



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 31-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Nov 2018	DAEU	Future	37	16.8618	16.7036	0.0000	0.0000	0	0.00		
			<u>37</u>					<u>0.00</u>	<u>0.00</u>	<u>801 399.00</u>	<u>11 967 156 360.40</u>
<b>Option</b>											
Aug 2019	DAEU	17.01 Put	31,200	655.1430	722.3799	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	606.1018	558.7240	0.0000	0.0000	0	0.00		
			<u>93,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 390 587.00</u>	<u>0.00</u>
		<b>Total</b>	<b>93,637</b>					<b>0.00</b>	<b>0.00</b>	<b>2 191 986.00</b>	<b>11 967 156 360.40</b>
<b>Future</b>											
Nov 2018	DAGB	Future	13	18.9985	18.6980	0.0000	0.0000	0	0.00		
			<u>13</u>					<u>0.00</u>	<u>0.00</u>	<u>53 954.00</u>	<u>889 067 608.60</u>
		<b>Total</b>	<b>13</b>					<b>0.00</b>	<b>0.00</b>	<b>261 267.00</b>	<b>889 067 608.60</b>
<b>Future</b>											
Oct 2018	DAUS	Future	0	14.8133	14.6083	0.0000	0.0000	1,694	25,093,730.20		
Nov 2018	DAUS	Future	55	14.8207	14.6084	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.8386	14.6280	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.8422	14.6317	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.8441	14.6335	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.8551	14.6446	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	368	14.8662	14.6556	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.8680	14.6574	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	7,446	14.8698	14.6593	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	500	14.8830	14.6723	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.8925	14.6817	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	2,710	14.9287	14.7172	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.9325	14.7210	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.9862	14.7746	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	2,093	14.9881	14.7765	0.0000	0.0000	1,173	17,588,548.50		
Feb 2019	DAUS	Future	70	15.0129	14.8009	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>		
Feb 2019	DAUS	Future	6,096	15.0414	14.8290	0.0000	0.0000	309	4,649,832.00		
Mar 2019	DAUS	Future	3,731	15.0928	14.8796	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	15.0966	14.8834	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	15.1042	14.8909	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	15.1575	14.9434	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	15.2169	15.0011	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	15.2763	15.0588	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	15.3357	15.1165	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	15.3982	15.1791	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.4568	15.2379	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.5135	15.2947	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.5813	15.3614	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.6477	15.4262	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.7098	15.4868	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.7762	15.5516	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.8427	15.6164	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.9005	15.6728	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.9734	15.7439	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	16.0934	15.8610	0.0000	0.0000	0	0.00		
			<u>117,972</u>					<u>3,176.00</u>	<u>47,332,110.70</u>	<u>10 765 043.00</u>	<u>131 883 346 801.90</u>

**Option**

Nov 2018	DAUS	14.40 Put	20,000	6.3548	39.3320	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	0.0182	0.0000	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	1.4289	4.6974	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	0.2323	0.1091	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.40 Put	20,000	38.1185	93.5938	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	45.4788	104.6282	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	426.3754	298.9414	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0000	0.0000	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.0029	0.0243	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1626.1932	1417.3673	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.32 Call	15,000	571.1727	417.8901	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	298.0822	204.1527	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	287.3190	196.5269	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.78 Call	30,000	266.6366	182.0015	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	215.9945	146.7609	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	261.8945	403.2609	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.76 Call	4,000	357.8619	263.7803	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	2.2064	3.8161	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	22.3459	41.0486	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	26.0189	47.0490	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	839.9252	670.1549	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>
Nov 2018	DAUS	14.25 Put	250	80.9244	139.6245	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	662.7001	516.0249	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	351.6025	262.0856	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	341.8648	254.8616	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	19.2875	12.7176	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	5.9610	3.8711	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	733.2850	903.6072	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	37.8575	66.8610	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	110.1011	176.8371	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	358.0758	489.0318	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	622.7933	783.9960	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	19.9297	37.3603	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	39.0086	68.9346	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	295.8645	228.4110	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	142.0155	107.9432	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	58.7072	96.6071	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	