



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 04-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Oct 2018	CC01	Future	25,000	640.0656	655.0754	0.0000	0.0000	0	0.00		
			<u>25,000</u>					<u>0.00</u>	<u>0.00</u>	<u>25 000.00</u>	<u>7 830 750.00</u>
		Total	25,000					0.00	0.00	25 000.00	7 830 750.00
Future											
Oct 2018	DAEU	Future	34	16.9890	16.5874	0.0000	0.0000	0	0.00		
			<u>34</u>					<u>0.00</u>	<u>0.00</u>	<u>801 328.00</u>	<u>11 965 949 271.80</u>
Option											
Aug 2019	DAEU	17.01 Put	31,200	562.8110	678.5342	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	729.2736	566.6546	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>
		Total	93,634					0.00	0.00	2 191 915.00	11 965 949 271.80
Future											
Oct 2018	DAGB	Future	48	19.2058	18.6919	0.0000	0.0000	0	0.00		
			<u>48</u>					<u>0.00</u>	<u>0.00</u>	<u>53 893.00</u>	<u>887 905 331.00</u>
		Total	48					0.00	0.00	261 206.00	887 905 331.00
Future											
Oct 2018	DAUS	Future	4,314	14.7370	14.3662	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	235	14.7410	14.3705	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.7567	14.3878	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.7646	14.3965	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.7666	14.3987	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	4,249	14.7685	14.4008	0.0000	0.0000	120	1,764,360.00		
Nov 2018	DAUS	Future	55	14.7705	14.4030	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.7942	14.4269	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.7982	14.4307	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	120	14.8001	14.4326	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.8120	14.4440	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	Future	461	14.8259	14.4573	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	8,424	14.8279	14.4592	0.0000	0.0000	1,500	21,858,250.00
Dec 2018	DAUS	Future	3,672	14.8517	14.4821	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,714	14.8895	14.5184	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.8934	14.5223	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.9486	14.5757	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,020	14.9505	14.5776	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	14.9760	14.6024	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	5,787	15.0055	14.6310	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	15.0585	14.6825	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,029	15.0624	14.6863	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	15.0702	14.6940	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,280	15.1252	14.7464	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	55	15.1861	14.8042	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	15.2471	14.8621	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	15.3076	14.9211	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	15.3699	14.9823	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.4284	15.0396	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.4880	15.0981	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	15.5550	15.1634	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.6198	15.2267	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.6805	15.2858	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	15.7453	15.3491	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.8101	15.4124	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.8666	15.4675	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	15.9377	15.5369	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	16.0548	15.6512	0.0000	0.0000	0	0.00
			<u>129,109</u>					<u>1,620.00</u>	<u>23,622,610.00</u>
									<u>10 716 122.00</u>
									<u>131 175 625 754.50</u>
Option									
Oct 2018	DAUS	14.88 Put	314	274.3971	549.2657	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.96 Call	314	106.6579	27.4664	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	2.8884	5.2435	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	766.0105	445.1173	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	3.2882	7.0853	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	24.1636	54.1891	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	871.3647	553.8501	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	36.1121	93.7556	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	88.9967	195.1636	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.34 Put	171	114.7871	237.9417	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.44 Call	171	477.1861	253.1230	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	470.8868	249.0504	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	346.7072	173.0213	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>
Oct 2018	DAUS	14.82 Put	114	330.2349	553.3794	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	248.0342	117.0345	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	210.8045	96.9186	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	20.0298	6.0280	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	7.3663	1.9402	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	0.1973	0.3718	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	36.6010	79.4305	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	15.9262	4.7036	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	164.8735	291.1843	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	525.0024	310.1270	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0010	0.1333	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.3794	0.8198	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1588.8527	1233.2337	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	415.5243	238.9950	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	406.1222	232.9653	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	342.5635	192.2091	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	432.4635	649.6091	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	375.0918	215.5715	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	499.6599	302.7911	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	9.3095	13.4401	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	61.7751	123.1873	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	70.4741	137.3768	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	869.6487	595.4895	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	172.9820	289.3544	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	718.1953	472.4227	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	447.4346	274.1880	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	438.6517	268.2617	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	67.6587	32.3075	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	35.9764	16.2472	