



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 06-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Nov 2018	DAEU	Future	37	16.2837	16.2872	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	924.3311	933.6227	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	438.6269	452.5121	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	18.6280	18.5981	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	14.2134	14.2330	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.2160	14.2356	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.2173	14.2374	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.2276	14.2487	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	368	14.2379	14.2599	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.2396	14.2618	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	4,145	14.2414	14.2637	0.0000	0.0000	520	7,428,720.00		
Dec 2018	DAUS	Future	500	14.2534	14.2768	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.2620	14.2858	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,420	14.2944	14.3199	0.0000	0.0000	710	10,165,970.00		
Jan 2019	DAUS	Future	55	14.2978	14.3235	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.3468	14.3725	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	2,093	14.3486	14.3743	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.3715	14.3972	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,096	14.3980	14.4241	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.4457	14.4725	0.0000	0.0000	0	0.00		

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Mar 2019	DAUS	Future	3,029	14.4492	14.4761	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.4563	14.4833	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.5057	14.5335	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.5608	14.5895	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.6159	14.6455	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.6710	14.7016	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.7286	14.7604	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.7828	14.8157	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.8352	14.8691	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.9008	14.9328	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.9670	14.9958	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0289	15.0547	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.0950	15.1178	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.1612	15.1808	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2188	15.2357	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.2914	15.3048	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.4109	15.4186	0.0000	0.0000	0	0.00		
			<u>115,326</u>					<u>1,230.00</u>	<u>17,594,690.00</u>	<u>10 789 156.00</u>	<u>132 228 538 861.90</u>

Option

Nov 2018	DAUS	14.40 Put	20,000	239.7859	235.4996	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	239.6565	237.7920	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	69.6766	83.7485	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0000	0.0123	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.0385	0.0310	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1000.5690	1020.6547	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.32 Call	15,000	133.0865	151.0730	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	39.4382	49.2329	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	36.9407	46.3611	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.78 Call	30,000	32.3778	41.0737	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	22.3878	29.2761	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	695.0878	681.8761	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.76 Call	4,000	95.7176	108.5247	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	8.6369	7.7535	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	91.2561	91.2942	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	105.3904	105.2873	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	350.7435	371.8150	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	272.1017	269.4935	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	242.3663	261.4894	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	99.7689	112.4577	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	96.1567	108.5924	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	2.3816	3.0217	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	1.1750	1.4504	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	15.45 Put	23,000	1240.2943	1224.0903	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	144.2480	142.9186	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	326.1259	322.1916	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	756.8809	746.1837	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1103.9886	1089.1140	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	87.1367	85.3154	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	146.2112	144.1057	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	97.9127	109.3179	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	38.7007	44.9537	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	187.9210	184.6333	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	372.7849	367.6812	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	788.9098	778.7697	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1122.1804	1108.5287	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	34.8605	33.9399	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	46.5543	45.3400	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	227.9183	244.4055	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	203.7426	219.4746	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	28.2400	26.8519	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	178.6909	174.5988	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	432.0395	452.0174	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	373.2527	367.6079	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	854.7693	844.3742	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	19.5009	22.8643	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	8.9576	10.6229	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	26.0528	24.6809	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.88 Call	4,000	315.6042	332.3997	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	59.9921	57.4147	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	423.3124	417.2429	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	449.2728	443.0882	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	489.7210	508.8579	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	257.4815	272.9419	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	192.5856	205.9898	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	86.9219	84.6278	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	476.8469	471.5190	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	502.9769	497.5197	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	535.5925	555.3185	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	312.1855	328.2990	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	242.1973	256.3491	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	421.5667	417.4284	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.50 Put	65,000	686.8652	681.1755	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	114.1704	113.7384	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	523.2743	518.2977	0.0000	0.0000	0	0.00

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Mar 2019	DAUS	14.25 Put	250	549.4798	544.4025	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	574.9339	595.2730	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	358.2950	374.9657	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	288.5231	303.1076	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.04 Call	4,000	534.7021	554.7744	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	142.6683	141.6773	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1284.1807	1309.9471	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	564.6429	560.4635	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	590.8190	586.4708	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	609.0108	630.1361	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	399.5479	416.9610	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	332.3955	348.1631	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	166.0630	163.9663	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	601.3662	597.2519	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	627.6194	623.3602	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	641.0141	662.7145	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	438.6385	456.8341	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	369.3753	386.4945	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	920.5796	914.8752	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	258.1848	270.2256	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	184.2974	182.3184	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	630.7274	626.6258	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	657.0604	652.7946	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	666.1430	688.2000	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	470.0010	488.2433	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	401.0823	417.9710	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	317.2424	316.1847	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	390.6377	407.0813	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	203.9646	199.8412	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	661.1282	657.3369	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	687.5084	683.5164	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	698.8972	721.4164	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	506.9990	526.2078	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	438.5065	455.8330	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	825.7792	821.3740	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	493.2960	511.3866	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	218.5267	216.9304	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	686.6235	682.9768	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	713.0146	709.1401	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	721.2339	743.8257	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	533.5367	553.1680	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	465.5137	483.0634	0.0000	0.0000	0	0.00

