



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 17-August-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Oct 2018	CC01	Future	25,000	538.8079	551.6871	0.0000	0.0000	0	0.00		
			<u>25,000</u>					<u>0.00</u>	<u>0.00</u>	<u>25 000.00</u>	<u>7 830 750.00</u>
		Total	25,000					0.00	0.00	25 000.00	7 830 750.00
Future											
Nov 2018	CX05	Future	0	805.4407	758.1414	0.0000	0.0000	50,000	35,056,000.00		
			<u>0</u>					<u>50,000.00</u>	<u>35,056,000.00</u>	<u>75 000.00</u>	<u>39 505 500.00</u>
		Total	0					50,000.00	35,056,000.00	75 000.00	39 505 500.00
Future											
Sep 2018	DAEU	Future	34	16.9143	16.6888	0.0000	0.0000	0	0.00		
			<u>34</u>					<u>0.00</u>	<u>0.00</u>	<u>801 260.00</u>	<u>11 964 751 196.80</u>
Option											
Aug 2019	DAEU	16.03 Put	31,200	434.0969	455.4713	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	16.24 Put	31,200	494.8412	523.5972	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	1030.6935	900.5055	0.0000	0.0000	0	0.00		
			<u>124,800</u>					<u>0.00</u>	<u>0.00</u>	<u>1 143 987.00</u>	<u>0.00</u>
		Total	124,834					0.00	0.00	1 945 247.00	11 964 751 196.80
Future											
Sep 2018	DAGB	Future	14	18.9386	18.7008	0.0000	0.0000	0	0.00		
Oct 2018	DAGB	Future	2	18.9963	18.7570	0.0000	0.0000	0	0.00		
			<u>16</u>					<u>0.00</u>	<u>0.00</u>	<u>53 771.00</u>	<u>882 235 826.30</u>
		Total	16					0.00	0.00	261 084.00	882 235 826.30
Future											
Aug 2018	DAUS	Future	600	14.7770	14.6105	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	Future	3,299	14.7950	14.6257	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	Future	197	14.8011	14.6315	0.0000	0.0000	0	0.00		

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Sep 2018	DAUS	Future	4,032	14.8514	14.6794	0.0000	0.0000	1,500	22,480,500.00
Oct 2018	DAUS	Future	55	14.8593	14.6871	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	235	14.8891	14.7161	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	70	14.9050	14.7315	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	225	14.9128	14.7393	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	3,808	14.9168	14.7432	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	55	14.9188	14.7451	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	70	14.9424	14.7685	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	420	14.9483	14.7743	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	461	14.9740	14.7995	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	7,004	14.9759	14.8015	0.0000	0.0000	3,500	52,880,750.00
Dec 2018	DAUS	Future	2,387	15.0373	14.8615	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	15.0412	14.8654	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	15.0966	14.9196	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,225	15.0986	14.9215	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	15.1243	14.9467	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	4,725	15.1544	14.9760	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	4,414	15.2093	15.0293	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	15.2215	15.0411	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,280	15.2784	15.0963	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	55	15.3418	15.1578	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	15.4059	15.2200	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	15.4700	15.2823	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	15.5392	15.3479	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.6089	15.4113	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.6762	15.4726	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	15.7505	15.5402	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.8224	15.6057	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.8898	15.6670	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	15.9617	15.7326	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	16.0337	15.7981	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	16.0964	15.8552	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	16.1753	15.9270	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	16.3053	16.0454	0.0000	0.0000	0	0.00
			<u>120,512</u>					<u>5,000.00</u>	<u>75,361,250.00</u>
									<u>10 538 784.00</u>
									<u>128 580 924 299.60</u>
Option									
Aug 2018	DAUS	13.21 Put	50,000	2.7074	2.3806	0.0000	0.0000	0	0.00
Aug 2018	DAUS	14.20 Put	0	33.4204	61.0625	0.0000	0.0000	20,000	0.00
Aug 2018	DAUS	14.50 Put	20,000	107.0092	0.0000	0.0000	0.0000	20,000	0.00
Aug 2018	DAUS	14.57 Call	2,500	411.1802	311.2631	0.0000	0.0000	0	0.00
Aug 2018	DAUS	14.59 Call	2,500	399.8762	301.8109	0.0000	0.0000	0	0.00
Aug 2018	DAUS	14.74 Call	2,500	322.3738	0.0000	0.0000	0.0000	2,500	0.00

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Aug 2018	DAUS	14.74 Put	7,500	269.3738	0.0000	0.0000	0.0000	7,500	0.00
Aug 2018	DAUS	13.00 Put	500	3.6523	3.6720	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.65 Call	500	1163.4220	997.6480	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.80 Put	1,000	26.0650	32.5921	0.0000	0.0000	0	0.00
Aug 2018	DAUS	14.25 Put	250	88.2039	127.6740	0.0000	0.0000	0	0.00
