



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 29-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Mar 2019	CAHF	Future	10,000	78.2500	140.5600	0.0000	0.0000	0	0.00		
			<u>10,000</u>					<u>0.00</u>	<u>0.00</u>	<u>10 000.00</u>	<u>2 531 700.00</u>
		<b>Total</b>	<b>10,000</b>					<b>0.00</b>	<b>0.00</b>	10 000.00	2 531 700.00
<b>Future</b>											
Nov 2018	DAEU	Future	37	15.5244	15.7455	0.0000	0.0000	0	0.00		
			<u>37</u>					<u>0.00</u>	<u>0.00</u>	<u>801 436.00</u>	<u>11 967 735 272.40</u>
<b>Option</b>											
Dec 2018	DAEU	15.83 Put	32,000	390.7750	253.7677	0.0000	0.0000	0	0.00		
Jan 2019	DAEU	15.85 Put	13,000	421.8441	297.4271	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	16,200	1319.0296	1175.5784	0.0000	0.0000	30,000	0.00		
Aug 2019	DAEU	19.65 Call	62,400	237.3021	278.9589	0.0000	0.0000	0	0.00		
			<u>123,600</u>					<u>30,000.00</u>	<u>0.00</u>	<u>1 510 587.00</u>	<u>0.00</u>
		<b>Total</b>	<b>123,637</b>					<b>30,000.00</b>	<b>0.00</b>	2 312 023.00	11 967 735 272.40
<b>Future</b>											
Nov 2018	DAGB	Future	13	17.4268	17.8425	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	27	17.5966	18.0326	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	24	17.7706	18.2103	0.0000	0.0000	0	0.00		
			<u>64</u>					<u>0.00</u>	<u>0.00</u>	<u>54 018.00</u>	<u>890 236 083.80</u>
		<b>Total</b>	<b>64</b>					<b>0.00</b>	<b>0.00</b>	261 331.00	890 236 083.80
<b>Future</b>											
Nov 2018	DAUS	Future	0	13.6278	13.9661	0.0000	0.0000	461	6,282,415.80		
Nov 2018	DAUS	Future	1,535	13.6326	13.9661	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	0	13.6326	13.9686	0.0000	0.0000	166	2,276,773.00		
Dec 2018	DAUS	Future	500	13.6343	13.9761	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	13.6426	13.9845	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	1,760	13.6733	14.0165	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.6766	14.0198	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>		
Jan 2019	DAUS	Future	150	13.6979	14.0419	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	20	13.6996	14.0435	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	13.7144	14.0588	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.7226	14.0673	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,249	13.7243	14.0690	0.0000	0.0000	200	2,758,300.00		
Feb 2019	DAUS	Future	70	13.7462	14.0917	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.7496	14.0952	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	13.7665	14.1127	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	4,705	13.7716	14.1180	0.0000	0.0000	200	2,768,000.00		
Mar 2019	DAUS	Future	80	13.7801	14.1267	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.8178	14.1653	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	13.8212	14.1688	0.0000	0.0000	200	2,778,000.00		
Apr 2019	DAUS	Future	55	13.8280	14.1758	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	13.8759	14.2249	0.0000	0.0000	200	2,788,800.00		
May 2019	DAUS	Future	55	13.9289	14.2793	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	13.9820	14.3342	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.0352	14.3891	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.0901	14.4458	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.1423	14.4992	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.1929	14.5508	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.2486	14.6081	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.3064	14.6674	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.3606	14.7228	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.4185	14.7820	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.4765	14.8412	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.5269	14.8928	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.5904	14.9577	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.6951	15.0647	0.0000	0.0000	0	0.00		
			<u>109,060</u>					<u>1,427.00</u>	<u>19,652,288.80</u>	<u>10 909 655.00</u>	<u>133 922 101 605.90</u>
<b>Option</b>											
Nov 2018	DAUS	13.00 Put	500	0.0545	0.0898	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.80 Put	1,000	178.3217	26.9185	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.85 Put	600	224.0804	38.2077	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.08 Call	500	0.7358	39.2423	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	421	617.5686	298.1846	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.30 Call	600	0.1129	10.6752	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.80 Call	600	0.0204	0.7074	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.82 Call	250	0.0196	0.6244	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	0.0000	0.0151	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	0.0000	0.0582	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.45 Put	23,000	1819.1628	1478.3215	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.75 Put	65,000	195.8076	59.8674	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	DAUS	13.90 Put	30,000	310.0406	108.8830	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	674.9873	368.2039	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	1268.3294	929.8008	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1667.5841	1327.1204	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.50 Put	25,000	80.9495	20.3011	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	125	203.5145	65.4885	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	24.0594	110.8224	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	4.2374	21.0377	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	164.8987	52.5852	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	300.3488	119.1687	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	1.7606	6.6703	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	0.3948	1.4067	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	369.5822	184.1012	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	428.6837	223.3222	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	693.3610	429.3261	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	1253.7758	935.5073	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1648.1444	1314.2871	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	52.0698	19.9175	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	