



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 01-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Nov 2018	DAEU	Future	37	16.5770	16.8618	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	792.0684	655.1430	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	524.9540	606.1018	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	18.8020	18.9985	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	0	14.5700	14.8207	0.0000	0.0000	55	800,250.00		
Nov 2018	DAUS	Future	70	14.4740	14.8386	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.4776	14.8422	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.4794	14.8441	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.4902	14.8551	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	368	14.5009	14.8662	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.5027	14.8680	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	7,446	14.5045	14.8698	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	500	14.5170	14.8830	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.5259	14.8925	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	2,710	14.5596	14.9287	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.5631	14.9325	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.6142	14.9862	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	2,093	14.6161	14.9881	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.6398	15.0129	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6,096	14.6671	15.0414	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	3,731	14.7163	15.0928	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.7199	15.0966	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.7272	15.1042	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.7781	15.1575	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.8353	15.2169	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.8926	15.2763	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.9499	15.3357	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	15.0103	15.3982	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0670	15.4568	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.1219	15.5135	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.1885	15.5813	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2541	15.6477	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.3155	15.7098	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.3811	15.7762	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4467	15.8427	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.5038	15.9005	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.5758	15.9734	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.6943	16.0934	0.0000	0.0000	0	0.00		
			<u>117,917</u>					<u>55.00</u>	<u>800,250.00</u>	<u>10 765 098.00</u>	<u>131 884 147 051.90</u>

Option

Nov 2018	DAUS	14.40 Put	20,000	40.1751	6.3548	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	0.0000	0.0182	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	6.0477	1.4289	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	0.0520	0.2323	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.40 Put	20,000	132.6117	38.1185	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	144.2367	45.4788	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	201.1427	426.3754	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	0.0327	0.0029	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1263.9165	1626.1932	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.32 Call	15,000	302.7835	571.1727	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	131.0440	298.0822	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	125.3210	287.3190	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.78 Call	30,000	114.5307	266.6366	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	89.0052	215.9945	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	499.6052	261.8945	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.76 Call	4,000	191.9647	357.8619	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	5.8511	2.2064	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	55.7315	22.3459	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	64.9885	26.0189	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	546.7727	839.9252	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	181.9121	80.9244	0.0000	0.0000	0	0.00

