20,161.00</u>	<u>279,933,356.00</u>	<u>10 901 643.00</u>	<u>133 810 271 045.40</u>
<b>Option</b>											
Nov 2018	DAUS	14.76 Call	4,000	2.1295	2.7472	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.00 Put	500	1.8635	3.0861	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.80 Put	1,000	94.2887	150.3594	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.85 Put	600	113.8368	179.7558	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.08 Call	500	63.5669	49.0622	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	421	392.2503	491.3389	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.30 Call	600	25.2330	20.2984	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.80 Call	600	3.3347	3.4906	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.82 Call	250	3.1322	3.2997	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	0.0132	0.0330	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	0.1041	0.1808	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.45 Put	23,000	1554.1349	1659.7736	0.0000	0.0000	0	0.00		

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Dec 2018	DAUS	13.75 Put	65,000	112.1554	164.4940	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	179.3734	249.8079	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	459.1588	554.1223	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	1010.1859	1114.7769	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1403.7556	1509.2675	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.50 Put	25,000	44.8020	73.8886	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	125	117.9795	172.4716	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	122.3255	100.0894	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	36.7215	31.3736	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	99.5303	147.7784	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	187.0184	253.5927	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	11.3761	10.1092	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	2.7188	2.6935	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	252.6810	322.0056	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	298.1039	372.2627	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	514.3364	603.5421	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	1021.1689	1122.9937	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1397.2319	1501.5382	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	38.3031	58.5724	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	54.1241	80.1599	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	74.5079	67.1550	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	62.9156	57.0332	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	30.4788	43.0272	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	236.3448	296.3585	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	204.0649	182.0561	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	503.7989	588.5320	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	1083.3897	1183.7242	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	2.2620	2.5971	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	2.0285	2.3081	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	152.4599	0.0000	0.0000	0.0000	600	0.00
Jan 2019	DAUS	13.93 Call	600	326.2778	0.0000	0.0000	0.0000	600	0.00
Jan 2019	DAUS	14.35 Call	600	180.1592	0.0000	0.0000	0.0000	600	0.00
Jan 2019	DAUS	13.64 Put	250	186.6683	237.0538	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	265.6919	238.3888	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	128.0227	116.4427	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	16.9905	26.4204	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	66.1742	87.9208	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	538.7183	616.2695	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	571.6131	650.8082	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	274.7409	252.7582	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	122.6696	114.3972	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	85.0646	79.2754	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	13.00 Put	500	102.5914	128.6748	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	592.0242	667.2492	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	623.8780	700.5824	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	330.3789	308.8424	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	174.6964	165.1046	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	128.8187	121.8572	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	521.6233	586.7329	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	138.6021	166.6275	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	642.0598	714.0037	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	673.1621	746.4694	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	380.5439	358.3046	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	222.9842	211.4316	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	172.5516	163.6634	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	173.9207	203.0867	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	984.9368	926.2813	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	685.5364	754.6500	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	715.9864	786.3815	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	423.2425	401.1971	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	266.5290	252.9373	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	214.5587	204.1274	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	206.0540	235.9492	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	723.2850	790.2807	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	753.2457	821.4423	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	460.3664	438.3432	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	303.3048	289.1480	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	249.3492	238.1107	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1078.9456	1155.7993	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	175.0461	169.8511	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	231.9976	262.9642	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	754.4170	820.1499	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	784.0458	850.9141	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	491.3783	469.2412	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	335.0180	319.8315	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	281.0927	