75.9239	25.9671	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	20.1656	63.6348	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	15.6045	52.2801	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	38.9959	18.1140	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	334.5363	179.5166	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	96.8795	203.1598	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	668.3111	426.9754	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	1309.9072	1001.3678	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	1.1601	1.4072	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	1.2868	1.3978	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	218.2475	108.9327	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	179.2941	339.5366	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	86.6590	178.0127	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	263.5936	139.8218	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	144.1320	270.7905	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	59.6646	123.6596	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	26.3207	9.0671	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	94.0659	47.2513	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	688.6866	472.2482	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	726.3015	503.9654	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	171.6160	279.6051	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	68.6805	119.6255	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	44.1129	81.3384	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	136.7818	79.6132	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	14.20 Put	250	732.5482	526.1505	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	768.4949	556.9537	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	224.7189	334.2644	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	111.5582	171.8168	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	79.3567	125.4688	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	566.8850	0.0000	0.0000	0.0000	32,000	0.00
Mar 2019	DAUS	14.00 Put	65,000	641.4093	463.4000	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	179.3345	112.5439	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	777.8785	578.1038	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	812.6138	608.2151	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	277.0278	385.6591	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	155.1817	221.3441	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	117.6116	170.3833	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	219.0398	145.2960	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	795.2428	1019.8165	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	816.7338	623.0607	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	850.4471	652.1789	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	322.0035	429.0589	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	195.1711	265.7872	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	155.1886	213.2814	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	254.1868	175.7254	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	850.1963	661.4159	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	883.1310	690.2322	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	360.2430	465.3885	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	229.9430	304.4890	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	186.9506	248.5176	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1232.1594	1010.6957	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	137.5383	171.8403	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	282.6943	202.1812	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	879.0920	695.2858	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	911.5060	723.9921	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	392.7851	498.7406	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	260.5387	337.9917	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	216.8009	282.0632	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	464.4231	345.9320	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	212.1228	275.1371	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	313.0225	231.1015	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	908.7132	729.8539	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	940.6005	758.4072	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	430.5502	538.1282	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	296.0242	376.4855	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	251.5516	320.5142	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	14.48 Put	3,147	1102.2023	906.3968	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,147	290.7355	366.7462	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	338.8952	255.4337	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.20 Put	250	933.2579	757.2011	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	964.7180	785.6072	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	457.2716	564.6040	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	323.0897	404.3868	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	277.8082	348.0430	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	130.2973	176.3080	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	362.7780	276.4012	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	954.9689	782.6455	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	986.0195	810.8874	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	486.4786	595.9539	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	352.3101	435.8410	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	304.6190	377.2425	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	385.9259	296.8670	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	976.0618	807.2325	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	1006.7437	835.2949	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	509.4435	620.1628	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	377.5744	462.2496	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	331.4433	405.0493	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	404.9995	313.2832	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	993.3198	828.1658	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	1024.1833	856.0919	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	533.5453	645.6633	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	402.4463	488.8387	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	359.0242	432.4854	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	426.1005	330.2135	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	1014.3102	850.0788	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	1044.9821	877.9171	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	564.4619	675.7435	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	435.7695	522.3422	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	395.8061	466.5637	0.0000	0.0000	0	0.00		