147.3835	218.5579	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	404.3507	530.7279	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	662.4582	816.1153	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	10.1949	15.6409	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	11.7724	19.8697	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	536.6753	427.9348	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	489.2764	389.0776	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	12.3840	16.7194	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	60.2143	94.7418	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	854.6868	710.3286	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	154.8247	224.2935	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	465.7884	593.9435	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	63.7938	49.7616	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	33.8314	26.5894	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	13.1587	17.7648	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.88 Call	4,000	596.1013	497.3611	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	28.7163	36.9180	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	200.6953	266.8061	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	215.9079	286.4816	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	870.4508	738.0293	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	495.9463	413.2508	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	383.0476	317.6910	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	41.8921	54.2000	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	246.2693	314.2839	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	262.6315	334.8188	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	890.3796	767.4994	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	15.27 Call	250	548.4894	467.8511	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	434.7079	369.8362	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	222.7500	279.9495	0.0000	0.0000	260,000	0.00
Mar 2019	DAUS	14.50 Put	65,000	401.3755	0.0000	0.0000	0.0000	65,000	0.00
Mar 2019	DAUS	13.00 Put	500	54.6902	72.1873	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	288.2275	356.8419	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	305.4033	377.9498	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	910.4098	794.9833	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	590.5323	512.1876	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	481.7511	417.6226	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.04 Call	4,000	827.3757	728.0445	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	67.6074	88.4282	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1805.5323	1627.3167	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	327.4397	395.9961	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	345.1755	417.4780	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	929.0448	820.1039	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	628.1045	551.6307	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	527.1107	463.3516	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	77.5156	101.9064	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	363.6320	432.2771	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	381.8708	452.6832	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	950.1049	844.8240	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	664.8750	588.6098	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	566.2645	501.6869	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	609.9377	706.8957	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	400.7747	354.4537	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	84.3901	111.6914	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	393.7207	462.1855	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	412.3145	482.8120	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	967.1854	864.0606	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	693.1714	617.6772	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	598.8889	533.6824	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	170.6467	216.6602	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	583.2300	520.1925	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	90.1535	121.0351	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	425.4205	494.0369	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	444.3685	514.8504	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	992.9416	892.1510	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	728.6312	653.9156	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	637.6791	572.5110	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	549.5793	631.4716	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	706.1761	635.1471	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	13.00 Put	500	102.8784	130.6429	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.20 Put	250	452.7912	520.3836	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	471.9606	541.2925	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	1008.7341	910.1970	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	754.5094	680.3094	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	664.8768	599.1284	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	340.1017	313.0761	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	115.5336	146.0632	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	477.3219	544.5612	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	496.7020	565.7132	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	1032.9253	935.6681	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	785.3687	711.1285	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	693.7643	627.6150	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	127.3209	159.7673	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	501.1918	567.8735	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	520.7799	589.0851	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	1047.8027	952.6504	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	808.6780	735.2449	