268.7751	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	385.6605	428.7387	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	274.3470	262.4981	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	260.1373	292.0286	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	786.2433	851.0892	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	815.6718	881.4531	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	528.3314	506.0828	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	371.6471	355.8155	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	317.7943	304.6946	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	14.48 Put	3,147	967.3537	1037.3572	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,147	363.6044	348.4971	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	284.8215	317.2537	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.20 Put	250	812.8883	876.9805	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	842.1575	907.3082	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	554.6744	532.3695	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	399.4408	383.5318	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	345.2205	331.8001	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	173.6804	165.5577	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	307.6243	340.5660	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	835.9922	899.4918	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	865.0821	929.5730	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	584.5292	562.2478	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	429.3221	413.3749	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	372.8464	359.4857	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	326.4970	362.8501	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	857.7386	921.2419	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	886.6305	951.1095	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	607.6226	585.0225	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	454.5807	438.7131	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	399.1961	386.0071	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	342.4717	381.8585	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	877.2944	940.5821	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	906.0179	970.2811	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	632.2180	609.4819	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	480.5571	464.6319	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	426.0595	412.5543	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	359.9554	401.0154	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	898.9790	961.7994	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	927.5720	991.3510	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	662.1785	639.5542	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	514.1104	498.0009	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	460.2288	448.6398	0.0000	0.0000	0	0.00		
			<u>704,953</u>					<u>1,800.00</u>	<u>0.00</u>	<u>21 944 683.00</u>	<u>0.00</u>
<b>Total</b>			<b>817,779</b>					<b>21,961.00</b>	<b>279,933,356.00</b>	<b>32 846 326.00</b>	<b>133 810 271 045.40</b>
<b>Future</b>											
Dec 2018	EUUS	Future	50	1.1361	1.1420	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>
<b>Total</b>			<b>50</b>					<b>0.00</b>	<b>0.00</b>	<b>744 705.00</b>	<b>8 448 109 050.00</b>

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Dec 2018	GBUS	Future	250	1.2838	1.2886	0.0000	0.0000	0	0.00		
			250					0.00	0.00	170 234.00	2 190 585 942.00
		<b>Total</b>	<b>250</b>					<b>0.00</b>	<b>0.00</b>	170 234.00	2 190 585 942.00
<b>Future</b>											
Dec 2018	ZAAD	Future	23,926	10.0660	10.0009	0.0000	0.0000	0	0.00		
Mar 2019	ZAAD	Future	324	10.1983	10.1328	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,934	10.3246	10.2592	0.0000	0.0000	0	0.00		
			29,184					0.00	0.00	3 765 847.00	32 861 711 896.60
		<b>Total</b>	<b>29,184</b>					<b>0.00</b>	<b>0.00</b>	3 798 224.00	32 861 711 896.60
<b>Future</b>											
Dec 2018	ZACA	Future	700	10.5074	10.4422	0.0000	0.0000	0	0.00		
Mar 2019	ZACA	Future	250	10.6499	10.5851	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	10.7947	10.7287	0.0000	0.0000	0	0.00		
			1,200					0.00	0.00	140 963.00	1 391 359 940.10
		<b>Total</b>	<b>1,200</b>					<b>0.00</b>	<b>0.00</b>	140 963.00	1 391 359 940.10
<b>Future</b>											
Dec 2018	ZADK	Future	140	2.1245	2.1194	0.0000	0.0000	0	0.00		
			140					0.00	0.00	12 435.00	267 991 609.00
		<b>Total</b>	<b>140</b>					<b>0.00</b>	<b>0.00</b>	12 435.00	267 991 609.00
<b>Future</b>											
Dec 2018	ZAEU	Future	110,930	15.8058	15.7677	15.8423	15.7500	10,199	161,534,292.90		
Mar 2019	ZAEU	Future	36,703	16.1296	16.0929	0.0000	0.0000	286	4,606,315.60		
Jun 2019	ZAEU	Future	4,675	16.4312	16.3949	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	9,050	16.7650	16.7267	0.0000	0.0000	0	0.00		
			161,358					10,485.00	166,140,608.50	15 701 171.00	225 995 486 703.50
<b>Option</b>											
Mar 2019	ZAEU	15.60 Put	462	317.4628	339.6991	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	634.3826	626.0097	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	1439.8740	1478.6070	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	43.3151	44.0822	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	514.8583	512.0581	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	99.3685	103.1569	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	688.1014	710.7599	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	436.1183	434.6663	0.0000	0.0000	0	0.00		
			108,486					0.00	0.00	10 956 414.00	0.00
		<b>Total</b>	<b>269,844</b>					<b>10,485.00</b>	<b>166,140,608.50</b>	26 657 585.00	225 995 486 703.50

<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>	
<b>Future</b>											
Dec 2018	ZAFR	Future	1,366	13.9708	13.9008	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	14.5542	14.4849	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>
		<b>Total</b>	<b>1,516</b>					<b>0.00</b>	<b>0.00</b>	<b>621 158.00</b>	<b>6 676 179 862.80</b>
<b>Future</b>											
Dec 2018	ZAGB	Future	423,560	17.8612	17.7917	0.0000	0.0000	600	10,861,380.00		
Mar 2019	ZAGB	Future	11,650	18.1572	18.0885	18.1500	18.1000	357	6,463,745.00		
Jun 2019	ZAGB	Future	5,301	18.4334	18.3645	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	9,895	18.7360	18.6640	0.0000	0.0000	0	0.00		
			<u>450,406</u>					<u>957.00</u>	<u>17,325,125.00</u>	<u>12 929 828.00</u>	<u>220 153 191 373.60</u>