Aug 2018	DAUS	14.42 Call	250	514.9004	399.3812	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.05 Call	500	44.6684	27.7092	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.57 Call	500	18.4500	10.9782	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.43 Put	10,000	15.0644	16.6231	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.44 Put	15,000	15.4880	17.1412	0.0000	0.0000	0	0.00
Sep 2018	DAUS	12.90 Put	100	4.7961	4.0098	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.09 Put	600	7.0315	6.2949	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.32 Call	600	1500.6427	1331.3812	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.45 Call	100	1375.9161	1207.7296	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Call	100	1051.6644	889.9518	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.90 Call	600	963.3614	804.8394	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.30 Put	747	11.8495	13.2973	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.00 Put	500	21.2841	20.3169	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.78 Call	500	1165.3648	1004.6508	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Put	1,000	97.8298	109.6013	0.0000	0.0000	0	0.00
Sep 2018	DAUS	14.25 Put	250	220.2822	250.9636	0.0000	0.0000	0	0.00
Sep 2018	DAUS	14.54 Call	250	651.5829	524.5317	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.25 Call	500	154.0644	107.0012	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.80 Call	500	96.0874	63.0207	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	58.8515	59.9825	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	1106.4383	953.1877	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	53.0123	53.7935	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	172.6895	188.5753	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	1194.6886	1040.2008	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	316.3097	349.4132	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	757.0355	632.9559	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	244.5438	186.5371	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	173.7405	129.3035	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	10.7470	10.2535	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	197.9292	215.4258	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	212.0398	161.2043	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	5.1396	4.4451	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	10.1911	8.9210	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1819.4531	1648.0788	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	804.8579	681.7551	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	795.6337	673.2614	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	729.5591	0.0000	0.0000	0.0000	5,000	0.00

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Nov 2018	DAUS	14.89 Put	15,000	671.2591	0.0000	0.0000	0.0000	15,000	0.00
Nov 2018	DAUS	14.84 Call	10,000	761.8962	0.0000	0.0000	0.0000	20,000	0.00
Nov 2018	DAUS	13.00 Put	500	76.5854	79.0414	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	224.3126	242.2338	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	1209.2903	1060.1019	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	376.8311	411.4602	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	813.4837	692.7152	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	301.8432	239.8327	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	220.9088	172.3367	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	197.4613	213.4806	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	256.5175	276.7582	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	746.3907	633.7230	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	545.3634	454.2138	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	117.6738	124.6249	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	134.3224	142.5726	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	962.8639	835.3268	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	921.1334	796.4064	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	92.4967	99.5633	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	262.9757	283.6413	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	1227.3703	1085.0419	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	422.1135	457.2109	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	785.1948	842.2056	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	346.1624	281.2919	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	260.1102	207.4847	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	59.0318	65.3211	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	106.2550	119.6953	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	465.1762	499.7927	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	1240.1684	1103.6661	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	899.7901	782.0369	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	118.9736	130.3816	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	498.4533	531.9846	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	