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Sep 2019	DAUS	19.00 Call	20,000	251.4382	261.3724	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	234.6848	235.5859	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	708.9545	706.0701	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	735.2826	732.1695	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	748.8213	771.8060	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	563.9448	583.1274	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	493.7721	511.1988	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	249.6740	251.1879	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	730.9334	728.2894	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	757.2169	754.3328	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	769.0867	792.2935	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	588.0446	607.4188	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	520.1979	537.8598	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	263.3800	265.8271	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	750.9064	750.1667	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	777.1496	776.1179	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	798.7641	821.7916	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	619.0970	638.6499	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	552.4968	570.1543	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	279.5131	283.8435	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	770.4734	772.4562	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	796.6383	797.6869	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	830.7909	852.7909	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	654.8774	673.6355	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	589.3841	606.5437	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		1,030,525					1,230.00	17,594,690.00	32 232 572.00	132 228 538 861.90
Future											
Dec 2018	EUUS	Future	40	1.1451	1.1436	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	150	1.3091	1.3050	1.3111	1.3111	120	1,573,220.00		
			<u>150</u>					<u>120.00</u>	<u>1,573,220.00</u>	<u>169 791.00</u>	<u>2 184 863 194.00</u>
	Total		150					120.00	1,573,220.00	169 791.00	2 184 863 194.00
Future											
Dec 2018	ZAAD	Future	23,990	10.3225	10.3032	10.2935	10.2935	2,128	22,116,105.00		
Mar 2019	ZAAD	Future	421	10.4561	10.4381	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,932	10.5868	10.5700	0.0000	0.0000	0	0.00		

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			29,343					2,128.00	22,116,105.00	3 765 123.00	32 854 250 933.10
	Total		29,343					2,128.00	22,116,105.00	3 797 500.00	32 854 250 933.10
Future											
	Dec 2018 ZACA	Future	500	10.8783	10.9375	0.0000	0.0000	0	0.00		
	Mar 2019 ZACA	Future	400	11.0243	11.0845	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	2.1927	2.1923	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	137,004	16.3359	16.3407	16.3352	16.3352	148	2,417,956.60		
	Mar 2019 ZAEU	Future	36,294	16.6708	16.6753	16.6720	16.6720	1	16,672.00		
	Jun 2019 ZAEU	Future	4,907	16.9860	16.9930	0.0000	0.0000	0	0.00		
	Sep 2019 ZAEU	Future	8,262	17.3370	17.3469	0.0000	0.0000	0	0.00		
			186,467					149.00	2,434,628.60	15 653 445.00	225 230 754 571.70
Option											
	Mar 2019 ZAEU	15.60 Put	462	217.1450	222.3581	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	16.00 Call	650	1021.8256	1032.2395	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	17.33 Put	462	1111.2503	1120.5697	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	19.65 Call	462	112.5170	119.2740	0.0000	0.0000	0	0.00		
	Sep 2019 ZAEU	18.60 Call	55,000	724.5575	742.0541	0.0000	0.0000	0	0.00		
			57,036					0.00	0.00	10 904 964.00	0.00
	Total		243,503					149.00	2,434,628.60	26 558 409.00	225 230 754 571.70
Future											
	Dec 2018 ZAFR	Future	1,666	14.2627	14.4002	0.0000	0.0000	0	0.00		
	Jun 2019 ZAFR	Future	150	14.8616	15.0096	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	460,225	18.6754	18.6471	18.6857	18.6538	409	7,650,979.00		
	Mar 2019 ZAGB	Future	11,147	18.9854	18.9563	18.9940	18.9940	2	37,988.00		
	Jun 2019 ZAGB	Future	5,506	19.2766	19.2485	0.0000	0.0000	0	0.00		
	Sep 2019 ZAGB	Future	10,363	19.5951	19.5693	0.0000	0.0000	0	0.00		
			487,241					411.00	7,688,967.00	12 874 759.00	219 149 030 342.50