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	867.8093	1129.6911	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	91.0222	164.7718	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	204.1826	327.0241	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	492.5132	697.5556	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	758.7438	1006.5318	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	54.4906	103.9636	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	89.9571	160.4839	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	385.5873	239.4720	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	224.0939	131.1630	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	111.6769	190.2913	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	230.8162	356.5332	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	521.1899	721.2172	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	783.2580	1023.3434	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	13.20 Put	1,000	25.1901	43.0735	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	28.7562	55.5130	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	601.4947	401.1690	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	558.3649	369.6433	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	25.2902	33.2550	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	103.6445	174.1784	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	887.0238	634.6169	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	228.3250	350.2291	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	574.3351	777.4997	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	112.4693	64.8115	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	70.0487	38.2327	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	23.4604	31.2335	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	42.7939	59.2405	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	279.0240	403.1119	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	902.3993	665.7782	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	554.8340	388.7452	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	57.5491	80.3059	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	318.3758	441.7683	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	922.0067	693.4346	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	599.7309	432.2571	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	50,000	264.6701	360.6982	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	70.9706	100.5374	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	355.6467	476.4501	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	941.2444	718.7189	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	636.5599	468.4651	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	82.8487	119.0593	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1797.1600	1479.0072	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	390.0994	508.6071	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	958.5584	742.7839	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	670.7341	503.8108	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	91.6408	134.4233	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	420.3810	537.3502	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	975.9471	764.2460	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	701.1302	534.7315	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	655.6846	806.5356	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	437.8329	322.8808	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	97.5015	146.7494	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	445.9106	559.9413	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	990.5497	780.3376	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	725.1536	558.8187	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	190.9664	261.5930	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	616.8245	470.7542	0.0000	0.0000	0	0.00

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Jul 2019	DAUS	13.00 Put	500	103.2476	161.0953	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	473.2109	584.2200	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	1014.4852	805.9542	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	757.3557	590.7716	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,950	581.5172	710.4346	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,950	733.6135	573.4265	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	106.6070	166.4841	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	496.8271	603.7821	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	1026.3752	820.9585	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	778.7083	613.0657	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	369.7471	289.2047	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	111.9926	172.2427	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	518.1983	623.7298	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	1046.9365	842.9253	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	805.7379	639.4893	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	112.1809	177.4439	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	537.9901	644.9218	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	1062.8663	863.3358	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	829.6207	665.4931	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	128.4169	184.3244	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	554.1933	662.5785	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	1084.7952	887.9511	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	856.3948	692.5268	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	143.2535	198.9498	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	570.4692	679.6359	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	1106.4139	912.5916	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	885.5262	722.3425	0.0000	0.0000	0	0.00		
			<u>799,603</u>					<u>0.00</u>	<u>0.00</u>	<u>20 866 410.00</u>	<u>0.00</u>
Total			928,712					1,620.00	23,622,610.00	31 582 532.00	131 175 625 754.50
Future											
Dec 2018	EUUS	Future	40	1.1583	1.1605	0.0000	0.0000	0	0.00		
			<u>40</u>					<u>0.00</u>	<u>0.00</u>	<u>744 445.00</u>	<u>8 445 126 755.00</u>
Total			40					0.00	0.00	744 445.00	8 445 126 755.00
Future											
Dec 2018	GBUS	Future	500	1.3068	1.3049	0.0000	0.0000	0	0.00		
			<u>500</u>					<u>0.00</u>	<u>0.00</u>	<u>168 921.00</u>	<u>2 173 503 224.00</u>
Total			500					0.00	0.00	168 921.00	2 173 503 224.00
Future											
Dec 2018	ZAAD	Future	36,596	10.5400	10.3687	10.5055	10.4859	38	398,483.80		

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Mar 2019	ZAAD	Future	520	10.6865	10.5104	0.0000	0.0000	0	0.00
Jun 2019	ZAAD	Future	4,929	10.8283	10.6460	0.0000	0.0000	0	0.00