			<u>732,953</u>					<u>32,000.00</u>	<u>0.00</u>	<u>21 976 683.00</u>	<u>0.00</u>
<b>Total</b>			<b>842,013</b>					<b>33,427.00</b>	<b>19,652,288.80</b>	<b>32 886 338.00</b>	<b>133 922 101 605.90</b>
<b>Future</b>											
Dec 2018	EUUS	Future	55	1.1395	1.1285	1.1391	1.1391	5	56,955.00		
Jun 2019	EUUS	Future	582	1.1581	1.1472	0.0000	0.0000	582	6,754,110.00		
			<u>637</u>					<u>587.00</u>	<u>6,811,065.00</u>	<u>745 292.00</u>	<u>8 454 920 115.00</u>
<b>Total</b>			<b>637</b>					<b>587.00</b>	<b>6,811,065.00</b>	<b>745 292.00</b>	<b>8 454 920 115.00</b>

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<b>Future</b>											
Dec 2018	GBUS	Future	250	1.2788	1.2783	0.0000	0.0000	0	0.00		
			<u>250</u>					<u>0.00</u>	<u>0.00</u>	<u>170 239.00</u>	<u>2 190 649 727.00</u>
		<b>Total</b>	<b>250</b>					<b>0.00</b>	<b>0.00</b>	<b>170 239.00</b>	<b>2 190 649 727.00</b>
<b>Future</b>											
Dec 2018	ZAAD	Future	19,696	9.9931	10.1151	0.0000	0.0000	0	0.00		
Mar 2019	ZAAD	Future	324	10.1241	10.2490	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,934	10.2509	10.3789	0.0000	0.0000	0	0.00		
			<u>24,954</u>					<u>0.00</u>	<u>0.00</u>	<u>3 774 293.00</u>	<u>32 946 771 770.10</u>
		<b>Total</b>	<b>24,954</b>					<b>0.00</b>	<b>0.00</b>	<b>3 806 670.00</b>	<b>32 946 771 770.10</b>
<b>Future</b>											
Dec 2018	ZACA	Future	700	10.2885	10.4893	0.0000	0.0000	0	0.00		
Mar 2019	ZACA	Future	250	10.4281	10.6321	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	10.5728	10.7805	0.0000	0.0000	0	0.00		
			<u>1,200</u>					<u>0.00</u>	<u>0.00</u>	<u>140 963.00</u>	<u>1 391 359 940.10</u>
		<b>Total</b>	<b>1,200</b>					<b>0.00</b>	<b>0.00</b>	<b>140 963.00</b>	<b>1 391 359 940.10</b>
<b>Future</b>											
Dec 2018	ZADK	Future	140	2.0914	2.1218	0.0000	0.0000	0	0.00		
			<u>140</u>					<u>0.00</u>	<u>0.00</u>	<u>12 435.00</u>	<u>267 991 609.00</u>
		<b>Total</b>	<b>140</b>					<b>0.00</b>	<b>0.00</b>	<b>12 435.00</b>	<b>267 991 609.00</b>
<b>Future</b>											
Dec 2018	ZAEU	Future	121,441	15.5488	15.7856	15.6719	15.5652	374	5,840,687.00		
Mar 2019	ZAEU	Future	36,677	15.8611	16.1052	15.9964	15.9964	1,545	24,570,058.60		
Jun 2019	ZAEU	Future	4,942	16.1593	16.4100	0.0000	0.0000	534	8,662,975.20		
Sep 2019	ZAEU	Future	9,941	16.4871	16.7458	0.0000	0.0000	544	8,997,624.00		
Dec 2019	ZAEU	Future	277	16.7948	17.0578	0.0000	0.0000	554	9,342,129.70		
			<u>173,278</u>					<u>3,551.00</u>	<u>57,413,474.50</u>	<u>15 719 849.00</u>	<u>226 292 389 189.80</u>
<b>Option</b>											
Mar 2019	ZAEU	15.60 Put	462	400.2065	312.4440	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	480.5493	605.5308	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	1636.5734	1444.8474	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	25.4477	36.7243	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	426.8890	498.4718	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	112.1254	99.0432	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	781.6642	691.6564	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	385.2360	423.3116	0.0000	0.0000	0	0.00		
			<u>108,486</u>					<u>0.00</u>	<u>0.00</u>	<u>10 956 414.00</u>	<u>0.00</u>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
<b>Total</b>			<b>281,764</b>					<b>3,551.00</b>	<b>57,413,474.50</b>	26 676 263.00	226 292 389 189.80
<b>Future</b>											
Dec 2018	ZAFR	Future	1,266	13.7129	14.0147	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	14.2824	14.5998	0.0000	0.0000	0	0.00		
			<u>1,416</u>					<u>0.00</u>	<u>0.00</u>	621 258.00	6 677 568 092.80
<b>Total</b>			<b>1,416</b>					<b>0.00</b>	<b>0.00</b>	621 258.00	6 677 568 092.80
<b>Future</b>											
Dec 2018	ZAGB	Future	417,924	17.4496	17.8801	17.6213	17.4570	21	368,013.80		
Mar 2019	ZAGB	Future	12,349	17.7365	18.1758	17.7338	17.7338	481	8,567,610.60		
Jun 2019	ZAGB	Future	5,539	18.0092	18.4562	0.0000	0.0000	476	8,613,481.80		
Sep 2019	ZAGB	Future	11,480	18.3039	18.7621	0.0000	0.0000	484	8,896,307.20		
Dec 2019	ZAGB	Future	247	18.5859	19.0547	18.5721	18.5721	994	18,509,252.30		
			<u>447,539</u>					<u>2,456.00</u>	<u>44,954,665.70</u>	12 945 016.00	220 430 427 026.60
<b>Option</b>											
Dec 2018	ZAGB	19.30 Call	200	5.8553	13.2698	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	788.2268	574.4076	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1664.7591	1333.4444	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	110.6204	174.4633	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	95.4861	151.3284	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	35.7724	55.0044	0.0000	0.0000	0	0.00		
			<u>4,200</u>					<u>0.00</u>	<u>0.00</u>	1 779 113.00	0.00
<b>Total</b>			<b>451,739</b>					<b>2,456.00</b>	<b>44,954,665.70</b>	14 724 129.00	220 430 427 026.60
<b>Future</b>											
Dec 2018	ZAJY	Future	6,905	0.1205	0.1229	0.0000	0.0000	0	0.00		
			<u>6,905</u>					<u>0.00</u>	<u>0.00</u>	1 021 902.00	11 470 576 312.50
<b>Total</b>			<b>6,905</b>					<b>0.00</b>	<b>0.00</b>	1 021 902.00	11 470 576 312.50
<b>Future</b>											
Jun 2019	ZAKS	Future	2,166	0.1324	0.1356	0.0000	0.0000	0	0.00		
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	38 066.00	515 662 000.00
<b>Total</b>			<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	38 066.00	515 662 000.00
<b>Future</b>											
Dec 2018	ZAUM	Future	464	13.6458	13.9879	13.6999	13.6999	15	20,512,950.00		
Mar 2019	ZAUM	Future	10	13.8024	14.1495	0.0000	0.0000	0	0.00		
