



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 30-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Mar 2019	CAHF	Future	10,000	98.4400	78.2500	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>	<b>10 000.00</b>	<b>2 531 700.00</b>
<b>Future</b>											
Nov 2018	DAEU	Future	0	15.6273	15.5244	0.0000	0.0000	37	578,210.10		
			<u>0</u>					<u>37.00</u>	<u>578,210.10</u>	<u>801 473.00</u>	<u>11 968 313 482.50</u>
<b>Option</b>											
Dec 2018	DAEU	15.83 Put	32,000	308.9859	390.7750	0.0000	0.0000	0	0.00		
Jan 2019	DAEU	15.85 Put	13,000	339.7183	421.8441	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	16,200	1235.7173	1319.0296	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	247.4196	237.3021	0.0000	0.0000	0	0.00		
			<u>123,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 510 587.00</u>	<u>0.00</u>
		<b>Total</b>	<b>123,600</b>					<b>37.00</b>	<b>578,210.10</b>	<b>2 312 060.00</b>	<b>11 968 313 482.50</b>
<b>Future</b>											
Nov 2018	DAGB	Future	0	17.5619	17.4268	0.0000	0.0000	13	228,304.70		
Jan 2019	DAGB	Future	27	17.7421	17.5966	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	24	17.9179	17.7706	0.0000	0.0000	0	0.00		
			<u>51</u>					<u>13.00</u>	<u>228,304.70</u>	<u>54 031.00</u>	<u>890 464 388.50</u>
		<b>Total</b>	<b>51</b>					<b>13.00</b>	<b>228,304.70</b>	<b>261 344.00</b>	<b>890 464 388.50</b>
<b>Future</b>											
Nov 2018	DAUS	Future	0	13.7820	13.6326	0.0000	0.0000	1,472	20,284,244.00		
Dec 2018	DAUS	Future	500	13.7869	13.6343	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	13.7950	13.6426	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	1,760	13.8263	13.6733	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.8296	13.6766	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	150	13.8513	13.6979	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	20	13.8530	13.6996	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	51	13.8680	13.7144	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.8764	13.7226	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,249	13.8780	13.7243	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.9001	13.7462	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.9036	13.7496	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	13.9207	13.7665	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	4,705	13.9258	13.7716	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	13.9344	13.7801	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.9726	13.8178	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	13.9761	13.8212	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	13.9830	13.8280	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.0316	13.8759	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.0854	13.9289	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.1392	13.9820	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.1930	14.0352	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.2485	14.0901	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3013	14.1423	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3523	14.1929	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.4086	14.2486	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.4669	14.3064	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.5217	14.3606	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.5802	14.4185	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.6388	14.4765	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.6898	14.5269	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.7540	14.5904	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.8598	14.6951	0.0000	0.0000	0	0.00		
			<u>107,525</u>					<u>1,472.00</u>	<u>20,284,244.00</u>	<u>10 911 127.00</u>	<u>133 942 385 849.90</u>
<b>Option</b>											
Dec 2018	DAUS	15.45 Put	23,000	1666.5352	1819.1628	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.75 Put	65,000	98.7227	195.8076	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.90 Put	30,000	185.2695	310.0406	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.30 Put	30,000	526.7283	674.9873	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.90 Put	30,000	1116.0299	1268.3294	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.30 Put	30,000	1515.1332	1667.5841	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.50 Put	25,000	38.1855	80.9495	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.75 Put	125	110.4044	203.5145	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.07 Call	125	41.9463	24.0594	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.50 Call	125	6.7207	4.2374	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.65 Put	20,000	94.2093	164.8987	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.86 Put	7,500	192.3854	300.3488	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.08 Call	7,500	2.3235	1.7606	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.69 Call	20,000	0.4579	0.3948	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	35,000	261.2820	369.5822	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	313.1350	428.6837	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	557.4043	693.3610	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	1105.2816	1253.7758	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1496.5469	1648.1444	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	23.9560	52.0698	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	38.2035	75.9239	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	28.3706	20.1656	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	22.3162	15.6045	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	23.1621	38.9959	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	237.3631	334.5363	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	120.9508	96.8795	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	537.8821	668.3111	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	1160.7343	1309.9072	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	1.0236	1.1601	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	1.1782	1.2868	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	146.5179	218.2475	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	223.0973	179.2941	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	105.8591	86.6590	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	185.7545	263.5936	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	177.3406	144.1320	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	71.9964	59.6646	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	16.2811	26.3207	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	64.3194	94.0659	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	576.0931	688.6866	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	611.3411	726.3015	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	204.7276	171.6160	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	81.7484	68.6805	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	53.0310	44.1129	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	105.0007	136.7818	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	628.1287	732.5482	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	661.8655	768.4949	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	261.6852	224.7189	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	129.4107	111.5582	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	92.0103	79.3567	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	482.4538	566.8850	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	550.0073	641.4093	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	143.5267	179.3345	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	677.5172	777.8785	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	710.1812	812.6138	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	314.4311	277.0278	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	176.0518	155.1817	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	15.79 Call	250	132.9331	117.6116	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	435.6618	0.0000	0.0000	0.0000	100	0.00