			<u>42,045</u>					38.00	398,483.80
		Total	42,045					38.00	398,483.80
									3 738 882.00
									32 581 534 031.60
Future									
Dec 2018	ZACA	Future	600	11.5534	11.3138	0.0000	0.0000	0	0.00
			<u>600</u>					0.00	0.00
		Total	600					0.00	0.00
									137 653.00
									1 355 055 071.60
Future									
Dec 2018	ZADK	Future	240	2.3289	2.2738	0.0000	0.0000	0	0.00
			<u>240</u>					0.00	0.00
		Total	240					0.00	0.00
									12 335.00
									265 809 909.00
Future									
Dec 2018	ZAEU	Future	109,986	17.2076	16.8115	17.2320	17.0986	791	13,356,952.50
Mar 2019	ZAEU	Future	36,646	17.5709	17.1646	0.0000	0.0000	0	0.00
Jun 2019	ZAEU	Future	5,256	17.9161	17.4968	0.0000	0.0000	0	0.00
Sep 2019	ZAEU	Future	6,834	18.2957	17.8645	0.0000	0.0000	0	0.00
			<u>158,722</u>					791.00	13,356,952.50
									15 576 866.00
									223 949 393 219.30
Option									
Mar 2019	ZAEU	15.60 Put	462	105.7334	137.3695	0.0000	0.0000	0	0.00
Mar 2019	ZAEU	16.00 Call	650	1740.2441	1397.3980	0.0000	0.0000	0	0.00
Mar 2019	ZAEU	17.33 Put	462	675.8188	848.4338	0.0000	0.0000	0	0.00
Mar 2019	ZAEU	19.65 Call	462	301.1933	204.4351	0.0000	0.0000	0	0.00
			<u>2,036</u>					0.00	0.00
		Total	160,758					791.00	13,356,952.50
									26 371 430.00
									223 949 393 219.30
Future									
Dec 2018	ZAFR	Future	1,648	15.0835	14.7404	0.0000	0.0000	0	0.00
Jun 2019	ZAFR	Future	150	15.7391	15.3734	0.0000	0.0000	0	0.00
			<u>1,798</u>					0.00	0.00
		Total	1,798					0.00	0.00
									620 476.00
									6 666 400 751.60
Future									
Dec 2018	ZAGB	Future	439,766	19.4130	18.9028	19.4099	19.2000	1,034	19,994,563.20
Mar 2019	ZAGB	Future	5,644	19.7515	19.2301	19.6583	19.6583	1,000	19,658,300.00
Jun 2019	ZAGB	Future	5,856	20.0691	19.5344	0.0000	0.0000	0	0.00
Sep 2019	ZAGB	Future	10,363	20.4125	19.8685	0.0000	0.0000	0	0.00
			<u>461,629</u>					2,034.00	39,652,863.20
									12 811 154.00
									217 936 291 244.40

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Option									
Mar 2019	ZAGB	18.00 Put	500	249.4401	351.8554	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	20.00 Call	500	818.2858	576.8609	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	21.44 Call	500	408.0360	268.7481	0.0000	0.0000	0	0.00
			<u>1,500</u>					<u>0.00</u>	<u>0.00</u>
		Total	463,129					2,034.00	39,652,863.20
									14 586 767.00 217 936 291 244.40
Future									
Dec 2018	ZAJY	Future	6,905	0.1313	0.1277	0.0000	0.0000	0	0.00
			<u>6,905</u>					<u>0.00</u>	<u>0.00</u>
		Total	6,905					0.00	0.00
									1 021 902.00 11 470 576 312.50
Future									
Jun 2019	ZAKS	Future	2,166	0.1447	0.1416	0.0000	0.0000	0	0.00
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>
		Total	2,166					0.00	0.00
									38 066.00 515 662 000.00
Future									
Dec 2018	ZATR	Future	12,000	2.2982	2.2970	0.0000	0.0000	0	0.00
			<u>12,000</u>					<u>0.00</u>	<u>0.00</u>
		Total	12,000					0.00	0.00
									383 239.00 1 228 466 169.00
Future									
Dec 2018	ZAUM	Future	337	14.8557	14.4859	0.0000	0.0000	0	0.00
Mar 2019	ZAUM	Future	10	15.0408	14.6653	0.0000	0.0000	0	0.00
			<u>347</u>					<u>0.00</u>	<u>0.00</u>
		Total	347					0.00	0.00
									153 038.00 176 882 116 960.00
Future									
Dec 2018	ZAUS	Future	838,198	14.8557	14.4859	14.9200	14.7377	120,294	1,777,567,304.60
Mar 2019	ZAUS	Future	44,296	15.0408	14.6653	15.0520	14.9500	4,830	71,757,546.80
Jun 2019	ZAUS	Future	19,046	15.2137	14.8304	15.1500	15.1500	6	90,900.00
Sep 2019	ZAUS	Future	20,642	15.3972	15.0090	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	Future	3,966	15.7746	15.3777	0.0000	0.0000	0	0.00
			<u>926,148</u>					<u>125,130.00</u>	<u>1,849,415,751.40</u>
									187 452 199.00 2 244 432 885 183.60
Option									
Dec 2018	ZAUS	11.64 Put	2,764	2.4402	4.1195	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	3.0613	4.6641	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	4.1444	5.5359	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	4.6661	6.2148	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	4.7785	6.3613	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	12.10 Put	8,580	5.2575	6.9863	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	5.9287	7.8643	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	6.2979	8.3487	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	7.3776	9.7707	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	2364.2517	1997.2270	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	8.5517	11.3270	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	10.0545	13.3355	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	10.7068	14.2129	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	11.6979	15.5528	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	15.1241	20.2456	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1871.8424	1507.5580	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	16.1424	21.6580	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	17.2368	23.1849	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	18.4125	27.0484	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1676.7376	1322.1750	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	21.6105	38.3805	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1628.2020	1277.6137	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	22.5020	41.7137	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	24.7450	50.3430	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	25.0846	51.6777	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1440.1826	1105.7332	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	34.4826	69.8332	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1395.3065	1064.5330	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	39.6065	78.6330	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	51.5643	98.5898	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	62.9227	116.9461	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	66.0281	121.8809	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	74.2798	134.8399	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	1155.2735	848.9508	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	81.3977	145.8603	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	1138.9502	834.6086	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	83.2502	148.7086	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	103.4662	180.1591	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	1020.4617	733.2527	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	982.5780	701.4330	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	126.8780	215.5330	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	153.6615	254.8768	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	159.6611	263.2217	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	888.4194	623.3550	