		<b>Total</b>	<b>450,406</b>					<b>957.00</b>	<b>17,325,125.00</b>	<b>12 929 828.00</b>	<b>220 153 191 373.60</b>
<b>Option</b>											
Dec 2018	ZAGB	19.30 Call	200	20.9807	21.6324	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	600.0522	646.0169	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1358.5826	1423.8952	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	179.1108	179.3038	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	155.7168	156.3885	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	57.4851	59.1827	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>
		<b>Total</b>	<b>454,606</b>					<b>957.00</b>	<b>17,325,125.00</b>	<b>14 708 941.00</b>	<b>220 153 191 373.60</b>
<b>Future</b>											
Dec 2018	ZAJY	Future	6,905	0.1235	0.1224	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>
		<b>Total</b>	<b>6,905</b>					<b>0.00</b>	<b>0.00</b>	<b>1 021 902.00</b>	<b>11 470 576 312.50</b>
<b>Future</b>											
Jun 2019	ZAKS	Future	2,166	0.1347	0.1341	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>
		<b>Total</b>	<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	<b>38 066.00</b>	<b>515 662 000.00</b>
<b>Future</b>											
Dec 2018	ZAUM	Future	429	13.9127	13.8071	0.0000	0.0000	10	13,900,000.00		
Mar 2019	ZAUM	Future	10	14.0733	13.9679	0.0000	0.0000	0	0.00		
			<u>439</u>					<u>10.00</u>	<u>13,900,000.00</u>	<u>153 956.00</u>	<u>178 213 697 080.00</u>
		<b>Total</b>	<b>439</b>					<b>10.00</b>	<b>13,900,000.00</b>	<b>158 479.00</b>	<b>178 213 697 080.00</b>
<b>Future</b>											
Dec 2018	ZAUS	Future	771,939	13.9127	13.8071	13.9512	13.7807	94,348	1,305,811,177.80		
Mar 2019	ZAUS	Future	66,239	14.0733	13.9679	14.0781	13.9787	6,479	91,143,332.50		

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Jun 2019	ZAUS	Future	18,716	14.2244	14.1185	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	Future	14,099	14.3887	14.2803	14.3709	14.3709	10	143,709.00
Dec 2019	ZAUS	Future	9,600	14.5459	14.4353	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	Future	3,966	14.7233	14.6102	0.0000	0.0000	0	0.00
			<u>884,559</u>					<u>100,837.00</u>	<u>1,397,098,219.30</u>
									<u>189 961 592.00</u>
									<u>2 280 662 869 111.30</u>

**Option**

Dec 2018	ZAUS	11.64 Put	2,764	0.2277	0.3120	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.3327	0.4577	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.5551	0.7672	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.7783	1.0784	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.8324	1.1540	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	1.0881	1.5108	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	1.5170	2.1093	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	1.7891	2.4888	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	2.7370	3.8093	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1416.7311	1312.3540	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	4.0311	5.2540	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	5.4352	7.3603	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	6.1098	8.3893	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	7.2121	10.0871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	11.7456	17.1871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	926.0116	826.7618	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	13.3116	19.6618	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	15.1061	22.5026	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	17.1647	25.7631	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	734.9708	646.2190	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	24.3872	42.3288	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	690.5541	604.6086	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	27.8541	47.5086	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	37.4275	61.4045	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	38.9777	63.6068	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	524.2649	451.7051	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	61.5649	94.6051	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	486.0450	417.2487	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	73.3450	110.1487	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	101.5365	146.1439	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	128.8171	179.7772	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	136.3186	188.8634	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	156.2868	212.7627	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	173.5180	233.0932	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	290.7015	245.4420	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	178.0015	238.3420	0.0000	0.0000	0	0.00



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Dec 2018	ZAUS	13.90 Put	35,000	226.6711	296.7045	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	217.5000	185.3171	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	197.2908	168.2880	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	284.5908	361.1880	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	348.8792	431.1941	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	362.4466	445.8035	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	152.0141	130.2794	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	235,564	383.2160	468.0714	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	390.2490	475.5862	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	131.6053	113.1910	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	418.9053	506.0910	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	448.3717	537.2751	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	118.5603	102.2728	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	493.9956	585.2419	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	100.1072	86.8249	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	517.4072	609.7249	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	95.9256	83.3224	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	533.2256	626.2224	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	565.3435	659.6140	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	86.1700	75.1417	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	79.0411	69.1568	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	69.3826	61.0289	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	656.6826	753.9289	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	665.1865	762.5698	