



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 25-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Nov 2018	DAEU	Future	37	16.6901	16.6288	0.0000	0.0000	0	0.00		
			<u>37</u>					<u>0.00</u>	<u>0.00</u>	<u>801 399.00</u>	<u>11 967 156 360.40</u>
<b>Option</b>											
Aug 2019	DAEU	17.01 Put	31,200	733.6027	756.7528	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	561.8148	538.2620	0.0000	0.0000	0	0.00		
			<u>93,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 390 587.00</u>	<u>0.00</u>
		<b>Total</b>	<b>93,637</b>					<b>0.00</b>	<b>0.00</b>	<b>2 191 986.00</b>	<b>11 967 156 360.40</b>
<b>Future</b>											
Nov 2018	DAGB	Future	13	18.7752	18.8187	0.0000	0.0000	0	0.00		
			<u>13</u>					<u>0.00</u>	<u>0.00</u>	<u>53 954.00</u>	<u>889 067 608.60</u>
		<b>Total</b>	<b>13</b>					<b>0.00</b>	<b>0.00</b>	<b>261 267.00</b>	<b>889 067 608.60</b>
<b>Future</b>											
Oct 2018	DAUS	Future	0	14.5838	14.4875	0.0000	0.0000	70	1,019,200.00		
Oct 2018	DAUS	Future	225	14.5751	14.4910	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.5715	14.4930	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,426	14.5734	14.4949	0.0000	0.0000	171	2,484,236.70		
Nov 2018	DAUS	Future	55	14.5753	14.4968	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.5978	14.5189	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.6015	14.5226	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.6034	14.5244	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.6146	14.5354	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	166	14.6259	14.5465	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.6277	14.5484	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	5,946	14.6296	14.5503	0.0000	0.0000	98	1,431,956.40		
Dec 2018	DAUS	Future	500	14.6429	14.5633	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.6524	14.5726	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	2,710	14.6883	14.6081	0.0000	0.0000	98	1,437,787.40		
Jan 2019	DAUS	Future	55	14.6922	14.6119	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	55	14.7463	14.6646	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	920	14.7482	14.6664	0.0000	0.0000	100	1,473,270.00		
Feb 2019	DAUS	Future	70	14.7725	14.6906	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,787	14.8006	14.7185	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.8512	14.7687	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.8550	14.7724	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.8625	14.7798	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.9149	14.8319	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.9732	14.8901	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	15.0315	14.9482	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	15.0899	15.0067	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	15.1513	15.0685	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.2088	15.1264	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.2648	15.1827	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.3320	15.2483	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.3971	15.3118	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.4579	15.3712	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.5230	15.4347	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.5880	15.4982	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.6447	15.5535	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.7161	15.6232	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.8336	15.7379	0.0000	0.0000	0	0.00		
			<u>119,939</u>					<u>537.00</u>	<u>7,846,450.50</u>	<u>10 752 963.00</u>	<u>131 705 534 313.20</u>

**Option**

Oct 2018	DAUS	13.00 Put	500	0.0203	0.1170	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	4.3663	9.1063	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	651.9959	581.3634	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	10.5281	19.6417	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	39.2938	61.9411	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.34 Put	171	57.5021	86.3812	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.44 Call	171	218.8281	176.9910	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	212.1325	171.1106	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	98.2798	79.3809	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	304.4985	369.3606	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	43.2613	31.7138	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	28.8041	19.6134	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	0.2964	0.1968	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	0.0627	0.0419	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.00 Put	0	15.8009	28.5116	0.0000	0.0000	20,000	0.00
Nov 2018	DAUS	14.40 Put	20,000	90.5319	0.0000	0.0000	0.0000	20,000	0.00
Nov 2018	DAUS	11.90 Put	1,880	0.0000	0.0560	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	8.9567	17.3848	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Nov 2018	DAUS	16.81 Call	1,880	0.6320	0.6796	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	141.6688	174.9999	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	311.6746	273.4047	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0027	0.0192	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.0005	0.0966	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1389.5759	1313.5444	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.32 Call	15,000	423.1588	376.8133	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	220.9559	195.4357	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	213.6276	188.9290	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.78 Call	30,000	199.6075	176.5004	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	165.1823	146.0726	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	451.7823	511.6726	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	4.9411	7.8057	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	53.7819	69.0950	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	61.5550	79.2310	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	662.8057	610.0329	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	167.6262	200.2735	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	515.9219	471.0592	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	