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Nov 2018	DAUS	14.30 Call	600	406.9313	662.7001	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	192.5396	351.6025	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	186.6556	341.8648	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	6.9825	19.2875	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	2.1668	5.9610	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	1020.6979	733.2850	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	91.5903	37.8575	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	225.0271	110.1011	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	579.0270	358.0758	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	894.7615	622.7933	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	54.0373	19.9297	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	93.6398	39.0086	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	171.7865	295.8645	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	75.7117	142.0155	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	125.5934	58.7072	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	269.1794	147.3835	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	618.6693	404.3507	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	922.9667	662.4582	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	19.7779	10.1949	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	27.2638	11.7724	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	344.9894	536.6753	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	312.1018	489.2764	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	18.2083	12.3840	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	120.3897	60.2143	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	600.6054	854.6868	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	273.7366	154.8247	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	683.7975	465.7884	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	35.3286	63.7938	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	17.5086	33.8314	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	20.7813	13.1587	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.88 Call	4,000	427.1995	596.1013	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	45.7966	28.7163	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	323.7838	200.6953	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	345.8415	215.9079	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	643.1612	870.4508	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	353.0053	495.9463	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	269.0131	383.0476	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	67.8231	41.8921	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	374.6187	246.2693	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	397.2491	262.6315	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	679.0916	890.3796	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	407.8299	548.4894	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	15.63 Call	250	320.3206	434.7079	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	330.9654	222.7500	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.50 Put	65,000	563.7423	401.3755	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	89.4140	54.6902	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	419.5173	288.2275	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	442.5098	305.4033	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	711.1713	910.4098	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	452.5932	590.5323	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	367.3072	481.7511	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.04 Call	4,000	654.4586	827.3757	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	109.0786	67.6074	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1499.2392	1805.5323	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	460.3879	327.4397	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	483.5766	345.1755	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	739.7303	929.0448	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	492.3422	628.1045	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	412.0179	527.1107	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	126.0924	77.5156	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	496.4963	363.6320	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	519.9786	381.8708	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	768.5111	950.1049	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	531.6848	664.8750	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	451.8191	566.2645	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	789.3708	609.9377	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	318.1043	400.7747	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	140.8956	84.3901	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	525.6294	393.7207	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	549.3035	412.3145	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	790.9714	967.1854	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	562.5680	693.1714	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	485.0505	598.8889	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	259.1011	170.6467	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	472.8860	583.2300	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	154.0746	90.1535	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	556.5069	425.4205	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	580.3153	444.3685	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	821.9297	992.9416	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	600.4666	728.6312	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	524.4570	637.6791	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	707.9863	549.5793	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	584.4049	706.1761	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	168.0737	102.8784	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	14.20 Put	250	583.9576	452.7912	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	606.2405	471.9606	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	842.1921	1008.7341	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	628.1979	754.5094	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	551.4410	664.8768	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	292.1013	340.1017	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	183.7498	115.5336	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	608.8120	477.3219	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	631.1323	496.7020	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	869.1350	1032.9253	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	659.5883	785.3687	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	580.0160	693.7643	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	197.8262	127.3209	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	632.9775	501.1918	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	655.3964	520.7799	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	887.4668	1047.8027	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	684.0866	808.6780	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	607.1346	720.1523	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	212.3559	142.4971	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	655.0674	521.9818	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	677.8486	541.7995	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	917.3913	1075.7202	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	716.3635	841.5586	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	640.9069	754.3924	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	229.1481	157.9165	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	675.7150	541.6998	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	698.6869	561.9301	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	947.5925	1103.7844	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	751.9503	877.4007	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	678.1710	791.8188	0.0000	0.0000	0	0.00		
			<u>940,839</u>					<u>0.00</u>	<u>0.00</u>	<u>21 443 416.00</u>	<u>0.00</u>
Total			1,058,756					55.00	800,250.00	32 208 514.00	131 884 147 051.90
Future											
Dec 2018	EUUS	Future	40	1.1446	1.1359	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	1.2974	1.2789	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>

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Total			250					0.00	0.00	169 671.00	2 183 289 974.00
Future											
Dec 2018	ZAAD	Future	21,866	10.2593	10.5186	10.5605	10.5605	12,171	127,745,663.50		
Mar 2019	ZAAD	Future	421	10.3940	10.6600	10.6718	10.6718	1	10,671.80		
Jun 2019	ZAAD	Future	4,932	10.5259	10.7978	0.0000	0.0000	0	0.00		
			<u>27,219</u>					<u>12,172.00</u>	<u>127,756,335.30</u>	<u>3 758 743.00</u>	<u>32 787 943 532.10</u>
Total			27,219					12,172.00	127,756,335.30	3 791 120.00	32 787 943 532.10
Future											
Dec 2018	ZACA	Future	500	11.1187	11.3526	0.0000	0.0000	0	0.00		
Mar 2019	ZACA	Future	400	11.2683	11.5079	0.0000	0.0000	0	0.00		
			<u>900</u>					<u>0.00</u>	<u>0.00</u>	<u>138 903.00</u>	<u>1 369 104 061.60</u>
Total			900					0.00	0.00	138 903.00	1 369 104 061.60
Future											
Dec 2018	ZADK	Future	240	2.2316	2.2691	0.0000	0.0000	0	0.00		
			<u>240</u>					<u>0.00</u>	<u>0.00</u>	<u>12 335.00</u>	<u>265 809 909.00</u>
Total			240					0.00	0.00	12 335.00	265 809 909.00
Future											
Dec 2018	ZAEU	Future	139,364	16.6305	16.9200	16.7550	16.7203	45,916	765,842,589.30		
Mar 2019	ZAEU	Future	36,311	16.9730	17.2733	17.0677	17.0250	252	4,300,975.00		
Jun 2019	ZAEU	Future	4,907	17.2982	17.6074	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	8,262	17.6576	17.9766	0.0000	0.0000	0	0.00		
			<u>188,844</u>					<u>46,168.00</u>	<u>770,143,564.30</u>	<u>15 647 531.00</u>	<u>225 133 274 620.20</u>
Option											
Mar 2019	ZAEU	15.60 Put	462	164.8171	116.7166	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	1243.3229	1473.3130	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	935.7400	767.1794	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	154.7799	199.6172	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	850.1721	969.7851	0.0000	0.0000	0	0.00		
			<u>57,036</u>					<u>0.00</u>	<u>0.00</u>	<u>10 904 964.00</u>	<u>0.00</u>
Total			245,880					46,168.00	770,143,564.30	26 552 495.00	225 133 274 620.20
Future											
Dec 2018	ZAFR	Future	1,666	14.5524	14.8765	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	15.1673	15.5119	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>
Total			1,816					0.00	0.00	620 658.00	6 669 112 028.20