Apr 2019	DAUS	14.35 Call	100	425.4904	0.0000	0.0000	0.0000	100	0.00
Apr 2019	DAUS	13.00 Put	3,000	180.4808	219.0398	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	886.5110	795.2428	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	719.7151	816.7338	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	751.5169	850.4471	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	359.3534	322.0035	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	217.7927	195.1711	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	172.6116	155.1886	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	213.8984	254.1868	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	755.5724	850.1963	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	786.7097	883.1310	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	397.0118	360.2430	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	253.5057	229.9430	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	205.4496	186.9506	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1122.6101	1232.1594	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	146.2996	137.5383	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	240.3902	282.6943	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	786.4676	879.0920	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	817.1987	911.5060	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	429.7600	392.7851	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	285.4814	260.5387	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	236.9585	216.8009	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	400.5533	464.4231	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	231.4079	212.1228	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	268.9000	313.0225	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	818.0602	908.7132	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	848.3744	940.6005	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	467.9924	430.5502	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	322.2493	296.0242	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	273.3207	251.5516	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	1004.0378	1102.2023	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	315.6415	290.7355	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	293.5144	338.8952	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	844.0841	933.2579	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	874.2707	964.7180	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	495.0562	457.2716	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	350.3958	323.0897	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	300.6964	277.8082	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	144.4886	130.2973	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	316.3473	362.7780	0.0000	0.0000	0	0.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Sep 2019	DAUS	14.20 Put	250	866.8467	954.9689	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	896.8049	986.0195	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	525.7546	486.4786	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	380.6497	352.3101	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	328.6784	304.6190	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	338.6765	385.9259	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	888.6415	976.0618	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	918.3993	1006.7437	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	549.2713	509.4435	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	406.4093	377.5744	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	355.4383	331.4433	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	357.6261	404.9995	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	906.8688	993.3198	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	936.4427	1024.1833	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	572.8043	533.5453	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	431.2629	402.4463	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	380.8203	359.0242	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	376.0800	426.1005	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	926.7082	1014.3102	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	956.1231	1044.9821	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	601.4501	564.4619	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	463.0125	435.7695	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	415.0765	395.8061	0.0000	0.0000	0	0.00		
			<u>727,682</u>					<u>200.00</u>	<u>0.00</u>	<u>21 976 883.00</u>	<u>0.00</u>
<b>Total</b>			<b>835,207</b>					<b>1,672.00</b>	<b>20,284,244.00</b>	<b>32 888 010.00</b>	<b>133 942 385 849.90</b>
<b>Future</b>											
Dec 2018	EUUS	Future	55	1.1348	1.1395	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1536	1.1581	0.0000	0.0000	0	0.00		
			<u>637</u>					<u>0.00</u>	<u>0.00</u>	<u>745 292.00</u>	<u>8 454 920 115.00</u>
<b>Total</b>			<b>637</b>					<b>0.00</b>	<b>0.00</b>	<b>745 292.00</b>	<b>8 454 920 115.00</b>
<b>Future</b>											
Dec 2018	GBUS	Future	250	1.2748	1.2788	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	10.0686	9.9931	0.0000	0.0000	0	0.00		
Mar 2019	ZAAD	Future	324	10.2009	10.1241	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,934	10.3297	10.2509	0.0000	0.0000	0	0.00		

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			24,954					0.00	0.00	3 774 293.00	32 946 771 770.10
	<b>Total</b>		<b>24,954</b>					<b>0.00</b>	<b>0.00</b>	3 806 670.00	32 946 771 770.10
<b>Future</b>											
	Dec 2018 ZACA	Future	700	10.3584	10.2885	0.0000	0.0000	0	0.00		
	Mar 2019 ZACA	Future	250	10.4999	10.4281	0.0000	0.0000	0	0.00		
	Sep 2019 ZACA	Future	250	10.6471	10.5728	0.0000	0.0000	0	0.00		
			1,200					0.00	0.00	140 963.00	1 391 359 940.10
	<b>Total</b>		<b>1,200</b>					<b>0.00</b>	<b>0.00</b>	140 963.00	1 391 359 940.10
<b>Future</b>											
	Dec 2018 ZADK	Future	140	2.1065	2.0914	0.0000	0.0000	0	0.00		
			140					0.00	0.00	12 435.00	267 991 609.00
	<b>Total</b>		<b>140</b>					<b>0.00</b>	<b>0.00</b>	12 435.00	267 991 609.00
<b>Future</b>											