273.4402	248.1678	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	266.4440	241.7985	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	16.7251	16.4267	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	5.4080	6.1478	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	944.9987	1012.4181	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	83.5198	105.5885	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	205.1947	240.5936	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	528.7747	585.0541	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	825.3075	890.3700	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	48.6878	64.5741	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	85.1814	107.1332	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	238.8283	219.0033	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	118.1409	108.3831	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	113.5529	138.5726	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	244.8418	282.3814	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	566.7438	621.9509	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	854.0560	917.2874	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	18.8935	25.9089	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	25.7468	34.5653	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	431.2021	400.1490	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	394.2550	365.6483	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	20.8519	23.3769	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	109.3746	129.4261	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	704.5566	657.3431	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	14.25 Put	250	248.0318	281.8068	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	628.3451	681.6026	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	55.4598	51.9098	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	30.6453	28.1566	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	21.0236	23.3345	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	42.0701	45.6791	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	288.8355	318.2185	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	309.3187	339.7367	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	734.5916	685.8603	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	418.8246	386.9771	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	325.0444	299.3393	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	59.7097	65.7580	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	333.8797	363.7886	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	355.1002	385.8774	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	762.8929	716.0918	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	470.0675	437.3839	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	373.8071	347.0930	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	295.5638	318.2560	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	76.9970	85.6828	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	375.7224	404.4639	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	397.3320	426.9434	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	789.7724	743.8314	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	511.9863	478.6661	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	419.1104	391.1907	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	93.8211	103.2066	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1609.3656	1540.7165	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	412.7306	440.8536	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	434.6849	463.6377	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	813.8619	769.2189	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	550.0640	516.4981	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	463.1962	434.2759	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	107.1655	120.0823	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	447.9908	473.8698	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	468.7565	496.9178	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	838.3805	794.5922	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	586.1192	552.7584	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	500.4529	471.1090	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	725.4868	760.2969	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	354.4730	333.1988	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	116.8429	131.8853	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	477.0285	500.8395	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	497.9733	524.0466	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	DAUS	15.17 Call	500	857.3598	814.2132	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	614.4720	581.0264	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	531.6102	502.0837	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	226.0390	243.2893	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	518.2848	489.5820	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	126.0236	143.0671	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	507.8711	529.8790	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	528.9700	551.5285	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	885.1467	841.5539	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	649.9524	615.5602	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	569.5616	538.6460	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	646.8214	675.1726	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	631.2362	598.1491	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	136.6962	151.2522	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	534.0059	555.2765	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	555.1905	576.9401	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	902.4038	859.6239	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	675.4260	641.2665	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	595.2331	563.7312	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	313.4336	302.4872	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	152.5711	157.2695	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	557.8345	578.5935	