<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>		
Future											
Dec 2018	ZAGB	Future	460,582	18.8504	19.0507	0.0000	0.0000	27,351	518,167,363.00		
Mar 2019	ZAGB	Future	11,145	19.1649	19.3751	19.3300	19.1820	2,000	38,472,575.00		
Jun 2019	ZAGB	Future	5,506	19.4606	19.6793	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	10,363	19.7876	20.0136	19.8128	19.8128	500	9,906,400.00		
			<u>487,596</u>					<u>29,851.00</u>	<u>566,546,338.00</u>	<u>12 873 661.00</u>	<u>219 128 431 501.90</u>
Option											
Dec 2018	ZAGB	19.30 Call	200	284.8464	361.3689	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	336.4447	291.1280	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	836.4942	736.8293	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	516.7499	591.2799	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	466.6109	534.2689	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	228.4663	263.9160	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>
		Total	491,796					29,851.00	566,546,338.00	14 652 774.00	219 128 431 501.90
Future											
Dec 2018	ZAJY	Future	6,905	0.1293	0.1321	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>
		Total	6,905					0.00	0.00	1 021 902.00	11 470 576 312.50
Future											
Jun 2019	ZAKS	Future	2,166	0.1404	0.1448	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>
		Total	2,166					0.00	0.00	38 066.00	515 662 000.00
Future											
Dec 2018	ZATR	Future	6,000	2.5720	2.5935	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>
		Total	6,000					0.00	0.00	389 239.00	1 243 489 569.00
Future											
Dec 2018	ZAUM	Future	305	14.5294	14.8963	14.6432	14.6292	10	14,636,200.00		
Mar 2019	ZAUM	Future	5	14.6999	15.0757	0.0000	0.0000	0	0.00		
			<u>310</u>					<u>10.00</u>	<u>14,636,200.00</u>	<u>153 505.00</u>	<u>177 567 756 610.00</u>
		Total	310					10.00	14,636,200.00	158 028.00	177 567 756 610.00
Future											
Dec 2018	ZAUS	Future	821,671	14.5294	14.8963	14.7708	14.5401	95,915	1,404,969,123.10		
Mar 2019	ZAUS	Future	53,284	14.6999	15.0757	14.8400	14.7850	2,454	36,353,050.00		
Jun 2019	ZAUS	Future	19,376	14.8612	15.2437	15.1200	14.9800	400	6,015,000.00		

<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	Future	17,702	15.0368	15.4255	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	Future	9,200	15.2118	15.6048	0.0000	0.0000	8,000	122,312,000.00
Mar 2020	ZAUS	Future	3,966	15.4107	15.8062	0.0000	0.0000	0	0.00
			<u>925,199</u>					<u>106,769.00</u>	<u>1,569,649,173.10</u>
									<u>188 788 924.00</u>
									<u>2 264 031 075 750.20</u>