1256.6090	1122.1661	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	934.5752	817.3582	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	128.7862	147.6850	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	527.0531	561.8720	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	1270.8960	1139.0423	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	961.3918	845.9727	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	142.2409	164.9370	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	2062.0035	1908.3009	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	555.0569	590.2545	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	1284.2044	1155.1401	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	986.7182	872.8103	0.0000	0.0000	0	0.00

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May 2019	DAUS	13.00 Put	500	156.7577	179.5687	0.0000	0.0000	0	0.00		
May 2019	DAUS	14.25 Put	250	581.1017	617.1746	0.0000	0.0000	0	0.00		
May 2019	DAUS	15.01 Call	500	1299.6509	1172.2251	0.0000	0.0000	0	0.00		
May 2019	DAUS	15.79 Call	250	1011.4899	898.8225	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	13.00 Put	500	164.9526	193.2371	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	14.25 Put	250	601.7491	638.7359	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.17 Call	500	1311.5316	1185.5086	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.96 Call	250	1030.5989	918.9556	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.45 Put	39,250	294.8486	328.4812	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.44 Call	39,250	905.7523	804.0877	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	178.3188	210.6655	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	624.1487	662.5751	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	1333.8851	1207.0802	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	1058.7383	947.5811	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,950	737.0352	779.6140	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,950	1029.1824	921.2489	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	197.9044	226.4708	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	643.9360	683.8709	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	1349.2454	1221.5785	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	1080.9825	970.0725	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	217.2526	240.9401	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	663.8578	704.1502	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	1381.3248	1249.7612	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	1117.6040	1003.7365	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	235.1021	257.7785	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	682.2926	723.9115	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	1403.1027	1268.8642	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	1146.5167	1029.8619	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	251.8207	275.5721	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	698.6507	740.3328	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	1429.7044	1292.4993	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	1177.5097	1057.7960	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	269.1164	291.7861	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	716.0094	757.2892	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	1456.9948	1316.3904	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	1212.1735	1088.9405	0.0000	0.0000	0	0.00		
			<u>500,910</u>					<u>90,000.00</u>	<u>0.00</u>	<u>19 931 427.00</u>	<u>0.00</u>
		Total	621,422					95,000.00	75,361,250.00	30 470 211.00	128 580 924 299.60

Option

Aug 2018	DAYJ	8.27 Call	13,000	12.6141	19.5726	0.0000	0.0000	0	0.00
Aug 2018	DAYJ	8.35 Call	20,000	7.7747	15.7893	0.0000	0.0000	0	0.00

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Sep 2018	DAYJ	8.26 Call	25,000	53.1945	70.1765	0.0000	0.0000	0	0.00		
			<u>58,000</u>					0.00	0.00	50 000.00	0.00
		Total	58,000					0.00	0.00	50 000.00	0.00
Future											
Sep 2018	EUUS	Future	240	1.1430	1.1408	1.1420	1.1420	5	57,100.00		
			<u>240</u>					5.00	57,100.00	729 629.00	8 272 496 827.00
		Total	240					5.00	57,100.00	729 629.00	8 272 496 827.00
Future											
Sep 2018	GBUS	Future	20	1.2746	1.2733	1.2746	1.2746	6	76,476.00		
			<u>20</u>					6.00	76,476.00	167 359.00	2 153 052 487.00
		Total	20					6.00	76,476.00	167 359.00	2 153 052 487.00
Future											
Sep 2018	ZAAD	Future	11,333	10.7989	10.6680	10.9431	10.8347	23	250,122.30		
Dec 2018	ZAAD	Future	11,820	10.9289	10.7958	0.0000	0.0000	0	0.00		
Mar 2019	ZAAD	Future	510	11.0743	10.9379	10.9850	10.9850	5	54,925.00		
Jun 2019	ZAAD	Future	4,929	11.2178	11.0771	0.0000	0.0000	0	0.00		
			<u>28,592</u>					28.00	305,047.30	3 689 264.00	32 046 997 718.50
		Total	28,592					28.00	305,047.30	3 721 641.00	32 046 997 718.50
Future											
Dec 2018	ZACA	Future	590	11.4792	11.3056	0.0000	0.0000	0	0.00		
			<u>590</u>					0.00	0.00	137 623.00	1 354 709 052.10
		Total	590					0.00	0.00	137 623.00	1 354 709 052.10
Future											