			<u>474</u>					<u>15.00</u>	<u>20,512,950.00</u>	153 991.00	178 262 150 030.00
<b>Total</b>			<b>474</b>					<b>15.00</b>	<b>20,512,950.00</b>	158 514.00	178 262 150 030.00

<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>		
<b>Future</b>											
Dec 2018	ZAUS	Future	736,608	13.6458	13.9879	13.7897	13.6355	102,869	1,412,614,150.60		
Mar 2019	ZAUS	Future	64,128	13.8024	14.1495	13.9246	13.7880	6,752	93,419,457.80		
Jun 2019	ZAUS	Future	18,736	13.9529	14.3041	13.9800	13.9525	12	167,622.50		
Sep 2019	ZAUS	Future	14,099	14.1145	14.4707	0.0000	0.0000	120	1,702,380.00		
Dec 2019	ZAUS	Future	9,600	14.2691	14.6291	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	3,966	14.4447	14.8087	0.0000	0.0000	0	0.00		
			<u>847,137</u>				<u>109,753.00</u>		<u>1,507,903,610.90</u>	<u>190 247 330.00</u>	<u>2 284 617 298 757.30</u>
<b>Option</b>											
Dec 2018	ZAUS	11.64 Put	2,764	0.1949	0.0795	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	11.75 Put	228,616	0.2865	0.1177	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	11.90 Put	11,300	0.4851	0.2005	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.00 Put	174,530	0.6893	0.2857	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.02 Put	5,500	0.7395	0.3066	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.10 Put	8,580	0.9798	0.4067	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.20 Put	7,300	1.3926	0.5785	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.25 Put	3,300	1.6602	0.6897	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.38 Put	39,589	2.3044	1.0876	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.50 Call	228,616	1148.7306	1489.5525	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.50 Put	26,400	2.9306	1.6525	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.63 Put	39,589	3.8737	2.4744	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.68 Put	10,000	4.3375	2.7256	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.75 Put	1,000	5.1116	3.1323	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.95 Put	500	8.5367	4.7866	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.00 Call	6,000	657.4299	993.2583	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.00 Put	89,580	11.6299	5.3583	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.05 Put	1,500	15.5843	6.0166	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.10 Put	11,300	20.5570	6.7770	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.20 Call	7,100	480.0146	796.5853	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.22 Put	5,500	37.6301	9.1427	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.25 Call	10,000	439.0292	747.7851	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.25 Put	17,800	43.2292	9.8851	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.32 Put	13,650	58.6851	12.7509	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.33 Put	135,000	61.1831	13.5345	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.45 Call	500	293.1198	564.1450	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.45 Put	4,080	97.3198	26.2450	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.50 Call	228,616	261.7223	521.5596	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.50 Put	29,800	115.9223	33.6596	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.60 Put	68,500	159.6915	53.0346	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.68 Put	13,150	201.8185	73.4787	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.70 Put	7,300	213.5359	79.3363	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.75 Put	700	244.2693	95.3437	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	13.79 Put	10,000	270.2785	109.5886	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	122.7703	301.2521	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	276.9703	113.3521	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	347.7587	155.5212	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	81.3771	217.5962	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	70.6282	193.8039	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	53,250	424.8282	205.9039	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	507.1012	265.7696	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	524.0895	278.6314	0.0000	0.0000	8,744	0.00
Dec 2018	ZAUS	14.13 Call	20,000	48.4444	143.0687	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	115,000	549.8701	298.4507	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	558.5396	305.1937	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	39.3727	120.7231	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	593.5727	332.8231	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	629.1349	361.4636	0.0000	0.0000	49,140	0.00
Dec 2018	ZAUS	14.25 Call	51,000	33.9022	106.6735	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	683.3605	406.1872	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	26.6284	87.1880	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	710.8284	429.2880	0.0000	0.0000	62,094	0.00
Dec 2018	ZAUS	14.35 Call	500	25.0600	82.8462	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	729.2600	444.9462	0.0000	0.0000	8,856	0.00
Dec 2018	ZAUS	14.39 Put	1,000	766.4547	476.8459	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	21.6036	72.8375	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	19.1828	65.6441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	16.0490	56.0806	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	870.2490	568.1806	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	879.7787	576.7196	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	11.9255	42.9934	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	966.1255	655.0934	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	11.5773	41.8579	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	11.2391	40.7513	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	1033.8937	717.7258	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	8.8723	32.8558	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	1102.0867	781.5202	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	7.6584	28.6170	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	1111.8584	790.7170	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	6.6145	24.9072	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	1160.8145	