



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 08-January-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Jan 2019	DAEU	Future	4,830	15.9538	15.9425	0.0000	0.0000	0	0.00		
Feb 2019	DAEU	Future	29	16.0771	16.0649	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	16.1275	16.1153	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	16.2347	16.2895	0.0000	0.0000	4	65,158.00		
			<u>4,916</u>					<u>4.00</u>	<u>65,158.00</u>	<u>811 219.00</u>	<u>12 127 142 593.00</u>
Option											
Aug 2019	DAEU	17.01 Put	16,200	1081.5707	1097.2187	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	221.3911	220.7231	0.0000	0.0000	0	0.00		
			<u>78,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 510 587.00</u>	<u>0.00</u>
Total			83,516					4.00	65,158.00	2 321 806.00	12 127 142 593.00
Future											
Jan 2019	DAGB	Future	4,112	17.7552	17.7567	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	27	17.7840	17.7854	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	17.8690	17.8694	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	17.9593	17.9603	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	18.0129	18.1135	0.0000	0.0000	43	778,880.50		
			<u>4,309</u>					<u>43.00</u>	<u>778,880.50</u>	<u>62 401.00</u>	<u>1 041 843 808.80</u>
Total			4,309					43.00	778,880.50	269 714.00	1 041 843 808.80
Future											
Jan 2019	DAUS	Future	125	13.9176	13.8709	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	174	13.9242	13.8786	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	20	13.9258	13.8801	0.0000	0.0000	12	167,850.00		
Jan 2019	DAUS	Future	1,901	13.9339	13.8880	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	13.9403	13.8942	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,018	13.9484	13.9021	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	2,002	13.9500	13.9037	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.9710	13.9243	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.9744	13.9276	0.0000	0.0000	0	0.00		

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Feb 2019	DAUS	Future	15	13.9915	13.9443	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,102	13.9966	13.9494	0.0000	0.0000	4	56,172.00		
Mar 2019	DAUS	Future	74	14.0035	13.9561	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.0052	13.9577	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.0437	13.9966	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	5,111	14.0472	14.0002	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.0543	14.0074	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	260	14.0773	14.1185	0.0000	0.0000	260	3,671,011.00		
Apr 2019	DAUS	Future	1,180	14.1040	14.0555	0.0000	0.0000	400	5,648,520.00		
May 2019	DAUS	Future	475	14.1592	14.1079	0.0000	0.0000	400	5,671,000.00		
Jun 2019	DAUS	Future	74	14.1663	14.1146	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	105	14.2090	14.1552	0.0000	0.0000	400	5,690,960.00		
Jul 2019	DAUS	Future	55	14.2144	14.1603	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.2709	14.2150	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.3298	14.2723	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.3335	14.2759	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3850	14.3261	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.4381	14.3818	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.4964	14.4446	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.5001	14.4485	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.5529	14.5054	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.6089	14.5673	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.6700	14.6353	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.7311	14.7032	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.7844	14.7624	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.8514	14.8369	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.9618	14.9596	0.0000	0.0000	0	0.00		
			<u>108,684</u>					<u>1,476.00</u>	<u>20,905,513.00</u>	<u>11 026 398.00</u>	<u>135 569 387 853.00</u>
Option											
Jan 2019	DAUS	13.86 Put	174	105.3291	135.9203	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.00 Call	174	99.3109	94.8562	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.29 Put	218	394.6910	441.4688	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.36 Call	218	20.7287	22.1504	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	12.66 Put	263	0.7382	1.4653	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.80 Put	25,000	107.7133	0.0000	0.0000	0.0000	25,000	0.00		
Jan 2019	DAUS	13.00 Put	500	14.9806	18.2324	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.80 Put	600	172.7861	199.3012	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.20 Call	600	152.3957	144.6721	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.20 Put	250	402.3957	440.9721	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.25 Put	250	438.0555	477.5949	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.38 Call	500	106.2527	101.5915	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.55 Call	600	74.8018	72.1132	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	15.13 Call	250	20.4077	20.2641	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	9.4058	9.6164	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	45.2949	54.0693	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	225.9660	249.3270	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	490.1285	525.3703	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	269.6148	258.4967	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	523.0148	559.0967	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	192.2884	184.9842	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	143.3681	138.2756	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	73.0016	70.8769	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	44.7717	43.5257	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	364.5593	393.1533	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	112.6319	109.3165	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	371.3771	398.2797	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	432.9917	462.1868	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	87.7892	97.8376	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	554.6639	588.1696	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	586.1346	620.4172	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	256.2349	248.9323	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	123.5521	121.0622	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	86.7596	85.4243	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	334.1410	358.5474	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	373.3903	361.9754	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	127.7382	138.8204	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	880.2968	851.4393	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	610.8900	643.5871	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	