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	720.1523	653.4533	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	142.4971	175.2870	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	521.9818	589.2870	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	541.7995	610.7731	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	1075.7202	981.0555	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	841.5586	767.7559	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	754.3924	687.2951	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	157.9165	189.0464	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	541.6998	609.7662	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	561.9301	631.4862	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	1103.7844	1009.7718	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	877.4007	802.4127	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	791.8188	723.6772	0.0000	0.0000	0	0.00		
			<u>940,839</u>					<u>325,000.00</u>	<u>0.00</u>	<u>21 443 416.00</u>	<u>0.00</u>
	<b>Total</b>		<b>1,058,811</b>					<b>328,176.00</b>	<b>47,332,110.70</b>	<b>32 208 459.00</b>	<b>131 883 346 801.90</b>
<b>Future</b>											
Dec 2018	EUUS	Future	40	1.1359	1.1413	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>
	<b>Total</b>		<b>40</b>					<b>0.00</b>	<b>0.00</b>	<b>744 445.00</b>	<b>8 445 126 755.00</b>
<b>Future</b>											
Dec 2018	GBUS	Future	250	1.2789	1.2767	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
			250					0.00	0.00	169 671.00	2 183 289 974.00
		<b>Total</b>	<b>250</b>					<b>0.00</b>	<b>0.00</b>	169 671.00	2 183 289 974.00
<b>Future</b>											
	Dec 2018 JYZA	Future	0	7.5719	7.6485	0.0000	0.0000	16,000	160,780,812.00		
			0					16,000.00	160,780,812.00	196 549.00	1 954 748 430.61
		<b>Total</b>	<b>0</b>					<b>16,000.00</b>	<b>160,780,812.00</b>	472 349.00	1 954 748 430.61
<b>Future</b>											
	Dec 2018 ZAAD	Future	34,035	10.5186	10.3697	10.5867	10.5647	254	2,687,246.30		
	Mar 2019 ZAAD	Future	420	10.6600	10.5096	0.0000	0.0000	0	0.00		
	Jun 2019 ZAAD	Future	4,932	10.7978	10.6437	10.8550	10.7772	3	32,483.70		
			39,387					257.00	2,719,730.00	3 746 571.00	32 660 187 196.80
		<b>Total</b>	<b>39,387</b>					<b>257.00</b>	<b>2,719,730.00</b>	3 778 948.00	32 660 187 196.80
<b>Future</b>											
	Dec 2018 ZACA	Future	500	11.3526	11.1917	0.0000	0.0000	0	0.00		
	Mar 2019 ZACA	Future	400	11.5079	11.3477	0.0000	0.0000	0	0.00		
			900					0.00	0.00	138 903.00	1 369 104 061.60
		<b>Total</b>	<b>900</b>					<b>0.00</b>	<b>0.00</b>	138 903.00	1 369 104 061.60
<b>Future</b>											
	Dec 2018 ZADK	Future	240	2.2691	2.2478	0.0000	0.0000	0	0.00		
			240					0.00	0.00	12 335.00	265 809 909.00
		<b>Total</b>	<b>240</b>					<b>0.00</b>	<b>0.00</b>	12 335.00	265 809 909.00
<b>Future</b>											
	Dec 2018 ZAEU	Future	106,222	16.9200	16.7604	16.7986	16.7986	139	2,351,058.60		
	Mar 2019 ZAEU	Future	36,313	17.2733	17.1116	0.0000	0.0000	0	0.00		
	Jun 2019 ZAEU	Future	4,907	17.6074	17.4396	17.5950	17.5950	1	17,595.00		
	Sep 2019 ZAEU	Future	8,262	17.9766	17.8049	0.0000	0.0000	0	0.00		
			155,704					140.00	2,368,653.60	15 601 363.00	224 363 131 055.90
<b>Option</b>											
	Mar 2019 ZAEU	15.60 Put	462	116.7166	135.1833	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	16.00 Call	650	1473.3130	1341.3834	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	17.33 Put	462	767.1794	852.9610	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	19.65 Call	462	199.6172	174.9574	0.0000	0.0000	0	0.00		
	Sep 2019 ZAEU	18.60 Call	55,000	969.7851	0.0000	0.0000	0.0000	110,000	0.00		
			57,036					110,000.00	0.00	10 904 964.00	0.00
		<b>Total</b>	<b>212,740</b>					<b>110,140.00</b>	<b>2,368,653.60</b>	26 506 327.00	224 363 131 055.90

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Dec 2018	ZAFR	Future	1,666	14.8765	14.7048	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	15.5119	15.3300	0.0000	0.0000	0	0.00		
			<u>1,816</u>					<u>0.00</u>	<u>0.00</u>	<u>620 658.00</u>	<u>6 669 112 028.20</u>
		<b>Total</b>	<b>1,816</b>					<b>0.00</b>	<b>0.00</b>	<b>620 658.00</b>	<b>6 669 112 028.20</b>
<b>Future</b>											
Dec 2018	ZAGB	Future	437,894	19.0507	18.7494	19.0203	18.8447	903	17,092,010.90		
Mar 2019	ZAGB	Future	10,145	19.3751	19.0715	19.3346	19.1275	2,003	38,529,136.10		
Jun 2019	ZAGB	Future	5,506	19.6793	19.3704	19.4067	19.4067	500	9,703,350.00		
Sep 2019	ZAGB	Future	10,363	20.0136	19.7012	19.6960	19.6960	500	9,848,000.00		
Dec 2019	ZAGB	Future	0	20.3440	20.0290	20.0100	20.0100	500	10,005,000.00		
			<u>463,908</u>					<u>4,406.00</u>	<u>85,177,497.00</u>	<u>12 843 810.00</u>	<u>218 561 885 163.90</u>
		<b>Total</b>	<b>463,908</b>					<b>4,406.00</b>	<b>85,177,497.00</b>	<b>12 843 810.00</b>	<b>218 561 885 163.90</b>
<b>Option</b>											
Dec 2018	ZAGB	19.30 Call	200	361.3689	257.5052	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	291.1280	358.4007	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	736.8293	880.3962	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	591.2799	479.3624	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	534.2689	432.5469	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	263.9160	207.6026	0.0000	0.0000	0	0.00		
			<u>4,200</u>					<u>0.00</u>	<u>0.00</u>	<u>1 779 113.00</u>	<u>0.00</u>
		<b>Total</b>	<b>468,108</b>					<b>4,406.00</b>	<b>85,177,497.00</b>	<b>14 622 923.00</b>	<b>218 561 885 163.90</b>
<b>Future</b>											
Dec 2018	ZAJY	Future	6,905	0.1321	0.1307	0.0000	0.0000	0	0.00		
			<u>6,905</u>					<u>0.00</u>	<u>0.00</u>	<u>1 021 902.00</u>	<u>11 470 576 312.50</u>
		<b>Total</b>	<b>6,905</b>					<b>0.00</b>	<b>0.00</b>	<b>1 021 902.00</b>	<b>11 470 576 312.50</b>
<b>Future</b>											
Jun 2019	ZAKS	Future	2,166	0.1448	0.1418	0.0000	0.0000	0	0.00		
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>	<u>515 662 000.00</u>
		<b>Total</b>	<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	<b>38 066.00</b>	<b>515 662 000.00</b>
<b>Future</b>											
Dec 2018	ZATR	Future	6,000	2.5935	2.6102	0.0000	0.0000	0	0.00		
			<u>6,000</u>					<u>0.00</u>	<u>0.00</u>	<u>389 239.00</u>	<u>1 243 489 569.00</u>
		<b>Total</b>	<b>6,000</b>					<b>0.00</b>	<b>0.00</b>	<b>389 239.00</b>	<b>1 243 489 569.00</b>
