



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 05-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Nov 2018	DAEU	Future	37	16.2872	16.3934	0.0000	0.0000	0	0.00		
			37					0.00	0.00	801 399.00	11 967 156 360.40
Option											
Aug 2019	DAEU	17.01 Put	31,200	933.6227	881.6845	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	452.5121	477.9434	0.0000	0.0000	0	0.00		
			93,600					0.00	0.00	1 390 587.00	0.00
		Total	93,637					0.00	0.00	2 191 986.00	11 967 156 360.40
Future											
Nov 2018	DAGB	Future	13	18.5981	18.6247	0.0000	0.0000	0	0.00		
			13					0.00	0.00	53 954.00	889 067 608.60
		Total	13					0.00	0.00	261 267.00	889 067 608.60
Future											
Nov 2018	DAUS	Future	70	14.2330	14.2981	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.2356	14.3012	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.2374	14.3031	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.2487	14.3143	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	368	14.2599	14.3255	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.2618	14.3274	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	4,665	14.2637	14.3292	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	500	14.2768	14.3422	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.2858	14.3512	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	2,710	14.3199	14.3855	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.3235	14.3891	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.3725	14.4379	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	2,093	14.3743	14.4397	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.3972	14.4626	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,096	14.4241	14.4896	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.4725	14.5380	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	DAUS	Future	3,029	14.4761	14.5416	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.4833	14.5488	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.5335	14.5991	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.5895	14.6551	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.6455	14.7112	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.7016	14.7674	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.7604	14.8263	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.8157	14.8818	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.8691	14.9354	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.9328	14.9994	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.9958	15.0625	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0547	15.1215	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.1178	15.1846	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.1808	15.2477	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2357	15.3026	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.3048	15.3718	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.4186	15.4858	0.0000	0.0000	0	0.00		
			<u>115,136</u>					<u>0.00</u>	<u>0.00</u>	<u>10 787 926.00</u>	<u>132 210 944 171.90</u>

Option

Nov 2018	DAUS	14.40 Put	20,000	235.4996	214.6151	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	237.7920	220.8260	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	83.7485	123.9793	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0123	0.0195	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.0310	0.0460	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1020.6547	1088.1628	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.32 Call	15,000	151.0730	200.0109	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	49.2329	77.7648	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	46.3611	73.9593	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.78 Call	30,000	41.0737	66.8552	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	29.2761	50.4459	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	681.8761	637.3459	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.76 Call	4,000	108.5247	133.0469	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	7.7535	8.8626	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	91.2942	83.7693	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	105.2873	96.5188	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	371.8150	421.5799	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	269.4935	247.6162	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	261.4894	302.0764	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	112.4577	135.2967	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	108.5924	130.8761	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	3.0217	4.0778	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	1.4504	1.5349	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	15.45 Put	23,000	1224.0903	1169.0185	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	142.9186	129.8501	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	322.1916	295.1838	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	746.1837	700.6529	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1089.1140	1036.3908	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	85.3154	77.8815	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	144.1057	131.5301	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	109.3179	126.5542	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	44.9537	53.5258	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	184.6333	169.7679	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	367.6812	341.0750	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	778.7697	734.6428	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1108.5287	1057.3360	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	33.9399	29.7772	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	45.3400	40.3201	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	244.4055	271.7522	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	219.4746	244.5457	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	26.8519	23.3796	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	174.5988	160.8487	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	452.0174	494.0554	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	367.6079	343.3027	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	844.3742	799.8013	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	22.8643	25.5635	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	10.6229	12.0943	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	24.6809	25.1131	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.88 Call	4,000	332.3997	358.0154	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	57.4147	53.5268	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	417.2429	393.0602	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	443.0882	417.8283	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	508.8579	545.7360	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	272.9419	294.4533	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	205.9898	223.0591	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	84.6278	81.6452	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	471.5190	446.6771	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	497.5197	471.7005	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	555.3185	588.8531	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	328.2990	349.7318	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	256.3491	273.8306	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	417.4284	396.5172	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.50 Put	65,000	681.1755	650.4828	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	113.7384	109.4329	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	518.2977	493.8872	0.0000	0.0000	0	0.00