Option

Dec 2018	ZAUS	11.64 Put	2,764	1.2195	0.6211	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	1.4155	0.8124	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	1.7107	1.1650	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	1.9451	1.3120	0.0000	0.0000	16	0.00
Dec 2018	ZAUS	12.02 Put	5,500	1.9961	1.3436	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	2.2156	1.4784	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	2.5289	1.6684	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	2.7041	1.7735	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	3.2273	2.0829	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	2033.2143	2398.7234	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	3.8143	2.4234	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	4.5928	2.8654	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	4.9399	3.0593	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	5.4778	3.3567	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	7.4316	4.4084	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1537.4398	1901.0282	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	8.0398	4.7282	0.0000	0.0000	24	0.00
Dec 2018	ZAUS	13.05 Put	1,500	8.7071	5.0755	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	9.4543	5.4528	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1343.3617	1702.6105	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	15.0456	6.5005	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1296.1978	1653.0984	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	16.7978	6.7984	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	21.5305	7.5579	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	22.2859	7.6745	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1112.4926	1456.7891	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	33.0926	10.4891	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1068.0455	1409.0581	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	38.6455	12.7581	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	51.8741	18.4891	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	64.7065	24.4149	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	68.2514	26.1079	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	77.7369	30.7419	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	85.9866	34.8886	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,068	817.5440	1132.2892	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	88.1440	35.9892	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	112.2733	48.5155	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.95 Call	39,589	705.2960	1002.1872	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	669.9973	960.3586	0.0000	0.0000	200	0.00
Dec 2018	ZAUS	14.00 Put	58,250	140.5973	64.0586	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	173.3212	82.9711	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	180.4060	87.1874	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	583.4176	855.6509	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	191.3779	93.7916	0.0000	0.0000	40	0.00
Dec 2018	ZAUS	14.16 Put	36,200	195.1249	96.1100	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	539.9779	802.0882	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	210.5779	105.7882	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	226.7677	116.1158	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	510.3309	765.0999	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	252.4370	132.8510	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	465.2925	708.0901	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	265.8925	141.7901	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	454.4939	694.2648	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	275.0939	147.9648	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	294.0436	160.8329	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	428.2955	660.4586	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	408.1541	634.2048	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	379.2882	596.1504	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	349.8882	199.8504	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	355.2334	203.6631	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	335.8654	536.2928	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,500	406.4654	239.9928	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	331.8745	530.5521	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	327.9275	524.8579	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	449.4091	270.7472	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	297.8218	480.8938	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	494.3221	303.6745	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	280.2937	454.8533	0.0000	0.0000	16	0.00
Dec 2018	ZAUS	14.75 Put	700	500.8937	308.5533	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	263.7122	429.9037	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	534.3122	333.6037	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	251.1032	410.7188	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	248.0382	406.0287	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	603.8378	386.9140	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	206.1026	342.7870	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	676.7026	446.4870	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	203.5597	338.9635	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	184.2865	309.7576	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	182.0059	306.2745	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.15 Call	27,030	171.0080	289.4024	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	4,050	160.6630	273.4070	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	831.2630	577.1070	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	871.5355	611.9535	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	912.3926	647.6072	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	129.6067	225.1116	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	115.4415	203.0215	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	112.5091	198.4110	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	109.6494	193.9067	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1080.2494	797.6067	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	108.2476	191.6921	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	97.6569	174.8669	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	96.4075	172.8728	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	95.1754	170.9000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	84.7762	153.8489	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	81.5720	148.4767	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1381.4460	1074.0285	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	69.9449	128.7934	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	64.7859	119.9585	0.0000	0.0000	24	0.00
Dec 2018	ZAUS	16.00 Call	5,050	57.7738	107.8446	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	49.3621	94.7219	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	47.2803	91.4371	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	43.3677	85.2160	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	40.9359	81.3155	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	25.7302	54.9018	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	18.1341	40.2400	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	13.5485	31.0611	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	3.2831	1.8252	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	10.5402	7.6523	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	36.6301	20.4736	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	39.0147	21.9822	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	70.0414	42.3863	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	72.0720	43.7622	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	80.6940	49.6418	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	86.5036	53.6411	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	95.2116	59.6852	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	99.1568	62.4420	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	113.2874	72.3989	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	128.5993	81.2681	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	134.7141	84.8129	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	143.1830	89.7336	0.0000	0.0000	300	0.00