<b>Future</b>											
Dec 2018	ZAUM	Future	305	14.8963	14.6854	14.9168	14.7358	25	36,973,550.00		
Mar 2019	ZAUM	Future	5	15.0757	14.8628	15.1079	14.9349	20	29,994,750.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
			310					45.00	66,968,300.00	153 495.00	177 553 120 410.00
	<b>Total</b>		<b>310</b>					<b>45.00</b>	<b>66,968,300.00</b>	158 018.00	177 553 120 410.00
<b>Future</b>											
Dec 2018	ZAUS	Future	817,626	14.8963	14.6854	14.9400	14.7293	67,794	1,006,294,230.00		
Mar 2019	ZAUS	Future	53,738	15.0757	14.8628	15.1004	14.9197	3,204	48,034,277.30		
Jun 2019	ZAUS	Future	19,376	15.2437	15.0271	15.2700	15.0900	1,464	22,190,952.20		
Sep 2019	ZAUS	Future	17,702	15.4255	15.2065	0.0000	0.0000	742	11,411,960.00		
Dec 2019	ZAUS	Future	5,200	15.6048	15.3844	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	3,966	15.8062	15.5809	0.0000	0.0000	0	0.00		
			977,608					73,204.00	1,087,931,419.50	188 682 155.00	2 262 461 426 577.10
<b>Option</b>											
Dec 2018	ZAUS	11.64 Put	2,764	0.6211	1.0557	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	11.75 Put	228,616	0.8124	1.3776	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	11.90 Put	11,300	1.1650	1.6669	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.00 Put	174,530	1.3120	1.8960	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.02 Put	5,500	1.3436	1.9458	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.10 Put	8,580	1.4784	2.1598	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.20 Put	7,300	1.6684	2.4643	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.25 Put	3,300	1.7735	2.6341	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.38 Put	39,589	2.0829	3.1393	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.50 Call	228,616	2398.7234	2189.1029	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.50 Put	26,400	2.4234	3.7029	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.63 Put	39,589	2.8654	4.4447	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.68 Put	10,000	3.0593	4.7737	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.75 Put	1,000	3.3567	5.2811	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.95 Put	500	4.4084	7.1033	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.00 Call	6,000	1901.0282	1693.0645	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.00 Put	177,520	4.7282	7.6645	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.05 Put	1,500	5.0755	8.2772	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.10 Put	11,300	5.4528	8.9462	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.20 Call	7,100	1702.6105	1495.8787	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.22 Put	5,500	6.5005	10.8199	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.25 Call	10,000	1653.0984	1446.7565	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.25 Put	17,800	6.7984	11.3565	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.32 Put	13,650	7.5579	14.7391	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.33 Put	135,000	7.6745	15.2857	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.45 Call	500	1456.7891	1258.6149	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.45 Put	4,080	10.4891	23.2149	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.50 Call	228,616	1409.0581	1212.7572	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.50 Put	29,800	12.7581	27.3572	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.60 Put	66,000	18.4891	37.3673	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	13.68 Put	13,150	24.4149	47.2396	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	26.1079	49.9916	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	30.7419	57.3986	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	34.8886	63.8917	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,068	1132.2892	950.9966	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	35.9892	65.5966	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	48.5155	84.5311	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	1002.1872	830.7467	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	960.3586	792.8847	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	64.0586	107.4847	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	82.9711	134.8466	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	87.1874	140.8246	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	855.6509	699.2789	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	93.7916	150.1173	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	96.1100	153.3017	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	802.0882	651.8766	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	105.7882	166.4766	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	116.1158	180.3547	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	765.0999	619.3355	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	132.8510	202.5061	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	708.0901	569.5860	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	141.7901	214.1860	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	694.2648	557.5966	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	147.9648	222.1966	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	160.8329	238.7537	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	660.4586	528.4055	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	634.2048	505.8598	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	596.1504	473.3760	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	199.8504	287.9760	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	203.6631	292.7175	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	536.2928	422.7622	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,500	239.9928	337.3622	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	530.5521	417.9402	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	524.8579	413.1612	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	270.7472	374.5038	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	480.8938	376.4555	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	303.6745	414.5554	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	454.8533	