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	579.2936	600.2461	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	926.8540	884.4994	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	705.1605	671.1634	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	622.6577	590.8887	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	165.3777	170.8602	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	580.8977	602.3871	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	602.3568	624.2265	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	944.1513	903.0849	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	729.6205	696.1332	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	648.5204	617.8402	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	184.0895	187.6947	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	602.7163	623.9419	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	624.5105	646.0454	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	972.7377	931.4620	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	761.7422	727.8604	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	682.0230	651.4635	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	198.6724	206.1327	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	623.0889	645.2645	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	645.0906	667.4955	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	1001.3531	960.1468	0.0000	0.0000	0	0.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Dec 2019	DAUS	17.05	Call	250	796.0353	761.7317	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.44	Call	250	717.9692	687.2627	0.0000	0.0000	0	0.00
				849,709					40,000.00	0.00
				<b>Total</b>	<b>969,648</b>				<b>40,537.00</b>	<b>7,846,450.50</b>
										31 827 379.00
										131 705 534 313.20
<b>Future</b>										
Dec 2018	EUUS		Future	40	1.1422	1.1441	0.0000	0.0000	0	0.00
				40					0.00	0.00
				<b>Total</b>	<b>40</b>				<b>0.00</b>	<b>0.00</b>
										744 445.00
										8 445 126 755.00
<b>Future</b>										
Dec 2018	GBUS		Future	250	1.2842	1.2942	1.2940	1.2875	250	3,231,750.00
				250					250.00	3,231,750.00
				<b>Total</b>	<b>250</b>				<b>250.00</b>	<b>3,231,750.00</b>
										169 671.00
										2 183 289 974.00
<b>Future</b>										
Dec 2018	JYZA		Future	0	7.6527	7.6930	0.0000	0.0000	8,000	79,362,953.28
				0					8,000.00	79,362,953.28
				<b>Total</b>	<b>0</b>				<b>8,000.00</b>	<b>79,362,953.28</b>
										180 549.00
										1 793 967 618.61
<b>Future</b>										
Dec 2018	ZAAD		Future	33,987	10.3773	10.3230	10.3600	10.3600	2	20,720.00
Mar 2019	ZAAD		Future	420	10.5181	10.4619	0.0000	0.0000	0	0.00
Jun 2019	ZAAD		Future	4,929	10.6533	10.5960	0.0000	0.0000	0	0.00
				39,336					2.00	20,720.00
				<b>Total</b>	<b>39,336</b>				<b>2.00</b>	<b>20,720.00</b>
										3 778 500.00
										32 655 482 878.80
<b>Future</b>										
Dec 2018	ZACA		Future	500	11.2053	11.2150	11.2107	11.2052	400	4,482,905.00
Mar 2019	ZACA		Future	400	11.3619	11.3717	11.3640	11.3585	400	4,544,225.00
				900					800.00	9,027,130.00
				<b>Total</b>	<b>900</b>				<b>800.00</b>	<b>9,027,130.00</b>
										138 453.00
										1 364 082 201.60
<b>Future</b>										
Dec 2018	ZADK		Future	240	2.2680	2.4226	0.0000	0.0000	0	0.00
				240					0.00	0.00
				<b>Total</b>	<b>240</b>				<b>0.00</b>	<b>0.00</b>
										12 335.00
										265 809 909.00
<b>Future</b>										
Dec 2018	ZAEU		Future	106,385	16.7396	16.6771	16.8050	16.7366	6,076	101,006,177.00
Mar 2019	ZAEU		Future	36,311	17.0925	17.0262	17.1352	17.1352	250	4,283,800.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
	Jun 2019	ZAEU	Future	4,906	17.4232	17.3554	0.0000	0.0000	0	0.00	
	Sep 2019	ZAEU	Future	8,262	17.7880	17.7193	0.0000	0.0000	0	0.00	
				<u>155,864</u>					<u>6,326.00</u>	<u>105,289,977.00</u>	<u>15 593 627.00</u>
<b>Option</b>											<u>224 232 566 403.10</u>
	Mar 2019	ZAEU	15.60 Put	462	146.5783	159.8003	0.0000	0.0000	0	0.00	
	Mar 2019	ZAEU	16.00 Call	650	1336.9946	1288.8180	0.0000	0.0000	0	0.00	
	Mar 2019	ZAEU	17.33 Put	462	877.2758	912.6671	0.0000	0.0000	0	0.00	
	Mar 2019	ZAEU	19.65 Call	462	182.2293	170.8388	0.0000	0.0000	0	0.00	
				<u>2,036</u>					<u>0.00</u>	<u>0.00</u>	<u>10 794 964.00</u>
	<b>Total</b>			<b>157,900</b>					<b>6,326.00</b>	<b>105,289,977.00</b>	<b>26 388 591.00</b>
											<u>224 232 566 403.10</u>
<b>Future</b>											
	Dec 2018	ZAFR	Future	1,748	14.6960	14.6713	0.0000	0.0000	0	0.00	
	Jun 2019	ZAFR	Future	150	15.3281	15.3008	0.0000	0.0000	0	0.00	
				<u>1,898</u>					<u>0.00</u>	<u>0.00</u>	<u>620 576.00</u>
	<b>Total</b>			<b>1,898</b>					<b>0.00</b>	<b>0.00</b>	<b>620 576.00</b>
											<u>6 667 908 161.60</u>
<b>Future</b>											
	Dec 2018	ZAGB	Future	438,787	18.8216	18.8643	18.9000	18.9000	205	3,882,700.00	
	Mar 2019	ZAGB	Future	8,280	19.1471	19.1888	19.2842	19.2842	250	4,821,050.00	
	Jun 2019	ZAGB	Future	5,506	19.4502	19.4921	0.0000	0.0000	0	0.00	
	Sep 2019	ZAGB	Future	10,363	19.7830	19.8262	0.0000	0.0000	0	0.00	
				<u>462,936</u>					<u>455.00</u>	<u>8,703,750.00</u>	<u>12 834 847.00</u>
	<b>Total</b>			<b>467,136</b>					<b>455.00</b>	<b>8,703,750.00</b>	<b>14 613 960.00</b>
											<u>218 390 620 908.60</u>
<b>Option</b>											
	Dec 2018	ZAGB	19.30 Call	200	304.1793	326.3163	0.0000	0.0000	0	0.00	
	Mar 2019	ZAGB	18.00 Put	500	355.1462	349.1307	0.0000	0.0000	0	0.00	
	Mar 2019	ZAGB	19.19 Put	1,000	857.8191	841.3303	0.0000	0.0000	0	0.00	
	Mar 2019	ZAGB	20.00 Call	500	519.9498	538.1756	0.0000	0.0000	0	0.00	
	Mar 2019	ZAGB	20.18 Call	1,500	469.5882	485.9674	0.0000	0.0000	0	0.00	
	Mar 2019	ZAGB	21.44 Call	500	229.8077	239.2620	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>
	<b>Total</b>			<b>467,136</b>					<b>455.00</b>	<b>8,703,750.00</b>	<b>14 613 960.00</b>
											<u>218 390 620 908.60</u>
<b>Future</b>											
	Dec 2018	ZAJY	Future	6,905	0.1307	0.1300	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>
											<u>11 470 576 312.50</u>
<b>Future</b>											
	Jun 2019	ZAKS	Future	2,166	0.0041	0.1406	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>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME		
<b>Total</b>			<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	<b>38 066.00</b>	<b>515 662 000.00</b>	
<b>Future</b>												