	Dec 2018 ZAEU	Future	121,441	15.6576	15.5488	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	Future	37,087	15.9749	15.8611	15.9801	15.9801	483	7,717,191.10		
	Jun 2019 ZAEU	Future	4,942	16.2768	16.1593	0.0000	0.0000	0	0.00		
	Sep 2019 ZAEU	Future	9,050	16.6074	16.4871	0.0000	0.0000	891	14,795,055.00		
	Dec 2019 ZAEU	Future	277	16.9179	16.7948	0.0000	0.0000	0	0.00		
			172,797					1,374.00	22,512,246.10	15 721 223.00	226 314 901 435.90
<b>Option</b>											
	Mar 2019 ZAEU	15.60 Put	462	349.6379	400.2065	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	16.00 Call	650	527.3716	480.5493	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	17.33 Put	462	1539.1378	1636.5734	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	19.65 Call	462	28.3009	25.4477	0.0000	0.0000	0	0.00		
	Sep 2019 ZAEU	18.60 Call	55,000	446.3639	426.8890	0.0000	0.0000	0	0.00		
	Dec 2019 ZAEU	13.73 Put	17,150	95.8083	112.1254	0.0000	0.0000	0	0.00		
	Dec 2019 ZAEU	16.15 Put	17,150	709.9017	781.6642	0.0000	0.0000	0	0.00		
	Dec 2019 ZAEU	20.62 Call	17,150	388.1223	385.2360	0.0000	0.0000	0	0.00		
			108,486					0.00	0.00	10 956 414.00	0.00
	<b>Total</b>		<b>281,283</b>					<b>1,374.00</b>	<b>22,512,246.10</b>	26 677 637.00	226 314 901 435.90
<b>Future</b>											
	Dec 2018 ZAFR	Future	1,266	13.8200	13.7129	0.0000	0.0000	0	0.00		
	Jun 2019 ZAFR	Future	150	14.3975	14.2824	0.0000	0.0000	0	0.00		
			1,416					0.00	0.00	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>											

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Dec 2018	ZAGB	Future	417,924	17.5901	17.4496	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	Future	12,349	17.8833	17.7365	17.8500	17.8500	40	714,000.00	
Jun 2019	ZAGB	Future	5,539	18.1593	18.0092	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	11,480	18.4564	18.3039	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	247	18.7400	18.5859	0.0000	0.0000	0	0.00	
			<u>447,539</u>					<u>40.00</u>	<u>714,000.00</u>	<u>12 945 056.00</u>
<b>Option</b>										<u>220 431 141 026.60</u>
Dec 2018	ZAGB	19.30 Call	200	6.3610	5.8553	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	18.00 Put	500	703.4689	788.2268	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	274.8376	0.0000	0.0000	0.0000	4,000	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	1543.7423	1664.7591	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	123.6748	110.6204	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	106.4036	95.4861	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	36.8171	35.7724	0.0000	0.0000	0	0.00	
			<u>6,700</u>					<u>4,000.00</u>	<u>0.00</u>	<u>1 783 113.00</u>
	<b>Total</b>		<b>454,239</b>					<b>4,040.00</b>	<b>714,000.00</b>	<b>14 728 169.00</b>
										<b>220 431 141 026.60</b>
<b>Future</b>										
Dec 2018	ZAJY	Future	6,905	0.1216	0.1205	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>
	<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	0.1322	0.1324	0.0000	0.0000	0	0.00	
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</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	ZAUM	Future	439	13.7983	13.6458	0.0000	0.0000	90	129,493,500.00	
Mar 2019	ZAUM	Future	10	13.9570	13.8024	0.0000	0.0000	0	0.00	
			<u>449</u>					<u>90.00</u>	<u>129,493,500.00</u>	<u>154 081.00</u>
	<b>Total</b>		<b>449</b>					<b>90.00</b>	<b>129,493,500.00</b>	<b>158 604.00</b>
										<b>178 391 643 530.00</b>
<b>Future</b>										
Dec 2018	ZAUS	Future	729,611	13.7983	13.6458	13.8121	13.6685	41,199	566,449,954.30	
Mar 2019	ZAUS	Future	65,061	13.9570	13.8024	13.9045	13.8459	6,773	94,071,951.80	
Jun 2019	ZAUS	Future	18,736	14.1097	13.9529	0.0000	0.0000	191	2,682,117.50	
Sep 2019	ZAUS	Future	14,099	14.2731	14.1145	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	Future	9,600	14.4291	14.2691	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	3,966	14.6067	14.4447	0.0000	0.0000	0	0.00	
			<u>841,073</u>					<u>48,163.00</u>	<u>663,204,023.60</u>	<u>190 295 493.00</u>
										<b>2 285 280 502 780.90</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>	
<b>Option</b>									
Dec 2018	ZAUS	11.64 Put	2,764	0.1094	0.1949	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.1586	0.2865	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.2638	0.4851	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.3709	0.6893	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.3972	0.7395	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	0.5224	0.9798	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	0.7367	1.3926	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	0.8752	1.6602	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	1.3719	2.3044	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1300.1092	1148.7306	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	1.8092	2.9306	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	2.4012	3.8737	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	2.6908	4.3375	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	3.1716	5.1116	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	5.2594	8.5367	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	804.3239	657.4299	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	89,580	6.0239	11.6299	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	6.9276	15.5843	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	8.0010	20.5570	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	612.9104	480.0146	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	16.3616	37.6301	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	567.6029	439.0292	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	19.3029	43.2292	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	27.8210	58.6851	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	29.2466	61.1831	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	399.4268	293.1198	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	51.1268	97.3198	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	361.4657	261.7223	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	63.1657	115.9223	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	93.1457	159.6915	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	123.2432	201.8185	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	131.6538	213.5359	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	154.2537	244.2693	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	173.9565	270.2785	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	177.4061	122.7703	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	179.1061	276.9703	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	238.2006	347.7587	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	119.1384	81.3771	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	103.6656	70.6282	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	53,250	305.3656	424.8282	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	379.5342	507.1012	0.0000	0.0000	0	0.00