Sep 2018	ZADK	Future	245	2.2802	2.2505	0.0000	0.0000	0	0.00		
Dec 2018	ZADK	Future	235	2.3253	2.2948	0.0000	0.0000	0	0.00		
			<u>480</u>					0.00	0.00	12 085.00	259 978 669.00
		Total	480					0.00	0.00	12 085.00	259 978 669.00
Future											
Sep 2018	ZAEU	Future	97,805	16.9500	16.7226	17.1649	16.7841	408	6,949,155.30		
Dec 2018	ZAEU	Future	37,473	17.2675	17.0337	17.3600	17.3600	580	9,832,968.00		
Mar 2019	ZAEU	Future	4,711	17.6274	17.3869	17.7550	17.5850	10	176,700.00		
Jun 2019	ZAEU	Future	5,256	17.9746	17.7260	0.0000	0.0000	0	0.00		
			<u>145,245</u>					998.00	16,958,823.30	15 230 026.00	217 846 452 023.40
Option											
Sep 2018	ZAEU	13.50 Put	29,734	2.6616	2.0831	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Sep 2018	ZAEU	14.25 Put	57,090	5.4685	4.2858	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	15.85 Put	86,824	77.0277	99.0780	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	16.76 Call	29,734	564.6135	420.5393	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	19.56 Call	86,824	40.5725	21.2438	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	16.00 Call	650	1994.0919	1783.7759	0.0000	0.0000	0	0.00	
			290,856					0.00	0.00	8 025 012.00
		Total	436,101					998.00	16,958,823.30	23 255 038.00 217 846 452 023.40
Future										
Sep 2018	ZAFR	Future	1,975	14.9332	14.7673	0.0000	0.0000	0	0.00	
Dec 2018	ZAFR	Future	770	15.2271	15.0560	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	15.8842	15.7007	0.0000	0.0000	0	0.00	
			2,895					0.00	0.00	616 545.00 6 605 907 530.80
		Total	2,895					0.00	0.00	616 545.00 6 605 907 530.80
Future										
Sep 2018	ZAGB	Future	197,371	18.9013	18.6647	19.0250	18.8000	1,136	21,680,408.30	
Dec 2018	ZAGB	Future	21,281	19.1978	18.9555	19.3950	19.2300	15	289,400.00	
Mar 2019	ZAGB	Future	4,932	19.5328	19.2830	0.0000	0.0000	0	0.00	
Jun 2019	ZAGB	Future	6,156	19.8522	19.5943	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	4,645	20.2085	19.9387	0.0000	0.0000	0	0.00	
			234,385					1,151.00	21,969,808.30	11 991 500.00 201 978 300 024.20
Option										
Mar 2019	ZAGB	18.00 Put	500	509.4776	547.7998	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	633.3566	524.8318	0.0000	0.0000	0	0.00	
			1,000					0.00	0.00	1 775 113.00 0.00
		Total	235,385					1,151.00	21,969,808.30	13 766 613.00 201 978 300 024.20
Future										
Sep 2018	ZAJY	Future	6,873	0.1345	0.1326	0.0000	0.0000	0	0.00	
			6,873					0.00	0.00	1 001 040.00 11 183 195 529.30
		Total	6,873					0.00	0.00	1 001 040.00 11 183 195 529.30
Future										
Sep 2018	ZAKS	Future	562	0.1464	0.1448	0.0000	0.0000	0	0.00	
Jun 2019	ZAKS	Future	1,628	0.1439	0.1441	0.0000	0.0000	0	0.00	
			2,190					0.00	0.00	36 428.00 491 517 260.00
		Total	2,190					0.00	0.00	36 428.00 491 517 260.00
Future										
Sep 2018	ZATR	Future	5,270	2.3884	2.4841	0.0000	0.0000	0	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
			5,270					0.00	0.00	341 969.00	1 134 767 971.00
		Total	5,270					0.00	0.00	341 969.00	1 134 767 971.00
Future											
Sep 2018	ZAUM	Future	365	14.8294	14.6582	0.0000	0.0000	0	0.00		
Dec 2018	ZAUM	Future	70	15.0036	14.8286	0.0000	0.0000	0	0.00		
			435					0.00	0.00	152 321.00	175 805 361 770.00
		Total	435					0.00	0.00	156 844.00	175 805 361 770.00
Future											
Sep 2018	ZAUS	Future	524,085	14.8294	14.6582	15.0894	14.7019	160,176	2,381,389,172.80		
Dec 2018	ZAUS	Future	127,887	15.0036	14.8286	15.2350	14.9072	14,520	217,626,758.50		
Mar 2019	ZAUS	Future	8,610	15.1910	15.0115	15.3050	15.1550	15	228,325.00		
Jun 2019	ZAUS	Future	18,910	15.3708	15.1859	15.5035	15.4265	1,500	23,214,000.00		
Sep 2019	ZAUS	Future	10,138	15.5717	15.3775	0.0000	0.0000	103	1,589,722.60		
			689,630					176,314.00	2,624,047,978.90	181 351 878.00	2 152 936 129 155.40
Option											
Sep 2018	ZAUS	11.48 Put	5,200	1.0522	0.9977	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.50 Put	45,000	1.1015	1.0481	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.60 Put	2,000	1.3823	1.3386	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.75 Put	93,314	1.9323	1.8035	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.85 Put	48,200	2.4064	2.0267	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.90 Put	3,000	2.6806	2.1495	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.00 Put	13,300	3.0213	2.4205	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.25 Call	500	2583.4943	2411.4796	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.25 Put	40,000	4.0943	3.2796	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.30 Put	100	4.3550	3.4898	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.38 Put	60,000	4.8107	3.8584	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.50 Call	4,600	2334.9952	2162.6974	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.50 Put	44,000	5.5952	4.4974	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.58 Put	8,000	6.1960	4.9904	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.61 Put	13,231	6.4395	5.1909	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.65 Put	1,550	6.7807	5.4732	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.77 Call	5,200	2067.3310	1894.6316	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.80 Call	50	2037.6515	1864.9005	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.80 Put	500	8.2515	6.7005	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.85 Put	750	8.8183	7.1786	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	13.00 Call	7,500	1840.1983	1667.0694	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	13.00 Put	70,000	10.7983	8.8694	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	13.10 Put	2,500	12.3949	10.2561	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	13.20 Call	4,000	1643.6628	1470.1132	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	13.20 Put	4,500	14.2628	11.9132	0.0000	0.0000	0	0.00		