	Dec 2018	ZATR	Future	6,000	2.5319	2.4907	0.0000	0.0000	4,000	10,052,000.00		
				<u>6,000</u>					<u>4,000.00</u>	<u>10,052,000.00</u>	<u>389 239.00</u>	<u>1 243 489 569.00</u>
			<b>Total</b>	<b>6,000</b>					<b>4,000.00</b>	<b>10,052,000.00</b>	<b>389 239.00</b>	<b>1 243 489 569.00</b>
<b>Future</b>												
	Dec 2018	ZAUM	Future	268	14.6562	14.5763	0.0000	0.0000	95	138,782,100.00		
	Mar 2019	ZAUM	Future	10	14.8344	14.7519	0.0000	0.0000	0	0.00		
				<u>278</u>					<u>95.00</u>	<u>138,782,100.00</u>	<u>153 220.00</u>	<u>177 146 531 160.00</u>
			<b>Total</b>	<b>278</b>					<b>95.00</b>	<b>138,782,100.00</b>	<b>157 743.00</b>	<b>177 146 531 160.00</b>
<b>Future</b>												
	Dec 2018	ZAUS	Future	823,879	14.6562	14.5763	14.7288	14.5600	96,145	1,424,549,933.20		
	Mar 2019	ZAUS	Future	52,745	14.8344	14.7519	14.8936	14.8004	1,707	25,351,552.00		
	Jun 2019	ZAUS	Future	19,376	14.9995	14.9163	14.9554	14.9514	300	4,485,640.00		
	Sep 2019	ZAUS	Future	18,444	15.1781	15.0955	0.0000	0.0000	0	0.00		
	Dec 2019	ZAUS	Future	2,200	15.3551	15.2708	0.0000	0.0000	0	0.00		
	Mar 2020	ZAUS	Future	3,966	15.5524	15.4634	0.0000	0.0000	0	0.00		
				<u>920,610</u>					<u>98,152.00</u>	<u>1,454,387,125.20</u>	<u>188 400 868.00</u>	<u>2 258 306 029 381.20</u>
<b>Option</b>												
	Dec 2018	ZAUS	11.64 Put	2,764	1.6327	2.2338	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	11.75 Put	228,616	1.9959	2.7121	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	11.90 Put	11,300	2.3846	3.2136	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.00 Put	174,530	2.6892	3.6045	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.02 Put	5,500	2.7552	3.6889	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.10 Put	8,580	3.0372	4.0491	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.20 Put	7,300	3.4357	4.5558	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.25 Put	3,300	3.6564	4.8358	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.38 Put	39,589	4.3084	5.6594	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.50 Call	228,616	2161.2283	2082.8640	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.50 Put	26,400	5.0283	6.5640	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.63 Put	39,589	5.9664	7.7370	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.68 Put	10,000	6.3788	8.2515	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.75 Put	1,000	7.0126	9.0395	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.95 Put	500	9.2608	11.8223	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.00 Call	6,000	1666.1464	1588.9672	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.00 Put	177,520	9.9464	12.6672	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.05 Put	1,500	10.6909	13.5842	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.10 Put	11,300	11.5011	14.5796	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	13.20 Call	7,100	1469.5547	1394.9339	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	13.22 Put	5,500	14.3555	19.9453	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1422.1702	1348.3498	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	15.9702	22.0498	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	20.3118	27.6461	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	21.0026	28.5287	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1237.0370	1167.2277	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	30.8370	40.9277	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1192.0663	1123.4652	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	35.8663	47.1652	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	47.8010	61.7594	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	59.3427	75.6490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	62.5268	79.4488	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	71.0405	89.5489	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	78.4393	98.2636	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,164	936.5723	876.8322	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	80.3723	100.5322	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	101.6425	125.4619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	820.2352	765.7778	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	783.6174	730.7992	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	127.4174	154.4992	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	157.2438	187.6346	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	163.7100	194.7615	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	693.2046	644.6901	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	173.7245	205.7701	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	177.1463	209.5255	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	647.4657	601.2649	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	191.2657	224.9649	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	206.0707	241.0835	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	616.0800	571.5209	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	229.5686	266.5365	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	568.0996	526.1352	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	241.8996	279.8352	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	556.5351	515.2130	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	250.3351	288.9130	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	267.7243	307.5715	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	528.3795	488.6405	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	506.6260	468.1375	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	475.2704	438.6216	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	319.0704	362.3216	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	323.9908	367.5450	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	426.3642	392.6726	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,500	370.1642	416.3726	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	14.61 Call	1,500	421.6989	388.5214	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	417.0766	384.4093	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	408.7796	458.1312	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	382.5729	352.8986	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	