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Option										
Dec 2018	ZAGB	19.30 Call	200	198.5839	197.6738	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	18.00 Put	500	349.3648	357.5914	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	892.0200	912.8484	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	423.0710	421.1234	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	379.7897	378.6343	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	175.8753	177.8063	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	491,441				411.00	7,688,967.00	14 653 872.00
										219 149 030 342.50
Future										
Dec 2018	ZAJY	Future	6,905	0.1263	0.1266	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	0.1387	0.1377	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	386	14.2654	14.2894	0.0000	0.0000	93	132,988,000.00	
			<u>386</u>					<i>93.00</i>	<i>132,988,000.00</i>	<i>153 608.00</i>
			Total	386				93.00	132,988,000.00	158 131.00
										177 715 233 760.00
Future										
Dec 2018	ZAUS	Future	806,291	14.2654	14.2894	14.3500	14.2300	40,534	578,096,823.20	
Mar 2019	ZAUS	Future	51,733	14.4298	14.4564	14.4955	14.3947	982	14,167,737.00	
Jun 2019	ZAUS	Future	19,241	14.5857	14.6148	14.6480	14.5918	10	146,199.00	
Sep 2019	ZAUS	Future	16,395	14.7539	14.7862	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	Future	9,870	14.9243	14.9551	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	3,966	15.1249	15.1462	0.0000	0.0000	0	0.00	
			<u>907,496</u>					<i>41,526.00</i>	<i>592,410,759.20</i>	<i>188 936 403.00</i>
										2 266 150 937 790.40
Option										
Dec 2018	ZAUS	11.64 Put	2,764	1.0252	1.1006	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	11.75 Put	228,616	1.2113	1.2740	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	11.90 Put	11,300	1.5265	1.5615	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.00 Put	174,530	1.7858	1.7935	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.02 Put	5,500	1.8432	1.8444	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.10 Put	8,580	2.0940	2.0651	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.20 Put	7,300	2.4618	2.3844	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	2.6719	2.5649	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	3.3177	3.1130	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1769.4707	1793.1417	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	4.0707	3.7417	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	5.1089	4.5960	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	5.5848	4.9837	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	6.3365	5.5928	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	11.2153	10.0323	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1278.9020	1301.6221	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	13.5020	12.2221	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	16.1645	14.7923	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	19.2469	17.7888	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1092.2602	1114.6560	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	28.6414	27.0129	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1046.8894	1069.2294	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	31.4894	29.8294	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	39.0184	37.3025	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	40.2008	38.4793	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	872.1022	894.3578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	56.7022	54.9578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	830.3426	852.6152	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	64.9426	63.2152	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	84.6381	82.4643	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	103.7444	101.4614	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	108.9560	106.6459	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	122.7737	120.3964	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	134.6550	132.2222	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,068	603.1418	624.6955	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	137.7418	135.2955	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	171.2323	168.6363	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	505.1960	526.5135	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	474.9892	496.2101	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	209.5892	206.8101	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	252.8845	249.8730	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	262.1368	259.0730	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	402.2369	423.1460	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	235,564	276.3866	273.2357	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	281.2343	278.0540	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	366.5138	387.2073	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	301.1138	297.8073	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	321.7726	318.3254	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	342.4573	362.9740	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.30 Put	35,000	355.5353	350.5167	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	308.5860	327.3157	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	373.1860	367.9157	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	300.5839	319.1414	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	385.1839	379.7414	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	409.7188	403.9327	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	281.3629	299.4895	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	266.7749	284.5485	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	246.1578	263.3929	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	480.7578	473.9929	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	487.4641	480.6086	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	214.9818	231.3035	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,500	549.5818	541.9035	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	212.0723	228.3016	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	209.2009	225.3361	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	599.9724	591.6460	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	187.4916	202.8851	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	652.0488	643.0729	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	175.0185	189.9499	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	659.6185	650.5499	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	163.3369	177.8060	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	697.9369	688.4060	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	154.5353	168.6348	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	152.4066	166.4160	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	776.7834	766.3372	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	123.5230	136.3657	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	858.1230	846.9657	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	121.7753	134.5195	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	108.6343	120.5768	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	107.0919	118.9354	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	99.6987	111.0575	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	92.8075	103.6937	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1027.4075	1014.2937	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1070.9884	1057.4161	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1115.0127	1100.9927	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	72.7338	82.1131	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	63.9383	72.5831	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	62.1343	70.6234	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	60.3831	68.7168	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1294.9831	1279.3168	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	59.5260	67.7838	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	53.1035	60.7698	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.60 Call	500	52.3521	59.9475	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	51.6124	59.1367	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	45.4164	52.3284	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	43.1528	50.2443	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1610.2866	1592.7043	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	35.0712	41.4055	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	31.5777	37.4281	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	26.9391	32.1179	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	22.1351	26.5772	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	20.9716	25.2289	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	18.8156	22.7213	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	17.4966	21.1815	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	9.6889	11.9584	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	6.1605	7.7073	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	4.2030	5.3139	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	3.3887	3.2577	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	14.0400	13.0683	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	