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Sep 2018	ZAUS	13.22 Put	10,000	14.6734	12.8450	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Call	1,250	1594.7146	1422.5534	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Put	74,064	15.3146	14.3534	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.30 Call	500	1545.8550	1375.3828	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.50 Call	2,000	1358.0339	1191.4516	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Call	26,000	1267.8643	1102.9590	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Put	4,000	38.4643	44.7590	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.65 Call	1,464	1223.6572	1059.7384	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.66 Call	100	1214.8908	1051.1825	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Call	60,000	934.1181	781.2705	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Put	1,500	104.7181	123.0705	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.20 Call	500	788.2819	645.2085	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.50 Call	500	600.9046	473.7843	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.70 Call	63,000	496.1859	381.7383	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.00 Call	4,000	369.5528	276.4544	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.00 Put	50	540.1528	618.2544	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.97 Call	5,300	140.2612	94.7361	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.04 Call	1,550	130.7148	87.6967	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.14 Call	750	118.2402	78.1941	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.29 Call	73,314	101.8324	65.0860	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.64 Put	2,764	12.0686	10.3848	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	13.0359	11.2831	0.0000	0.0000	2,168	0.00
Dec 2018	ZAUS	11.90 Put	11,300	14.4934	12.6604	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	15.5642	15.5866	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	16.1932	16.2356	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	18.9250	19.0616	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	22.8700	23.1616	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	25.0844	25.4706	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	31.6801	32.3767	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	2542.5662	2368.6433	0.0000	0.0000	2,168	0.00
Dec 2018	ZAUS	12.50 Put	26,500	38.9662	40.0433	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	48.3311	49.9436	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	52.3807	54.2370	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	58.5003	60.7372	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	79.1420	82.7479	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	7,000	2088.6962	1917.7178	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	146,370	85.0962	89.1178	0.0000	0.0000	18,900	0.00
Dec 2018	ZAUS	13.10 Put	11,300	98.0397	102.9848	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1916.0414	1747.0443	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	115.5056	121.7370	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1873.8180	1705.4030	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	23,300	120.2180	126.8030	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.32 Put	13,650	131.7788	139.2411	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	133.4944	0.0000	0.0000	0.0000	270,000	0.00
Dec 2018	ZAUS	13.45 Call	500	1709.0254	1545.6818	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	155.4254	167.0818	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1668.9070	1507.6349	0.0000	0.0000	2,168	0.00
Dec 2018	ZAUS	13.50 Put	29,800	165.3070	179.0349	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	189.0971	204.6543	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	215.0869	232.6084	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.71 Put	30	217.8085	235.5336	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	228.9213	247.4768	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	1461.0974	1305.2879	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	240.4011	259.8058	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	1446.9276	1291.5507	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	400	243.3276	262.9507	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	1343.6106	1191.6275	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,700	1310.3410	1159.5500	0.0000	0.0000	10	0.00