641.4271	674.8687	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	312.7901	305.0225	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	173.2395	169.9695	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	131.7816	129.7830	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	163.8199	176.0504	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	657.9754	690.3625	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	687.8469	720.9656	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	359.9019	350.8098	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	216.4277	211.6357	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	170.4942	167.2058	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1017.8018	1056.7886	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	113.7663	112.8784	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	193.9851	207.0632	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	694.2641	726.5208	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	723.6605	756.6164	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	395.2662	385.1827	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	15.96 Call	250	249.4520	243.8465	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	202.0337	197.8370	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	338.5267	357.3520	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	197.1623	192.7400	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	223.8690	237.3965	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	730.2995	762.4077	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	759.2692	792.0868	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	437.9431	426.8542	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	290.3792	282.9176	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	241.3566	235.7247	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	910.9384	946.3220	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	284.9597	278.2725	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	248.1187	262.5193	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	759.2052	790.3126	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	787.9936	819.7778	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	468.3805	456.5772	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	320.8471	313.2721	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	270.9925	264.6553	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	122.2545	119.1253	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	271.2880	285.7339	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	783.8007	815.6333	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	812.4572	844.8830	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	501.9609	489.2226	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	353.4726	344.7983	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	300.6868	293.8302	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	294.1001	308.1335	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	808.1557	837.4352	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	836.6606	866.4895	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	528.6809	516.3095	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	381.3833	372.6356	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	329.3129	321.9467	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	311.6818	326.9402	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	828.5622	855.2572	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	856.9126	884.0990	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	554.5372	543.0972	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	408.2997	400.1791	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	356.6663	349.7157	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	328.6075	342.5004	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	848.1685	872.1951	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	876.3263	900.7924	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	580.0021	569.6675	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.05 Call	250	437.2019	429.7098	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	17.44 Call	250	386.0751	380.4103	0.0000	0.0000	0	0.00		
			<u>355,641</u>					25,000.00	0.00	22 171 453.00	0.00
		Total	464,325					26,476.00	20,905,513.00	33 197 851.00	135 569 387 853.00
Future											
Mar 2019	EUUS	Future	25	1.1504	1.1534	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1591	1.1622	0.0000	0.0000	0	0.00		
			<u>607</u>					0.00	0.00	745 382.00	8 455 941 735.00
		Total	607					0.00	0.00	745 382.00	8 455 941 735.00
Future											
Mar 2019	GBUS	Future	400	1.2778	1.2822	1.2816	1.2816	5	64,080.00		
			<u>400</u>					5.00	64,080.00	171 217.00	2 202 983 633.00
		Total	400					5.00	64,080.00	171 217.00	2 202 983 633.00
Future											
Mar 2019	ZAAD	Future	7,365	10.0285	9.9898	10.0643	10.0643	1	10,064.30		
Jun 2019	ZAAD	Future	15,741	10.1537	10.1108	10.1909	10.1909	20	203,818.00		
Sep 2019	ZAAD	Future	650	10.2913	10.2437	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.4213	10.3783	0.0000	0.0000	0	0.00		
			<u>24,156</u>					21.00	213,882.30	3 845 849.00	33 691 964 036.90
Option											
Dec 2019	ZAAD	11.00 Call	1,000	363.1303	348.3055	0.0000	0.0000	0	0.00		
			<u>1,000</u>					0.00	0.00	34 377.00	0.00
		Total	25,156					21.00	213,882.30	3 880 226.00	33 691 964 036.90
Future											
Mar 2019	ZACA	Future	500	10.5754	10.4983	0.0000	0.0000	1,850	19,723,775.00		
Jun 2019	ZACA	Future	650	10.7123	10.6314	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	10.8604	10.7741	0.0000	0.0000	0	0.00		
			<u>1,400</u>					1,850.00	19,723,775.00	148 763.00	1 474 780 520.10
		Total	1,400					1,850.00	19,723,775.00	148 763.00	1 474 780 520.10
Future											
Mar 2019	ZAEU	Future	123,664	16.1378	16.1256	16.2842	16.2842	1	16,284.20		
Jun 2019	ZAEU	Future	24,300	16.4413	16.4231	16.5533	16.5533	150	2,480,715.00		
Sep 2019	ZAEU	Future	10,175	16.7758	16.7502	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	Future	277	17.0922	17.0736	0.0000	0.0000	0	0.00		
			<u>158,416</u>					151.00	2,496,999.20	16 034 696.00	231 423 914 148.50
Option											
Mar 2019	ZAEU	16.00 Call	650	516.1925	514.7044	0.0000	0.0000	0	0.00		

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Sep 2019	ZAEU	18.60 Call	55,000	435.1151	431.3689	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	72.7994	73.1269	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	618.7210	624.7636	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	364.9406	366.2561	0.0000	0.0000	0	0.00	
			<u>107,100</u>					<u>0.00</u>	<u>0.00</u>	<u>10 956 876.00</u>
	Total		265,516					151.00	2,496,999.20	26 991 572.00 231 423 914 148.50
Future										
Mar 2019	ZAFR	Future	1,043	14.3843	14.3684	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	14.6704	14.6494	0.0000	0.0000	0	0.00	
			<u>1,193</u>					<u>0.00</u>	<u>0.00</u>	<u>626 130.00</u>