837.0072	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	6.2391	23.5579	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	5.8856	22.2794	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	5.7168	21.6660	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	1259.1448	930.9372	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	15.00 Call	101,333	3.7092	14.2251	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	1357.9092	1026.3251	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	3.6229	13.8305	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	3.0103	11.0413	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	2.9425	10.7348	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	2.6290	9.3246	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	2.3539	8.1005	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1556.5539	1220.2005	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1606.3120	1269.1381	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1656.0989	1318.2165	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	1.6418	5.0280	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	1.3698	4.0467	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	1.3170	3.8729	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	1.2665	3.7075	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1855.4665	1515.8075	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	1.2422	3.6280	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	1.0667	3.0572	0.0000	0.0000	31,047	0.00
Dec 2018	ZAUS	15.60 Call	500	1.0469	2.9934	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	1.0276	2.9312	0.0000	0.0000	4,428	0.00
Dec 2018	ZAUS	15.70 Call	7,500	0.8721	2.4337	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	0.8269	2.2903	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	2194.8839	1853.9427	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	0.6725	1.8073	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	0.6090	1.6115	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	0.5272	1.3630	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	0.4454	1.1190	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	0.4260	1.0618	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.3903	0.9578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.3687	0.8953	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.2409	0.5411	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.1812	0.3859	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.1462	0.3354	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.1748	1.6865	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	18.9820	13.3282	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	59.0311	40.4104	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	64.3811	42.8596	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	6,332	114.7381	0.0000	0.0000	0.0000	12,664	0.00
Mar 2019	ZAUS	12.90 Put	16,000	137.3584	82.2960	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	142.2335	85.5596	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	162.9519	99.5732	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	176.9080	109.1463	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	198.2004	123.6496	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	13.15 Put	10,125	208.2865	130.2698	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	244.1974	154.1547	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	275.4704	175.3470	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	287.7826	183.7840	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	304.6909	195.4626	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	331.1075	214.1498	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	349.4173	228.0441	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	373.0827	246.1787	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	9,570	397.6094	265.1624	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,332	407.6576	0.0000	0.0000	0.0000	6,332	0.00
Mar 2019	ZAUS	13.68 Put	14,200	438.6097	297.3125	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	449.1937	305.6882	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	459.9096	314.2025	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	476.2276	327.2263	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	498.4396	345.0628	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	533.5751	372.8245	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	539.5699	377.5670	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	563.8543	396.8709	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	22,406	626.6699	447.4205	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	652.6085	468.5439	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	363.1344	508.2978	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	760.7344	558.7978	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	817.2670	607.6708	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	334.0441	469.6787	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	867.9935	651.9408	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	919.8316	697.5581	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	934.8408	710.8315	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	942.3747	717.5074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	292.3324	0.0000	0.0000	0.0000	12,664	0.00