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	168.9431	276.0379	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	172.1107	280.3900	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	840.8547	584.0907	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.20 Put	13,650	185.1547	298.1907	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	198.7988	316.6179	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	808.0039	557.2237	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	220.3956	345.4304	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	757.4041	516.2579	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	231.7041	360.3579	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	745.1345	506.4024	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	239.4345	370.5024	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	255.3440	391.2441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	715.1157	482.4217	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	691.7792	463.9125	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	657.8992	437.2490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	302.1992	451.3490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	306.6831	457.2274	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	604.4033	397.6085	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,000	348.7033	511.7085	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	599.2552	393.8363	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	594.1433	390.0953	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	569.1255	371.8977	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	383.4255	555.9977	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	554.5439	361.3689	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	419.8961	601.8771	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	530.9492	344.4584	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	425.2492	608.5584	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	508.2203	328.3142	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	452.5203	642.4142	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	490.6507	315.9349	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	486.3421	312.9139	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	510.1909	712.3250	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	427.4050	270.8831	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	20,700	571.7050	784.9831	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	423.7269	268.2929	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	395.3995	248.4486	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	391.9922	246.0746	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	375.3796	234.5567	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	703.7646	937.6931	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	738.5212	977.2640	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	773.9310	1017.2164	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	310.2530	189.8699	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	287.0462	174.1557	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	282.1370	170.8540	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	277.3153	167.6187	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.50 Put	600	921.6153	1181.7187	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	274.9379	166.0254	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	256.6632	153.8441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	254.4717	152.3902	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	252.2631	150.9510	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	233.2635	138.6365	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	227.2673	134.7755	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1190.9386	1475.6942	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	204.8642	120.4679	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	194.5561	113.9453	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	50	180.1238	104.4953	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	164.0397	93.7136	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	159.9297	90.9789	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	152.0468	85.7590	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	147.0306	82.4555	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	111.2803	60.4250	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	90.0906	48.0857	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	75.7312	39.8945	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.3719	4.3505	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	11.0805	14.7445	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	29.7068	44.8700	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	31.6607	47.4884	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	57.1318	80.7291	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	58.8017	82.8669	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	65.8863	91.8991	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	70.6622	97.9553	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	77.8224	106.9945	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	81.0686	111.0752	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	92.6934	128.0275	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	107.0028	151.6858	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	121.5025	175.6665	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	127.7213	185.9367	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	135.8709	199.3336	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	146.6450	213.3544	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	165.0719	237.1144	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	169.9108	243.3122	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	174.8467	249.6136	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	182.4247	259.2590	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	192.8667	272.4838	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	212.0715	296.6384	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	223.5832	311.0239	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	254.1073	351.1544	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.04 Put	7,100	267.0195	367.9912	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	322.7151	0.0000	0.0000	0.0000	2,000	0.00