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Mar 2019	DAUS	14.25 Put	250	544.4025	518.9893	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	595.2730	627.1300	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	374.9657	395.9001	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	303.1076	320.8136	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.04 Call	4,000	554.7744	581.9096	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	141.6773	135.9202	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1309.9471	1363.6338	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	560.4635	535.9244	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	586.4708	561.0607	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	630.1361	660.4053	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	416.9610	437.2121	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	348.1631	365.2943	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	163.9663	158.0082	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	597.2519	572.1732	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	623.3602	597.4950	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	662.7145	691.3365	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	456.8341	476.5283	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	386.4945	403.8869	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	914.8752	882.0556	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	270.2256	283.6808	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	182.3184	174.6330	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	626.6258	601.1897	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	652.7946	626.6193	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	688.2000	715.5055	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	488.2433	507.6667	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	417.9710	435.6539	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	316.1847	303.7058	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	407.0813	424.3360	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	199.8412	191.3934	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	657.3369	631.6202	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	683.5164	657.1233	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	721.4164	747.6853	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	526.2078	545.2607	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	455.8330	474.0352	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	821.3740	791.4677	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	511.3866	531.1174	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	216.9304	208.2756	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	682.9768	657.3364	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	709.1401	682.8605	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	743.8257	768.9633	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	553.1680	572.7528	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	483.0634	501.2000	0.0000	0.0000	0	0.00

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Sep 2019	DAUS	19.00 Call	20,000	261.3724	271.5586	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	235.5859	223.2962	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	706.0701	679.4946	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	732.1695	704.9976	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	771.8060	796.7562	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	583.1274	603.3965	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	511.1988	529.6762	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	251.1879	238.4152	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	728.2894	701.8667	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	754.3328	727.3374	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	792.2935	816.5790	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	607.4188	627.7401	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	537.8598	556.5831	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	265.8271	255.0104	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	750.1667	724.2197	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	776.1179	748.2724	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	821.7916	845.7214	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	638.6499	658.8232	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	570.1543	589.3152	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	283.8435	272.3666	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	772.4562	745.7916	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	797.6869	769.9911	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	852.7909	875.7983	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	673.6355	693.4210	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	606.5437	625.3946	0.0000	0.0000	0	0.00		
			<u>915,199</u>					<u>0.00</u>	<u>0.00</u>	<u>21 443 416.00</u>	<u>0.00</u>
Total			1,030,335					0.00	0.00	32 231 342.00	132 210 944 171.90
Future	Dec 2018	EUUS	Future 40	1.1436	1.1458	0.0000	0.0000	0	0.00		
			<u>40</u>					<u>0.00</u>	<u>0.00</u>	<u>744 445.00</u>	<u>8 445 126 755.00</u>
Total			40					0.00	0.00	744 445.00	8 445 126 755.00
Future	Dec 2018	GBUS	Future 250	1.3050	1.3009	0.0000	0.0000	0	0.00		
			<u>250</u>					<u>0.00</u>	<u>0.00</u>	<u>169 671.00</u>	<u>2 183 289 974.00</u>
Total			250					0.00	0.00	169 671.00	2 183 289 974.00
Future	Dec 2018	ZAAD	Future 23,992	10.3032	10.1364	0.0000	0.0000	0	0.00		
	Mar 2019	ZAAD	Future 421	10.4381	10.2685	0.0000	0.0000	0	0.00		
	Jun 2019	ZAAD	Future 4,932	10.5700	10.3983	0.0000	0.0000	0	0.00		

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			29,345					0.00	0.00	3 762 995.00	32 832 134 828.10	
		Total	29,345					0.00	0.00	3 795 372.00	32 832 134 828.10	
Future												
	Dec 2018	ZACA	Future	500	10.9375	10.9651	0.0000	0.0000	0	0.00		
	Mar 2019	ZACA	Future	400	11.0845	11.1118	0.0000	0.0000	0	0.00		
				900					0.00	0.00	138 903.00	1 369 104 061.60
		Total	900					0.00	0.00	138 903.00	1 369 104 061.60	
Future												