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Dec 2018	ZAUS	14.12 Put	4,372	395.1086	524.0895	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	71.2809	48.4444	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	115,000	418.8901	549.8701	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	426.9248	558.5396	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	57.8713	39.3727	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	459.5713	593.5727	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	492.9808	629.1349	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	49.7444	33.9022	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	544.3797	683.3605	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	38.9014	26.6284	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	570.6014	710.8284	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	36.5589	25.0600	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	588.2589	729.2600	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	623.9665	766.4547	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	31.2698	21.6036	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	27.5698	19.1828	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	22.7953	16.0490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	724.4953	870.2490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	733.8213	879.7787	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	16.8921	11.9255	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	818.5921	966.1255	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	16.3944	11.5773	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	15.9115	11.2391	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	885.4055	1033.8937	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	12.5344	8.8723	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	952.8309	1102.0867	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	10.8061	7.6584	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	962.5061	1111.8584	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	9.3226	6.6145	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	1011.0226	1160.8145	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	8.7900	6.2391	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	8.2886	5.8856	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	8.0493	5.7168	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	1108.6561	1259.1448	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	5.2108	3.7092	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	1206.9108	1357.9092	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	5.0635	3.6229	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	4.0333	3.0103	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	3.9210	2.9425	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	3.4077	2.6290	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	2.9664	2.3539	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1404.6664	1556.5539	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.25 Put	500	1454.3397	1606.3120	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1504.0542	1656.0989	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	2.0130	1.6418	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	1.6562	1.3698	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	1.5874	1.3170	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	1.5220	1.2665	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1703.2220	1855.4665	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	1.4905	1.2422	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	1.2649	1.0667	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	1.2396	1.0469	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	1.2150	1.0276	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	1.0181	0.8721	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	0.9612	0.8269	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	2042.4834	2194.8839	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	0.7693	0.6725	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	0.6912	0.6090	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	0.5917	0.5272	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	0.4933	0.4454	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	0.4702	0.4260	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.4279	0.3903	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.4024	0.3687	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.2564	0.2409	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.1995	0.1812	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.1659	0.1462	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	1.7720	2.1748	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	15.5749	18.9820	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	47.1030	59.0311	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	49.9679	64.3811	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	6,332	88.8718	114.7381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	107.3872	137.3584	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	111.4049	142.2335	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	128.5707	162.9519	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	140.2161	176.9080	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	157.7478	198.2004	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	165.7107	208.2865	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	194.2611	244.1974	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	221.1961	275.4704	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	231.8688	287.7826	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	246.5859	304.6909	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	269.7048	331.1075	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	285.8141	349.4173	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	306.7382	373.0827	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.60 Put	9,570	328.5277	397.6094	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,332	337.4868	407.6576	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	365.1865	438.6097	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	374.6943	449.1937	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	384.3382	459.9096	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	399.0547	476.2276	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	419.1512	498.4396	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	450.2901	533.5751	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	455.5956	539.5699	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	477.1431	563.8543	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	22,406	534.1295	626.6699	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	558.1547	652.6085	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	416.0212	363.1344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	659.0212	760.7344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	712.1671	817.2670	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	382.7187	334.0441	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	760.0613	867.9935	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	809.1957	919.8316	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	823.4543	934.8408	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	830.6209	942.3747	