355.9315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	308.5533	420.5315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	429.9037	336.4176	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	333.6037	451.0176	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	410.7188	321.5126	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.85 Call	50,000	406.0287	317.8810	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	386.9140	514.8878	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	342.7870	267.7954	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	446.4870	582.3954	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	338.9635	264.7343	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	309.7576	241.4283	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	306.2745	238.6566	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	289.4024	225.2582	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	4,050	273.4070	212.5944	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	577.1070	727.1944	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	611.9535	765.2312	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	647.6072	803.9355	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	225.1116	174.5815	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	203.0215	157.2454	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	198.4110	153.5396	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	193.9067	149.9186	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	797.6067	964.5186	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	191.6921	148.1408	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	174.8669	134.6494	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	172.8728	133.0507	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	170.9000	131.4726	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	153.8489	118.0876	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	148.4767	113.9380	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1074.0285	1254.5579	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	128.7934	98.7780	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	119.9585	91.9913	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,050	107.8446	82.7037	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	94.7219	72.6631	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	91.4371	70.1535	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	85.2160	64.9776	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	81.3155	61.6877	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	54.9018	40.6538	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	40.2400	29.7321	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	31.0611	22.9295	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	1.8252	2.6451	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	7.6523	9.1489	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	20.4736	28.4130	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	21.9822	30.3359	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	42.3863	55.7065	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	43.7622	57.3865	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	49.6418	64.5366	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	53.6411	69.3729	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	13.12 Put	138,000	59.6852	76.6464	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	62.4420	79.9518	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	72.3989	91.8329	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	81.2681	102.3466	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	84.8129	106.8721	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	1,800	89.7336	114.0918	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	97.5433	125.5675	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	103.0470	133.6614	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	110.2714	144.2847	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	117.8956	155.4875	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	133.5796	174.6382	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	137.7253	179.6669	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	141.9584	184.7933	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	148.4811	192.6702	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	157.4992	203.5171	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	174.1775	223.4678	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	184.2326	235.4316	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	211.0708	267.1466	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	222.4972	280.5628	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	272.2625	341.0868	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	299.6145	374.8139	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	1082.4136	946.3285	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	324.9288	405.8007	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	1,800	353.4054	438.1438	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	361.7905	447.6340	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	366.0248	452.4166	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	974.5981	849.7379	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	963.3202	839.5505	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	387.6202	476.7505	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	400.9088	491.6765	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	414.4451	506.8394	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	456.5271	553.7554	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	500.7874	602.7650	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	536.6876	642.2915	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	541.9192	648.0378	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	547.1764	653.8048	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	552.4630	659.5997	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	720.4566	623.0337	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	663.4189	781.6198	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	698.6052	820.0195	