	Dec 2018	ZADK	Future	240	2.1923	2.2068	0.0000	0.0000	0	0.00		
				240					0.00	0.00	12 335.00	265 809 909.00
		Total	240					0.00	0.00	12 335.00	265 809 909.00	
Future												
	Dec 2018	ZAEU	Future	136,996	16.3407	16.4472	0.0000	0.0000	2,321	38,033,446.10		
	Mar 2019	ZAEU	Future	36,294	16.6753	16.7831	16.6750	16.6750	22	366,850.00		
	Jun 2019	ZAEU	Future	4,907	16.9930	17.1022	0.0000	0.0000	0	0.00		
	Sep 2019	ZAEU	Future	8,262	17.3469	17.4572	0.0000	0.0000	0	0.00		
				186,459					2,343.00	38,400,296.10	15 653 296.00	225 228 319 943.10
Option												
	Mar 2019	ZAEU	15.60 Put	462	222.3581	202.9889	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	16.00 Call	650	1032.2395	1108.3971	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	17.33 Put	462	1120.5697	1052.5252	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	19.65 Call	462	119.2740	132.4787	0.0000	0.0000	0	0.00		
	Sep 2019	ZAEU	18.60 Call	55,000	742.0541	779.0367	0.0000	0.0000	0	0.00		
				57,036					0.00	0.00	10 904 964.00	0.00
		Total	243,495					2,343.00	38,400,296.10	26 558 260.00	225 228 319 943.10	
Future												
	Dec 2018	ZAFR	Future	1,666	14.4002	14.3921	0.0000	0.0000	0	0.00		
	Jun 2019	ZAFR	Future	150	15.0096	14.9975	0.0000	0.0000	0	0.00		
				1,816					0.00	0.00	620 658.00	6 669 112 028.20
		Total	1,816					0.00	0.00	620 658.00	6 669 112 028.20	
Future												
	Dec 2018	ZAGB	Future	460,222	18.6471	18.6735	18.8500	18.6100	167	3,122,373.60		
	Mar 2019	ZAGB	Future	11,145	18.9563	18.9821	0.0000	0.0000	0	0.00		
	Jun 2019	ZAGB	Future	5,506	19.2485	19.2740	0.0000	0.0000	0	0.00		
	Sep 2019	ZAGB	Future	10,363	19.5693	19.5951	0.0000	0.0000	0	0.00		
				487,236					167.00	3,122,373.60	12 874 348.00	219 141 341 375.50

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Option										
Dec 2018	ZAGB	19.30 Call	200	197.6738	214.5587	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	18.00 Put	500	357.5914	365.2990	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	912.8484	910.7157	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	421.1234	437.9685	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	378.6343	394.5213	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	177.8063	187.9173	0.0000	0.0000	0	0.00	
			<u>4,200</u>					<i>0.00</i>	<i>0.00</i>	<i>1 779 113.00</i>
	Total		491,436					167.00	3,122,373.60	14 653 461.00
										219 141 341 375.50
Future										
Dec 2018	ZAJY	Future	6,905	0.1266	0.1275	0.0000	0.0000	0	0.00	
			<u>6,905</u>					<i>0.00</i>	<i>0.00</i>	<i>1 021 902.00</i>
	Total		6,905					0.00	0.00	1 021 902.00
										11 470 576 312.50
Future										
Jun 2019	ZAKS	Future	2,166	0.1377	0.1402	0.0000	0.0000	0	0.00	
			<u>2,166</u>					<i>0.00</i>	<i>0.00</i>	<i>38 066.00</i>
	Total		2,166					0.00	0.00	38 066.00
										515 662 000.00
Future										
Dec 2018	ZAUM	Future	307	14.2894	14.3548	0.0000	0.0000	0	0.00	
			<u>307</u>					<i>0.00</i>	<i>0.00</i>	<i>153 515.00</i>
	Total		307					0.00	0.00	158 038.00
										177 582 245 760.00
Future										
Dec 2018	ZAUS	Future	817,530	14.2894	14.3548	14.4820	14.2600	42,701	613,050,396.30	
Mar 2019	ZAUS	Future	51,888	14.4564	14.5219	14.6400	14.4380	336	4,879,989.50	
Jun 2019	ZAUS	Future	19,241	14.6148	14.6805	0.0000	0.0000	680	10,020,820.00	
Sep 2019	ZAUS	Future	16,395	14.7862	14.8522	0.0000	0.0000	476	7,028,520.80	
Dec 2019	ZAUS	Future	9,870	14.9551	15.0218	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	3,966	15.1462	15.2131	0.0000	0.0000	0	0.00	
			<u>918,890</u>					<i>44,193.00</i>	<i>634,979,726.60</i>	<i>188 894 877.00</i>
										2 265 558 527 031.20
Option										
Dec 2018	ZAUS	11.64 Put	2,764	1.1006	1.2741	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	11.75 Put	228,616	1.2740	1.4901	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	11.90 Put	11,300	1.5615	1.8508	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.00 Put	174,530	1.7935	2.1434	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.02 Put	5,500	1.8444	2.2078	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.10 Put	8,580	2.0651	2.4875	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.20 Put	7,300	2.3844	2.8932	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	ZAUS	12.25 Put	3,300	2.5649	3.1230	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	3.1130	3.8209	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1793.1417	1859.4218	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	3.7417	4.6218	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	4.5960	5.7080	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	4.9837	6.1996	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	5.5928	6.9696	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	10.0323	10.8013	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1301.6221	1367.6989	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	12.2221	12.8989	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	14.7923	15.3284	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	17.7888	18.1272	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1114.6560	1179.7979	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	27.0129	26.5987	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1069.2294	1133.9556	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	29.8294	29.1556	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	37.3025	35.8980	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	38.4793	36.9548	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	894.3578	956.4792	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	54.9578	51.6792	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	852.6152	913.8205	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	63.2152	59.0205	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	82.4643	76.0910	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	101.4614	92.7128	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	106.6459	97.4491	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	120.3964	110.0246	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	132.2222	120.8597	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,068	624.6955	678.4773	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	135.2955	123.6773	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	168.6363	154.3309	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	526.5135	576.1761	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	496.2101	544.3902	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	206.8101	189.5902	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	249.8730	229.5667	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	259.0730	238.1321	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	423.1460	467.2851	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	235,564	273.2357	251.3356	0.0000	0.0000	1,406	0.00