450.3754	501.7397	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	362.6711	334.4158	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	456.4711	508.1158	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	343.7198	316.8314	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	487.5198	540.5314	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	329.2198	303.3863	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	325.6858	300.1097	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	552.3374	607.9233	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	276.7667	254.8211	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	620.5667	678.5211	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	273.7685	252.0472	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	250.8794	230.8909	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	248.1516	228.3715	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	234.9480	216.1750	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	4,050	222.4376	204.6262	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	766.2376	828.3262	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	804.3892	867.3914	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	843.1708	907.0437	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	184.6724	169.7335	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	167.0873	153.5457	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	163.3821	150.1649	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	159.7593	146.8598	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1003.5593	1070.5598	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	157.9773	145.2351	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	144.4307	132.8839	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	142.8213	131.4172	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	141.2302	129.9672	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	127.7043	117.6406	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	123.4962	113.8057	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1293.0543	1364.5286	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	108.0464	99.7283	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	101.0884	93.3886	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,050	91.5201	84.6686	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	81.0284	74.7718	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	78.1759	72.1976	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	72.7649	67.3163	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	69.3671	64.2490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	47.3419	44.3326	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	16.80 Call	13,150	35.6122	33.6771	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	28.1472	26.8619	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.9323	3.4960	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	9.7566	11.5902	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	30.7328	36.4583	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	32.8373	38.7431	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	60.5796	68.2559	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	62.4134	70.1795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	70.2097	78.3351	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	75.4760	83.8235	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	83.3905	92.0469	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	86.9826	95.7705	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	99.8786	109.0948	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	111.2680	122.0364	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	116.1200	127.9652	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	900	123.7500	0.0000	0.0000	0.0000	900	0.00
Mar 2019	ZAUS	13.46 Put	20,000	135.8529	149.1920	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	144.3698	158.3311	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	155.5304	170.2910	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	167.2750	182.8553	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	187.3103	204.2381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	192.5620	209.8340	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	197.9121	215.5311	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	206.1243	224.2689	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	217.4214	236.2759	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	238.1615	258.2849	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	250.5750	271.4344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	283.4168	306.1518	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	297.2797	321.7383	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	359.6923	388.6603	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	394.3717	424.8048	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	937.7204	886.0177	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	426.1730	457.8767	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	900	459.3154	0.0000	0.0000	0.0000	900	0.00
Mar 2019	ZAUS	14.44 Put	7,000	469.0289	502.3436	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	473.9277	507.4168	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	843.1775	794.7020	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	833.2117	785.0854	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	498.8117	533.1854	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	514.0594	548.9636	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	529.5469	564.9711	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	577.3964	614.3712	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	14.74 Put	24,326	627.3018	665.7930	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	667.4955	707.5632	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	673.3360	713.6335	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	679.1966	719.7308	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	685.0847	725.8478	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	621.3176	582.2606	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	808.6719	852.9640	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	847.4980	892.7876	