Mar 2019	ZAUS	13.46 Put	20,000	156.5767	97.5433	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.50 Put	50	165.9746	103.0470	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	178.2638	110.2714	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	191.1626	117.8956	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	213.0945	133.5796	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	218.8283	137.7253	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	224.6640	141.9584	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	233.6126	148.4811	0.0000	0.0000	601	0.00
Mar 2019	ZAUS	13.79 Put	262,812	245.9043	157.4992	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	268.4151	174.1775	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	281.8574	184.2326	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	318.5419	211.0708	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	334.4899	222.4972	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	402.8073	272.2625	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	439.6551	299.6145	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	849.0422	1082.4136	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	473.3365	324.9288	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	508.3492	353.4054	0.0000	0.0000	300	0.00
Mar 2019	ZAUS	14.44 Put	7,000	518.5932	361.7905	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	523.7567	366.0248	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	759.2987	974.5981	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	749.8592	963.3202	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	549.9592	387.6202	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	565.9971	400.9088	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	582.2677	414.4451	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	632.4470	456.5271	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	684.9353	500.7874	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	727.3902	536.6876	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	733.5499	541.9192	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	739.7330	547.1764	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	745.9393	552.4630	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	551.6474	720.4566	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	200	548.2108	0.0000	0.0000	0.0000	200	0.00
Mar 2019	ZAUS	15.04 Put	77,255	874.7742	663.4189	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	915.1030	698.6052	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	928.7102	710.6157	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	935.5441	716.6595	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	492.9795	646.7541	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	976.9655	753.3864	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	983.9378	759.5865	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1069.0816	835.7250	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	414.1648	547.3629	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	411.6375	544.1154	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	15.50 Call	224,757	401.7037	531.3271	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	396.8329	525.0521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	392.0262	518.8507	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	364.4964	483.2293	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	333.0414	442.3089	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	329.0805	437.1422	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	317.5150	422.0854	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	301.0181	400.6072	0.0000	0.0000	300	0.00
Mar 2019	ZAUS	16.00 Call	10,000	297.4848	396.0009	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	275.6465	367.4519	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	248.1836	333.5608	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	236.2040	318.8566	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	208.9177	285.2593	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	206.3837	282.1281	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	166.1522	228.4739	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	165.1670	227.1540	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	160.3408	220.6749	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	154.7603	213.1736	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	153.8511	211.9517	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	152.9479	210.7351	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	141.7457	195.6349	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	136.1049	188.0106	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	121.3582	168.0234	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	96.7729	127.9149	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	83.4592	108.1590	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.6871	6.5871	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	37.3591	17.9422	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	90.3796	50.5478	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	130.0236	77.2162	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	133.9558	79.9363	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	187.5471	118.0978	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	362.5822	259.1896	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	380.6425	273.7624	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1299.5747	1568.1640	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1061.0395	1288.2501	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	986.0531	1199.0020	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	732.5126	559.2923	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	883.3699	1079.0567	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,000	776.5360	954.1999	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	612.7508	759.1666	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	565.9049	701.8144	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	536.9734	666.2459	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	16.00 Call	20	518.6459	643.6570	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	230.6678	287.9871	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	15.1332	11.9545	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	78.4099	42.8626	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	477.4218	363.0536	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	501.0759	383.1180	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	550.3822	425.2204	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	571.7119	443.5481	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	602.3416	469.9738	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	657.8843	517.3635	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	866.3935	689.9614	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1273.6690	1061.2258	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1394.8549	1173.4709	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	780.2934	931.7955	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	492.0178	592.3945	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	431.3040	519.0807	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	403.9599	485.9506	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	394.1437	474.0429	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	359.2489	424.9144	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	345.0199	402.8581	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	333.2586	386.4503	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	330.4397	382.9831	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	290.6532	334.0136	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	48.3996	41.1588	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	442.9514	328.2356	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	650.1497	762.4865	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	371.7529	439.2748	0.0000	0.0000	0	0.00		
			<u>8,185,716</u>					<u>2,021.00</u>	<u>0.00</u>	<u>60 873 842.00</u>	<u>0.00</u>
	Total		9,110,915					108,790.00	1,569,649,173.10	249 662 766.00	2 264 031 075 750.20
	Grand Total		11,046,843					197,046.00	3 049 531 860.70	341,517,447	3,140,052,507,571.03