Dec 2018	ZAUS	14.16 Put	36,200	278.0540	255.8311	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	387.2073	429.0902	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	297.8073	274.2902	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	318.3254	293.5040	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	362.9740	403.2238	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.30 Put	35,000	350.5167	323.7274	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	327.3157	364.2630	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	367.9157	339.4630	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	319.1414	354.9825	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	379.7414	350.1825	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	403.9327	373.1477	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	299.4895	333.8004	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	284.5485	317.6532	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	263.3929	294.7200	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	473.9929	439.9200	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	480.6086	446.2441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	231.3035	259.7748	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,500	541.9035	504.9748	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	228.3016	256.4974	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	225.3361	253.2560	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	591.6460	552.8088	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	202.8851	228.6561	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	643.0729	602.4060	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	189.9499	214.4306	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	650.5499	609.6306	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	177.8060	201.0418	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	688.4060	646.2418	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	168.6348	190.9069	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	166.4160	188.4501	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	766.3372	721.8167	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	136.3657	155.0720	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	846.9657	800.2720	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	134.5195	153.0642	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	120.5768	137.7588	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	118.9354	135.9368	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	111.0575	127.1740	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	103.6937	118.9646	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1014.2937	964.1646	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1057.4161	1006.4785	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1100.9927	1049.2868	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	82.1131	94.7907	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	72.5831	84.0552	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	70.6234	81.8420	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	68.7168	79.6869	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1279.3168	1224.8869	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	67.7838	78.6317	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	60.7698	70.6866	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.60 Call	500	59.9475	69.7532	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	59.1367	68.8325	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	52.3284	61.0882	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	50.2443	58.7123	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1592.7043	1535.5974	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	41.4055	49.6427	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	37.4281	45.3351	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	32.1179	39.5386	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	26.5772	33.4194	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	25.2289	31.9166	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	22.7213	29.1049	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	21.1815	27.3657	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	11.9584	16.6741	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	7.7073	11.4806	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	5.3139	8.4127	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	3.2577	3.6586	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	13.0683	13.8001	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	46.2370	45.7761	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	49.2480	48.6286	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	88.2573	85.3051	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	90.7995	87.6827	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	101.5747	97.7566	0.0000	0.0000	1,406	0.00
Mar 2019	ZAUS	13.05 Put	1,155	110.4209	104.5236	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	123.7536	117.1571	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	129.8045	122.8963	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	151.4944	143.4774	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	170.5780	161.6055	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	178.1436	168.7983	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	188.5814	178.7257	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	205.0060	194.3625	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	216.4758	205.2848	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	231.4011	219.5127	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	9,570	246.9928	234.3845	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	273.3335	259.5385	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	280.1873	266.0893	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	287.1530	272.7464	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	297.8065	282.9349	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	313.4460	296.8933	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	341.9723	323.8590	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	358.9198	340.0364	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	17,406	403.3151	382.4831	0.0000	0.0000	1,406	0.00