	Total		1,193					0.00	0.00	6 748 085 054.60
Future										
Mar 2019	ZAGB	Future	397,071	17.9247	17.9250	18.0990	18.0380	4	72,455.00	
Jun 2019	ZAGB	Future	5,764	18.2014	18.1952	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	16,675	18.5028	18.4879	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	247	18.7847	18.7794	0.0000	0.0000	0	0.00	
			<u>419,757</u>					<u>4.00</u>	<u>72,455.00</u>	<u>13 788 759.00</u>
	Total									235 735 688 250.00
Option										
Mar 2019	ZAGB	18.00 Put	500	561.6629	569.7480	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	188.5863	195.2745	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	1421.5729	1427.2730	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	67.6254	70.9048	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	55.4918	58.0886	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	13.5392	13.7442	0.0000	0.0000	0	0.00	
			<u>6,500</u>					<u>0.00</u>	<u>0.00</u>	<u>1 783 113.00</u>
	Total		426,257					4.00	72,455.00	15 571 872.00 235 735 688 250.00
Future										
Jun 2019	ZAKS	Future	2,166	0.1362	0.1345	0.0000	0.0000	0	0.00	
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>
	Total		2,166					0.00	0.00	38 066.00 515 662 000.00
Future										
Sep 2019	ZANZ	Future	213	9.6887	9.7145	0.0000	0.0000	213	2,071,638.00	
			<u>213</u>					<u>213.00</u>	<u>2,071,638.00</u>	<u>146 359.00</u>
	Total		213					213.00	2,071,638.00	166 359.00 1 123 547 250.60
Future										
Mar 2019	ZATR	Future	19,000	2.4667	2.5002	0.0000	0.0000	0	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
			19,000					0.00	0.00	414 239.00	1 305 945 069.00	
		Total	19,000					0.00	0.00	414 239.00	1 305 945 069.00	
Future												
	Mar 2019	ZAUM	Future	422	14.0278	13.9804	0.0000	0.0000	10	14,088,000.00		
				422					10.00	14,088,000.00	155 373.00	180 244 770 260.00
		Total	422					10.00	14,088,000.00	159 896.00	180 244 770 260.00	
Future												
	Mar 2019	ZAUS	Future	515,329	14.0278	13.9804	14.1526	14.0258	39,851	561,024,494.20		
	Jun 2019	ZAUS	Future	112,532	14.1841	14.1315	14.2400	14.2400	2,271	32,349,241.50		
	Sep 2019	ZAUS	Future	14,250	14.3556	14.2974	0.0000	0.0000	0	0.00		
	Dec 2019	ZAUS	Future	9,900	14.5165	14.4662	0.0000	0.0000	320	4,682,240.00		
	Mar 2020	ZAUS	Future	4,566	14.6976	14.6659	14.7831	14.7831	3	44,349.30		
				656,577					42,445.00	598,100,325.00	193 575 675.00	2 331 989 341 584.40
Option												
	Mar 2019	ZAUS	10.33 Put	1,000	0.3733	0.4306	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	11.74 Put	1,000	7.2325	7.6932	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.47 Put	721	22.7413	25.2097	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.51 Put	720	24.2350	26.9103	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.80 Put	8,132	44.6435	51.5510	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.90 Put	16,000	56.8716	65.0366	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	12.92 Put	139,342	59.6004	68.0326	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.00 Put	15,434	71.5360	81.0751	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.05 Put	1,155	79.8665	90.1305	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.12 Put	138,000	92.7254	104.0477	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.15 Put	10,125	98.6823	110.4732	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.25 Put	225,407	120.5756	133.9776	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.33 Put	135,043	140.4576	155.7340	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.36 Put	134,750	148.6263	164.8227	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.46 Put	20,000	179.3267	197.6145	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.50 Put	12,050	192.6827	211.8197	0.0000	0.0000	10,000	0.00		
	Mar 2019	ZAUS	13.55 Put	10,000	210.2574	230.4596	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.60 Put	6,570	228.8140	250.0862	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.62 Put	6,432	236.5162	258.2151	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.68 Put	14,200	260.5688	283.5471	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.70 Put	2,500	268.9041	292.3088	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.72 Put	10,000	277.3984	301.2260	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.75 Put	17,981	290.4387	314.8994	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.79 Put	262,812	308.3788	333.6786	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.82 Put	1,800	322.2475	348.1709	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUS	13.85 Put	1,000	336.4726	363.0147	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	13.86 Put	721	341.2934	368.0389	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	360.9622	388.5220	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	464.2211	445.3808	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	440.6352	422.7749	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	35,606	412.8352	442.3749	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	434.6463	465.7492	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	358.5873	345.3043	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	340.5313	328.0588	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	582.2959	617.6959	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	323.3019	311.6097	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	595.5019	631.2097	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	629.0770	665.5324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	691.4445	729.1602	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	698.5219	736.3725	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	273.4282	264.0124	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	267.7262	258.5715	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	262.1391	253.2381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	5,050	734.3391	772.8381	0.0000	0.0000	10,000	0.00