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	710.6157	832.9964	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	716.6595	839.5172	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	15.17 Call	720	646.7541	558.6056	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	753.3864	879.0796	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	759.5865	885.7442	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	835.7250	967.3328	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	547.3629	471.6674	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	544.1154	468.8391	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	531.3271	457.6979	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	525.0521	452.2368	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	518.8507	446.8418	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	483.2293	416.0306	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	442.3089	380.8948	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	437.1422	376.4648	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	422.0854	363.5174	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	1,800	400.6072	345.0304	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	396.0009	341.0679	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	367.4519	316.5440	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	333.5608	287.4881	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	318.8566	274.5491	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	285.2593	243.6579	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	282.1281	240.7854	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	228.4739	194.9981	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	227.1540	193.8727	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	220.6749	188.3595	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	213.1736	181.9759	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	211.9517	180.9353	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	210.7351	179.9038	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	195.6349	167.0675	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	188.0106	160.5943	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	168.0234	143.6361	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	127.9149	112.7581	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	108.1590	97.4628	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	6.5871	7.2901	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	17.9422	26.5564	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	50.5478	69.2458	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	77.2162	102.5656	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	79.9363	105.9134	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	118.0978	152.1691	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	259.1896	312.6752	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	273.7624	329.2486	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1568.1640	1411.1004	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1288.2501	1153.2450	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	1199.0020	1073.5126	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>		
Jun 2019	ZAUS	14.63 Put	8,203	559.2923	652.6322	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	1079.0567	964.1052	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,000	954.1999	850.6720	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.55 Call	0	782.8343	695.7955	0.0000	0.0000	25,000	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	759.1666	674.6066	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	701.8144	623.3643	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	666.2459	591.9837	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	643.6570	572.0911	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	287.9871	254.8677	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	11.9545	13.5333	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	42.8626	56.0258	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	363.0536	420.8757	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	383.1180	442.9085	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	425.2204	488.9877	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	443.5481	508.9799	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	469.9738	537.7419	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	517.3635	589.1429	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	689.9614	783.0809	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1061.2258	1175.9738	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.55 Call	0	1042.6522	943.1203	0.0000	0.0000	30,000	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1173.4709	1293.2589	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	931.7955	841.9619	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	592.3945	533.2935	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	519.0807	467.6818	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	485.9506	438.0983	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	474.0429	427.4745	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	424.9144	384.6607	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	402.8581	369.2828	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	386.4503	356.5721	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	382.9831	353.5260	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	334.0136	310.5606	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	41.1588	42.4674	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	328.2356	383.6787	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	762.4865	695.6797	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	439.2748	408.6571	0.0000	0.0000	0	0.00		
			<u>8,184,816</u>					<u>55,000.00</u>	<u>0.00</u>	<u>60 871 821.00</u>	<u>0.00</u>
	<b>Total</b>		<b>9,102,424</b>					<b>128,204.00</b>	<b>1,087,931,419.50</b>	<b>249 553 976.00</b>	<b>2 262 461 426 577.10</b>

<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>
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Grand Total

10,993,747

587,228.00

1 453 278 522.80

341,320,401

3,137,002,975,710.33