Mar 2019	ZAUS	14.04 Put	7,100	421.8771	400.2581	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.20 Put	2,000	500.6442	475.8410	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	542.6720	516.2740	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	709.8517	748.5485	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	580.8566	553.0593	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	620.3230	591.1379	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	631.8290	602.2507	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	637.6199	607.8454	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	631.7384	666.6821	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	623.6780	658.0993	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	667.2780	636.1993	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	685.3691	653.7493	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	703.6800	671.5261	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	759.9087	726.1621	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	818.0142	782.7118	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	864.4553	827.9689	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	871.1733	834.5214	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	877.9160	841.0991	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	884.6798	847.6951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	454.9936	481.0940	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	200	452.0780	478.0231	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	1024.2173	984.0443	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1067.5920	1026.5087	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1082.1984	1040.8154	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1089.5253	1047.9951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	405.4441	428.8049	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1133.9185	1091.4690	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1141.3817	1098.7763	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	392.7560	415.3476	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1232.2440	1188.1206	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	339.6610	359.6987	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	337.5340	357.4766	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	329.1830	348.7317	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	325.0930	344.4478	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	321.0590	340.2219	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	297.9883	316.0439	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	271.7196	288.4878	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	268.4166	285.0232	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	258.7866	274.9105	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	244.2498	260.1747	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	11,406	241.1179	256.8788	0.0000	0.0000	1,406	0.00
Mar 2019	ZAUS	16.13 Call	138,000	221.7859	236.5081	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	198.9897	212.4604	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	16.38 Call	134,750	189.1592	202.0752	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	166.8382	178.4756	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	164.7711	176.2898	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	132.0758	141.6428	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	131.2784	140.7973	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	127.3746	136.6534	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	122.8635	131.8638	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	122.1293	131.0828	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	121.4001	130.3090	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	112.3655	120.7095	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	107.8233	115.8786	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	97.8982	104.7671	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	79.4734	85.7795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	68.3925	74.3519	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.7771	8.6138	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	52.8680	51.2200	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	120.4309	115.2972	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	169.0214	161.3802	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	173.7791	165.8957	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	236.3145	226.7438	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	437.3509	419.7272	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	458.7558	439.5223	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1139.1712	1182.1224	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	926.5457	963.0354	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	859.3739	893.5833	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	854.5315	822.4293	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	767.2539	798.5074	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,000	672.6471	700.3849	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	529.8039	551.5676	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	488.9430	509.0669	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	463.7663	482.8638	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	447.8404	466.2813	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	200.5779	207.9582	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	15.2702	16.1429	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	108.5564	101.6905	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	556.9278	537.0200	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	583.4760	562.4133	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	639.6362	615.2026	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	664.6986	639.3262	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	700.5852	674.3762	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	764.2629	736.6327	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	988.9886	956.9112	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>
Sep 2019	ZAUS	15.38 Put	5,000	1418.5272	1379.8204	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1545.8571	1505.3474	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	690.9912	713.8981	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	431.1796	448.1093	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	376.9966	392.7637	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	354.9491	369.0345	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	347.9988	361.9521	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	319.5737	332.9872	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	306.9338	320.1101	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	33,715	296.4841	309.4682	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.67 Call	141,127	293.9785	306.9178	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	19.32 Call	33,151	254.5454	269.7355	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	54.7106	53.7286	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	515.9653	500.4090	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	17.38 Call	1,000	579.9069	598.6907	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	20.00 Call	2,000	315.0093	331.6039	0.0000	0.0000	0	0.00
			<u>8,192,833</u>					<u>5,624.00</u>	<u>0.00</u>
		Total	<u>9,111,723</u>					<u>49,817.00</u>	<u>634,979,726.60</u>
									<u>249 786 798.00</u>
									<u>2 265 558 527 031.20</u>

Grand Total	<u>11,012,608</u>							<u>52,327.00</u>	<u>676 502 396.30</u>	<u>341,681,021</u>	<u>3,142,088,670,014.53</u>
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