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	55.7390	48.6325	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	743.0390	841.5325	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	54.4370	47.5297	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	53.1573	46.4509	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	804.4635	904.2880	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	43.8719	38.6030	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	867.1122	968.0621	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	38.8529	34.3478	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	876.1529	977.2478	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	34.3722	30.5381	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	921.6722	1023.4381	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	32.7188	29.1291	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	31.1401	27.7821	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	30.3781	27.1307	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	1014.1229	1116.9879	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	20.8605	18.9539	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	1108.1605	1211.8539	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	20.3389	18.5026	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.09 Call	500	16.5947	15.2495	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	16.1759	14.8844	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	14.2310	13.1818	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	12.5132	11.6729	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1299.8132	1404.5729	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1348.2970	1453.4020	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1396.9619	1502.3547	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	8.3123	8.1709	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	6.8684	6.7876	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	6.5859	6.5156	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	6.3160	6.2554	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1593.6160	1699.1554	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	6.1855	6.1295	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	5.2422	5.2153	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	5.1357	5.1119	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	5.0318	5.0107	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	4.1929	4.1914	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	3.9487	3.9517	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1930.4788	2036.0931	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	3.1175	3.1325	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	2.7765	2.7945	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	2.3406	2.3605	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	1.9090	1.9285	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	1.8074	1.8266	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	1.6221	1.6402	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	1.5107	1.5279	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.8771	0.9013	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.7146	0.9405	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.7443	0.9810	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.2492	2.5866	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	16.6550	19.2254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	49.7427	61.1139	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	52.6952	64.8662	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	104.3294	128.7143	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	108.1697	133.1676	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	124.5612	152.0638	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	135.6643	164.7784	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	152.3597	183.7848	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	159.9357	192.3698	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	187.0601	222.9184	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	210.8895	250.3138	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	220.5358	261.5940	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	13.40 Put	2,100	234.4338	277.1031	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	256.2737	301.3595	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	271.4963	318.1913	0.0000	0.0000	2,000	0.00
Mar 2019	ZAUS	13.55 Put	10,000	291.2672	339.9727	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	9,570	311.8643	362.5751	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	346.5318	400.4204	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	355.5282	410.2001	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	364.6519	420.1099	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	378.5822	435.2114	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	397.6055	455.7823	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	427.1026	487.5683	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	432.1308	492.9735	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	452.5517	514.8935	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	17,406	505.7791	571.7717	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	527.9190	595.7833	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	496.6261	464.1545	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	623.3261	696.2545	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	673.7988	749.0212	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	459.9883	430.3623	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	719.3654	796.4958	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	766.1824	845.1354	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	779.7810	859.2381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	786.6198	866.3248	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	400.5711	375.6152	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	394.4602	369.9873	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	821.1602	902.0873	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	842.1643	923.8041	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	863.3778	945.7116	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	928.2116	1012.5409	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	994.7660	1080.9182	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	313.4246	0.0000	0.0000	0.0000	2,000	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1047.7542	