47.8510	46.2370	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	50.8917	49.2480	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	90.1141	88.2573	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	92.6623	90.7995	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	103.4631	101.5747	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	112.4051	110.4209	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	125.8797	123.7536	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	131.9939	129.8045	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	153.8994	151.4944	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	173.1652	170.5780	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	180.8003	178.1436	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	191.3368	188.5814	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	207.9101	205.0060	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	219.4821	216.4758	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	234.5400	231.4011	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	9,570	250.2655	246.9928	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	276.8312	273.3335	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	283.7458	280.1873	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	290.7702	287.1530	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	301.5113	297.8065	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	317.2493	313.4460	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	341.7598	0.0000	0.0000	0.0000	1,000	0.00
Mar 2019	ZAUS	13.86 Put	721	345.9498	341.9723	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	362.9935	358.9198	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	17,406	407.6486	403.3151	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.04 Put	7,100	426.3153	421.8771	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	505.5221	500.6442	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	547.7856	542.6720	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	688.4220	709.8517	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	586.1775	580.8566	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	625.8559	620.3230	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	637.4249	631.8290	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	643.2458	637.6199	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	610.8954	631.7384	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	602.9194	623.6780	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	673.1194	667.2780	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	691.3396	685.3691	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	709.7844	703.6800	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	766.4121	759.9087	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	824.9222	818.0142	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	871.6795	864.4553	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	878.4439	871.1733	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	885.2330	877.9160	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	892.0398	884.6798	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	436.4435	454.9936	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	200	433.5747	452.0780	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	1032.4981	1024.2173	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1076.1509	1067.5920	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1090.8477	1082.1984	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1098.2216	1089.5253	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	387.7436	405.4441	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1142.9307	1133.9185	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1150.4469	1141.3817	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	375.3368	392.7560	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1241.9729	1232.2440	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	323.4939	339.6610	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	321.4242	337.5340	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	313.2861	329.1830	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	309.3004	325.0930	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	305.3734	321.0590	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	282.9292	297.9883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	257.4155	271.7196	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	254.2153	268.4166	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	244.8767	258.7866	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	230.8006	244.2498	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	11,406	227.7717	241.1179	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	209.0887	221.7859	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	16.30 Call	10,000	187.1070	198.9897	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	177.6408	189.1592	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	156.1993	166.8382	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	154.2174	164.7711	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	122.9404	132.0758	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	122.1809	131.2784	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	118.4573	127.3746	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	114.1593	122.8635	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	113.4595	122.1293	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	112.7664	121.4001	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	104.1718	112.3655	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	99.8568	107.8233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	90.4449	97.8982	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	73.0361	79.4734	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	62.6115	68.3925	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.8856	7.7771	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	54.2229	52.8680	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	121.7961	120.4309	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	170.2177	169.0214	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	174.9533	173.7791	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	237.4487	236.3145	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	439.6842	437.3509	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	461.2291	458.7558	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1112.8580	1139.1712	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	901.7723	926.5457	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	835.2102	859.3739	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	859.6759	854.5315	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	744.1330	767.2539	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,000	650.7733	672.6471	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	510.3468	529.8039	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	470.3286	488.9430	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	445.6984	463.7663	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	430.1360	447.8404	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	190.5510	200.5779	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	14.5465	15.2702	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	102.7718	108.5564	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	558.0498	556.9278	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	584.5814	583.4760	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	642.3912	639.6362	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	667.6991	664.6986	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	703.9416	700.5852	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	768.2371	764.2629	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	14.72 Put	1,200	995.0908	988.9886	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1427.1221	1418.5272	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1555.3799	1545.8571	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	669.6416	690.9912	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	415.9104	431.1796	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	363.4893	376.9966	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	343.3871	354.9491	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	336.7143	347.9988	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	309.4508	319.5737	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	297.3454	306.9338	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	287.3423	296.4841	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	284.9493	293.9785	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	244.1745	254.5454	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	45.2202	54.7106	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	516.1277	515.9653	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	562.7384	579.9069	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	300.6810	315.0093	0.0000	0.0000	0	0.00		
			<u>8,193,833</u>					<u>1,000.00</u>	<u>0.00</u>	<u>60 892 921.00</u>	<u>0.00</u>
		Total	9,101,329					42,526.00	592,410,759.20	249 829 324.00	2 266 150 937 790.40

Grand Total	11,002,394							46,657.00	776 806 369.80	341,727,678	3,142,865,476,384.33
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