Mar 2019	ZAUS	14.28 Put	7,028	353.0071	478.2519	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	1,000	1101.6378	853.4416	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	382.1135	513.3319	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	422.1253	560.3120	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	1001.4017	767.1598	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	990.7957	758.0831	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	449.9957	592.7831	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	464.2845	609.3592	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	478.8069	626.1543	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	523.7540	677.8597	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	570.7374	732.0269	0.0000	0.0000	1	0.00
Mar 2019	ZAUS	14.82 Put	4,145	614.1683	781.7300	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	619.7068	788.0454	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	625.2650	794.3827	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	774.6184	577.3862	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	741.3342	925.5577	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	790.1509	980.2971	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	796.3477	987.2283	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	692.1410	510.4342	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	833.9646	1029.1989	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	840.3073	1036.2570	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	917.9849	1122.3780	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	596.0886	433.9645	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	592.9307	431.5105	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	580.4956	421.8503	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	574.3850	0.0000	0.0000	0.0000	1	0.00
Mar 2019	ZAUS	15.54 Call	721	568.3409	412.4382	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	533.5347	385.6035	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	493.3422	354.8478	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	473.4484	339.6236	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	447.5918	319.9324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	419.1359	297.9987	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	385.1023	270.2708	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	370.2448	258.2221	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	335.6408	230.6513	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	332.1633	228.0828	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	276.0677	187.0018	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	274.6734	185.9895	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	267.8106	181.0202	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	259.8405	175.2634	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	17.09 Call	106,824	258.5375	174.3249	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	257.2421	173.3899	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	241.0852	161.7835	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	232.8765	155.9144	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	211.1856	140.4931	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	166.7274	115.1850	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	145.3597	100.8018	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	9.4342	9.4827	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	25.3255	43.3022	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	63.5721	97.2188	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	93.1856	136.4891	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	96.1592	140.3602	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	137.2553	192.8414	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	284.9638	371.3073	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	6,250	300.6268	389.8532	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1567.2269	1278.9834	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1297.1203	1045.6902	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	1213.0088	972.7324	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	604.4487	750.6242	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	1098.4600	873.0462	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	813.7844	629.5090	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	6,250	790.8144	610.5258	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	735.0690	565.1496	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	700.4321	537.1385	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	678.5062	519.3947	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	324.4698	238.7646	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	15.5956	16.4612	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	37.8446	73.4012	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	381.5833	471.5809	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	402.4492	495.1643	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	446.1812	544.3521	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	465.1884	565.6364	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	492.5754	596.2137	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	541.6127	653.8075	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	721.2493	864.7043	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1103.3907	1275.9280	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.55 Call	30,000	1057.7873	850.4300	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1217.0049	1398.3483	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	949.8043	758.3862	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	617.9061	479.2139	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	545.9579	420.8389	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	513.3648	394.5935	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>	
Sep 2019	ZAUS	17.93 Call	2,571	501.6331	385.1818	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.29 Call	81,930	453.1477	352.7684	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.47 Call	1,200	431.3229	339.0876	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.63 Call	33,715	416.4763	327.7857	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.67 Call	141,127	413.1035	325.0789	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	19.32 Call	33,151	365.4422	286.9276	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	11.89 Put	1,000	38.5172	34.0249	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	13.66 Put	1,000	324.9016	426.8976	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38 Call	1,000	776.5427	626.6402	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	463.7882	361.2072	0.0000	0.0000	0	0.00	
			<u>7,838,094</u>					<u>2,002.00</u>	<u>0.00</u>	<u>60 258 743.00</u>
		Total	<u>8,764,242</u>					<u>127,132.00</u>	<u>1,849,415,751.40</u>	<u>247 710 942.00</u>
										<u>2 244 432 885 183.60</u>

Grand Total	<u>10,502,164</u>							<u>131,615.00</u>	<u>1 926 446 660.90</u>	<u>338,166,578</u>	<u>3,114,461,536,684.72</u>
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