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	334.8082	292.3324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	329.2560	287.5106	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	323.7964	282.7686	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	866.7964	980.3686	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	888.7766	1003.4063	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	910.9606	1026.6201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	978.6709	1097.2984	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	1048.0675	1169.4376	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	252.1966	220.6953	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1103.1142	1226.4941	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1111.0525	1234.7087	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1119.0087	1242.9391	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1126.9800	1251.1850	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	213.8480	187.5397	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1289.9551	1419.1865	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1340.0602	1470.6433	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1356.8759	1487.8947	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1365.3060	1496.5385	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	186.1586	163.6353	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1416.1678	1548.6526	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1424.6899	1557.3741	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	178.7776	157.1018	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	15.32 Put	262,812	1527.9576	1662.0286	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	154.3895	135.0720	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	148.0203	129.5548	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	146.7785	128.4798	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	141.9261	124.2786	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	139.5649	122.2318	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	137.2435	120.2231	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	124.1554	108.8953	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	109.6510	96.3404	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	107.8590	94.7905	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	102.6730	90.3034	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	95.3970	84.0050	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	93.8590	82.6731	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	84.4962	74.5671	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	73.7800	65.2808	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	69.2698	61.3695	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	59.2904	52.7380	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	58.3862	51.9696	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	44.9836	40.1750	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	44.6761	39.8957	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	43.1756	38.5353	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	41.4569	36.9750	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	41.1787	36.7231	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	40.9028	36.4725	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	37.5156	33.3982	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	35.8367	31.8742	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	31.5326	27.9682	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	23.3321	20.0578	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	16.4728	13.0518	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.3555	8.2714	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	82.3249	100.8892	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	163.3189	195.7715	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	221.6762	262.3295	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	227.3319	268.7278	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	302.7096	353.3482	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	561.8044	640.8487	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	588.2302	669.2467	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	772.5956	700.7941	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	601.4211	545.5094	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	549.2841	498.3285	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	1054.2715	1161.5956	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	479.8761	436.3524	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	15.10 Call	1,000	411.7507	375.0930	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	311.0098	282.6446	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	281.2784	255.9012	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	263.1975	239.6483	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	251.8611	229.4604	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	107.0938	102.1873	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	11.9558	12.7548	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	161.0844	196.2537	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	691.8219	771.9191	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	724.5842	806.5622	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	792.2612	877.9172	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	821.2869	908.2114	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	862.7181	951.3066	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	935.3928	1027.1777	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	1187.9385	1289.9969	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1668.0794	1784.8923	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1808.5368	1927.9315	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	459.4192	423.9018	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	271.8292	256.4668	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	242.4021	229.6803	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	229.4410	217.8743	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	224.8343	213.6769	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	206.1074	196.6098	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	197.8471	182.9768	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	187.0263	169.1533	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	183.4257	165.8509	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	133.1749	119.8851	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	71.9334	94.2066	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	627.8234	697.5472	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	390.4900	370.7456	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	177.3174	161.5397	0.0000	0.0000	0	0.00		
			<u>7,864,448</u>					<u>0.00</u>	<u>0.00</u>	<u>62 246 894.00</u>	<u>0.00</u>
	<b>Total</b>		<b>8,705,521</b>					<b>48,163.00</b>	<b>663,204,023.60</b>	<b>252 542 387.00</b>	<b>2 285 280 502 780.90</b>
<b>Grand Total</b>			<b>10,448,018</b>					<b>55,389.00</b>	<b>837 014 528.50</b>	<b>345,433,553</b>	<b>3,166,897,635,656.23</b>