Dec 2018	ZAUS	14.00 Put	14,500	306.7410	330.9500	0.0000	0.0000	900	0.00
Dec 2018	ZAUS	14.10 Put	1,867	341.9686	368.6565	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	1226.5976	1079.8873	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	360.4718	389.8402	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	364.2430	394.1593	0.0000	0.0000	18,900	0.00
Dec 2018	ZAUS	14.20 Put	13,650	379.5650	411.6866	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	395.2696	429.6361	0.0000	0.0000	24,570	0.00
Dec 2018	ZAUS	14.25 Put	700	399.2543	434.1879	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	1107.7456	970.1387	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	434.1456	471.5387	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	1096.7192	959.7313	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	443.1192	481.1313	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.38 Call	30	1080.3629	944.3110	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	1048.3191	914.1571	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	1,000	513.5574	0.0000	0.0000	0.0000	1,000	0.00
Dec 2018	ZAUS	14.60 Call	84,900	967.1360	838.0763	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	500	563.5360	609.4763	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	962.2648	833.5293	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	957.4171	829.0027	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	599.9244	648.1258	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	20,000	919.4680	793.6371	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	896.4936	772.2849	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	874.0856	751.4966	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	670.4856	722.8966	0.0000	0.0000	135,000	0.00
Dec 2018	ZAUS	14.84 Call	1,000	856.5551	735.2658	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	7,600	789.8900	673.8403	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.01 Call	10,000	785.8650	670.1776	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	754.4044	641.6157	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	750.5614	638.1333	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	731.6462	621.0201	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	909.6183	0.0000	0.0000	0.0000	150	0.00
Dec 2018	ZAUS	15.46 Call	1,867	624.8737	525.1848	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	618.5757	519.5727	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	609.2504	511.2781	0.0000	0.0000	24,570	0.00
Dec 2018	ZAUS	15.59 Call	31,047	585.1186	489.8510	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	579.2463	484.6698	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	11,380	553.6072	462.1713	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	545.3392	0.0000	0.0000	0.0000	270,000	0.00
Dec 2018	ZAUS	15.85 Call	20,300	513.8664	427.2476	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	498.9280	414.1277	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	50	477.4338	395.3065	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	446.0773	367.9738	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	364.9212	296.1604	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	8.7022	8.3495	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	19.6826	16.1752	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.06 Put	0	21.3822	20.5197	0.0000	0.0000	4,145	0.00
Mar 2019	ZAUS	12.47 Put	721	46.4921	53.8521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	50.5844	58.4613	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	104.8990	118.8888	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	123.4772	139.3324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.45 Call	0	1974.4296	1820.4039	0.0000	0.0000	12,435	0.00
Mar 2019	ZAUS	13.46 Put	20,000	236.3826	262.0858	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	329.9312	354.0319	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	366.6846	392.7552	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	380.6420	407.4419	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	416.9079	445.5707	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	528.8935	563.8900	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	500	1428.4769	1284.9551	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	599.7215	642.7180	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	1330.0227	1194.7381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	643.9692	689.3364	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	798.1529	0.0000	0.0000	0.0000	4,145	0.00
Mar 2019	ZAUS	14.96 Call	17,981	1109.1493	984.8974	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	1025.5073	904.6051	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	921.8532	808.0277	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	918.3555	804.7943	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	890.9216	779.4555	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	781.2885	0.0000	0.0000	0.0000	8,290	0.00