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	860.6102	906.2277	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	867.1977	912.9801	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	558.1550	522.0837	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	907.1565	953.9049	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	913.8877	960.7932	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	996.1973	1044.9670	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	472.8357	441.0254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	470.0570	438.3882	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	459.1163	428.0184	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	453.7490	423.0115	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	448.4495	418.0695	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	418.1362	389.7314	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	383.5162	357.3045	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	379.1473	353.2180	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	366.3746	341.2731	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	900	348.1259	0.0000	0.0000	0.0000	900	0.00
Mar 2019	ZAUS	16.00 Call	10,000	344.2125	320.5668	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	319.9839	297.9567	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	291.2315	270.5675	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	278.4040	258.0312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	247.6771	229.4026	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	244.8167	226.7378	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	199.1369	184.2928	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	198.0130	183.2479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	192.4983	178.1359	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	186.1106	172.2143	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	185.0701	171.2499	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	184.0362	170.2895	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	171.1769	158.3786	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	164.6833	152.3680	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	147.6518	136.6147	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	116.5388	109.6952	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	101.0702	95.6465	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.5480	8.1843	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	12.28 Put	1,000	29.9135	38.2770	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	75.3083	87.4106	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	110.1253	123.6476	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	113.6068	127.2334	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	161.4622	176.0879	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	324.9842	343.9805	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	341.8672	361.5371	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1396.7336	1334.5695	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1143.1439	1090.4909	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	1064.4608	1014.2122	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	671.4902	705.1862	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	956.4830	909.7469	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,000	844.3320	801.0593	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	691.5100	653.9710	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	670.5965	633.8848	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	620.1734	585.9424	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	589.2533	556.3963	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	569.6471	537.6806	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	255.9329	242.1317	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	14.2409	14.5862	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	59.7193	59.0052	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	432.4339	451.6106	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	454.8434	474.4861	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	501.6660	522.2410	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	521.9647	542.9243	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	551.1605	572.6563	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	603.2957	625.7051	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	799.2958	829.9589	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1195.0839	1232.7302	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.55 Call	30,000	934.5682	891.3922	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1313.1449	1352.6706	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	834.6752	794.7569	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	529.5868	502.6456	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	464.6015	441.2181	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	435.2933	413.5671	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	424.7648	403.6458	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	382.3247	367.2304	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	367.0384	352.9188	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	33,715	354.4010	341.0944	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.67 Call	141,127	351.3740	338.2634	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	19.32 Call	33,151	308.6166	298.3473	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	46.5836	41.1935	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 2019	ZAUS	13.66 Put	1,000	397.5219	415.7711	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38 Call	1,000	690.3867	660.0753	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	406.3133	386.1410	0.0000	0.0000	0	0.00	
			<u>8,237,212</u>					<u>2,700.00</u>	<u>0.00</u>	<u>60 812 933.00</u>
		<b>Total</b>	<b>9,157,822</b>					<b>100,852.00</b>	<b>1,454,387,125.20</b>	<b>249 213 801.00</b>
										<b>2 258 306 029 381.20</b>

<b>Grand Total</b>			<b>10,904,169</b>					<b>161,317.00</b>	<b>1 816 703 955.98</b>	<b>340,455,192</b>	<b>3,131,789,637,011.03</b>
--------------------	--	--	-------------------	--	--	--	--	-------------------	-------------------------	--------------------	-----------------------------