Mar 2019	ZAUS	14.48 Call	1,000	287.5106	407.1901	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	282.7686	400.7726	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	980.3686	751.2726	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	1003.4063	771.8316	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	1026.6201	792.6155	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	1097.2984	856.2563	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	1169.4376	921.7428	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	220.6953	315.8678	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1226.4941	973.8785	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1234.7087	981.4095	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1242.9391	988.9607	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1251.1850	996.5320	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	187.5397	269.8531	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	15.04 Put	63,500	1419.1865	1152.0357	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1470.6433	1200.0728	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1487.8947	1216.2163	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1496.5385	1224.3134	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	163.6353	236.3576	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1548.6526	1273.2215	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1557.3741	1281.4251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	157.1018	227.3823	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1662.0286	1381.0289	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	135.0720	198.0360	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	129.5548	190.6490	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	128.4798	189.2069	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	124.2786	183.5662	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	122.2318	180.8155	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	120.2231	178.1111	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	108.8953	161.9132	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	96.3404	143.7583	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	94.7905	141.5076	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	90.3034	134.9825	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	84.0050	125.7968	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	82.6731	123.8491	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	74.5671	111.9664	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	65.2808	98.2820	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	61.3695	92.4951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	52.7380	79.6269	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	51.9696	78.4552	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	40.1750	60.3957	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	39.8957	59.9677	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	38.5353	57.9623	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	36.9750	55.8087	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	36.7231	55.4593	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	36.4725	55.1138	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	33.3982	50.8561	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	31.8742	48.7377	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	27.9682	43.2879	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	20.0578	32.7943	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	13.0518	26.7660	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.2714	6.7662	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	100.8892	65.6318	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	195.7715	134.4658	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	262.3295	184.1959	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	268.7278	189.1444	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	13.24 Put	30,000	353.3482	255.6798	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.83 Put	25,000	640.8487	484.8433	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.88 Put	5,035	669.2467	509.1601	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.98 Call	1,000	700.7941	883.7564	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.42 Call	30	545.5094	694.1939	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	498.3285	635.9947	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.63 Put	8,203	1161.5956	944.7509	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	436.3524	557.9847	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,000	375.0930	480.0974	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	282.6446	367.0455	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	255.9012	334.7355	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	239.6483	313.8663	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	229.4604	300.7546	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	102.1873	126.6397	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	12.7548	11.4572	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	196.2537	130.8656	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	771.9191	616.7692	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	806.5622	647.3553	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	877.9172	710.7214	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	908.2114	737.9692	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	951.3066	776.9428	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	1027.1777	845.9224	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	1289.9969	1086.1768	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1784.8923	1546.2368	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1927.9315	1682.0880	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	423.9018	525.1214	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	256.4668	310.6977	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	229.6803	274.4097	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	217.8743	259.5712	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	213.6769	254.2929	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	196.6098	232.8231	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	182.9768	223.3421	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	169.1533	215.5395	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	165.8509	213.6739	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	119.8851	162.6051	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	94.2066	62.6678	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	697.5472	571.8255	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	370.7456	441.7410	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	161.5397	212.0009	0.0000	0.0000	0	0.00		
			<u>7,864,448</u>					<u>195,969.00</u>	<u>0.00</u>	<u>62 246 894.00</u>	<u>0.00</u>
	<b>Total</b>		<b>8,711,585</b>					<b>305,722.00</b>	<b>1,507,903,610.90</b>	<b>252 494 224.00</b>	<b>2 284 617 298 757.30</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		10,458,944				375,758.00	1 657 248 054.90	345,378,164	3,166,060,621,127.73
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