Mar 2019	ZAUS	14.53 Put	108	756.1622	795.0369	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	778.2287	817.4679	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	845.8349	886.0974	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	915.4218	956.5589	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	190.6265	184.8680	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	970.8035	1012.5256	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	978.7997	1020.6035	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	986.8189	1028.7015	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	994.8590	1036.8194	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	153.9765	149.6652	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1159.7431	1203.0806	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1210.6015	1254.2883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1227.6833	1271.4816	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1236.2487	1280.1009	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	128.4626	125.1250	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1287.9606	1332.1232	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1296.6316	1340.8433	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	121.8153	118.7249	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	117.9994	115.0484	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1401.7668	1446.5233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	100.6954	98.3670	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	95.5312	93.1548	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	94.4821	92.1464	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	90.4008	88.2226	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	15.52 Call	1	88.4290	86.3250	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	86.4994	84.4689	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	75.7889	74.1577	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	64.2858	63.0674	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	62.8955	61.7233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	58.9053	57.8703	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	52.2597	51.4459	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	45.4059	44.8074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	43.0276	42.5014	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	37.8419	37.4669	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	34.7569	34.4672	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	28.1634	28.0406	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	27.5822	27.4732	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	18.3802	18.0285	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	18.1329	17.7819	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	16.9427	16.5948	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	15.6122	15.2691	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	15.4004	15.0581	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	15.1912	14.8498	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	12.7071	12.3774	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	11.5353	11.2124	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	8.7302	8.4302	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	4.2958	4.0631	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	2.3450	2.1746	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	6.0222	5.9312	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	62.6429	66.9134	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	125.7220	134.4431	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	174.4786	186.9201	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	179.3677	192.0672	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	245.5371	261.4611	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	1,282	248.6024	264.6670	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	479.1862	505.5152	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	503.8194	530.9551	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	759.1604	735.2768	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	565.6162	594.6470	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	603.3745	633.4861	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	676.7272	709.1100	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	706.3688	739.4598	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	575.5975	558.3974	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	520.3556	505.1785	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	950.0851	988.1084	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	963.7601	1002.0186	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	14.82 Call	30,000	447.1812	434.7476	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,500	375.9546	366.3361	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.32 Call	1,980	328.8269	320.8805	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.50 Call	145,182	295.0914	288.3378	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	274.5347	267.9088	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.64 Call	39,589	271.0806	264.5640	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	245.0305	239.3565	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.89 Call	6,800	231.5556	226.3116	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	227.2433	222.1346	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	216.1538	211.3984	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	204.3707	199.9883	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	79.3595	79.1919	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	10.4018	9.9967	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	131.2082	140.6360	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	338.5054	356.0804	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	615.8944	643.6122	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	646.8421	675.3583	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	711.0084	741.1008	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	778.1227	809.7478	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	848.0757	881.0948	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1562.5335	1606.6658	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1701.2469	1746.7924	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	433.3962	422.3167	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	240.8904	236.4237	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	211.7656	208.2444	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	199.0303	195.9144	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	194.5198	191.5457	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	176.2645	173.8612	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	168.2584	166.1006	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	161.6940	158.3905	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	112.7551	109.8149	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	62.0261	67.6504	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	565.6851	585.4588	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	765.8466	790.1456	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	435.5244	427.3742	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	364.5790	357.9362	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	157.7972	153.9787	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	94.3710	101.6618	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	792.2641	808.9977	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	483.6928	480.5348	0.0000	0.0000	0	0.00		
			<u>4,964,349</u>					<u>20,000.00</u>	<u>0.00</u>	<u>63 933 484.00</u>	<u>0.00</u>

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		Total	5,620,926				62,445.00	598,100,325.00	257 509 159.00	2 331 989 341 584.40
		Grand Total	6,915,406				91,222.00	658 580 706.00	352,011,566	3,238,881,689,267.23