1135.0959	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1055.4056	1142.9053	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1063.0728	1150.7348	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1070.7587	1158.5787	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	269.4631	254.2432	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1228.1926	1318.9107	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1276.7106	1368.1986	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1293.0052	1384.7423	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1301.1751	1393.0337	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	237.3045	224.2406	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1350.5047	1443.0743	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	15.20 Put	2,500	1358.7761	1451.4596	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	228.6635	216.1715	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1459.1035	1553.0826	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	200.3209	189.6843	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	193.1578	182.5756	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	191.6692	181.1876	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	185.8392	175.7462	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	182.9949	173.0908	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	180.1966	170.4803	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	164.3354	155.6651	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	146.5819	139.0648	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	144.3759	137.0022	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	137.9714	131.0061	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	128.9391	122.5450	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	127.0208	120.7469	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	115.2913	109.7489	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	101.7253	97.0093	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	95.9664	91.5941	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	83.1109	79.4881	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	81.9365	78.3807	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	64.4893	62.0279	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	64.1201	61.6646	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	62.3138	59.8911	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	60.2364	57.8507	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	59.8997	57.5190	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	59.5656	57.1909	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	55.4394	53.1342	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	53.3800	51.1078	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	48.0512	45.8623	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	37.6541	35.6133	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	29.2875	26.9247	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.1307	8.2232	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	80.4828	92.0691	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	158.3877	182.0639	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	213.8344	243.9968	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	219.2528	249.9568	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	291.4835	328.8935	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	537.4929	593.5307	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	562.9318	620.3807	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	860.0091	814.3238	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	678.9311	644.1631	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	623.1678	591.8057	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	14.63 Put	8,203	1012.3323	1087.8838	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	548.3333	521.6137	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,000	473.9458	451.9564	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	364.6325	348.4597	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	331.8376	317.2387	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	311.7997	298.1503	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	299.1935	286.1408	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	132.1504	127.2565	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	13.4956	14.1598	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	151.2107	175.5464	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	665.3951	722.9966	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	697.1061	756.0242	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	762.6613	824.1541	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	790.7990	853.3337	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	830.9875	894.9592	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	901.9820	968.1484	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	1147.6577	1220.6115	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1615.4350	1698.7569	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1752.9106	1838.4772	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	516.1692	495.6059	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	308.4248	299.2112	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	274.3243	268.1096	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	259.9400	254.3457	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	254.8181	249.4427	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	233.9642	229.4567	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	224.7434	220.6129	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	217.1487	211.7061	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	215.3334	207.8387	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	160.1546	153.4441	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	72.1197	88.3516	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	609.7741	659.6255	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	436.3095	423.0909	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	208.2236	199.3940	0.0000	0.0000	0	0.00		
			<u>8,174,520</u>					<u>4,000.00</u>	<u>0.00</u>	<u>61 553 669.00</u>	<u>0.00</u>
	<b>Total</b>		<b>9,059,079</b>					<b>104,837.00</b>	<b>1,397,098,219.30</b>	<b>251 515 261.00</b>	<b>2 280 662 869 111.30</b>
	<b>Grand Total</b>		<b>10,778,855</b>					<b>170,274.00</b>	<b>1 874 831 588.80</b>	<b>344,260,096</b>	<b>3,161,277,566,179.23</b>