



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 03-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Oct 2018	CC01	Future	25,000	655.0754	663.5359	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	16.5874	16.5840	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	678.5342	693.2049	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	566.6546	572.9707	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	18.6919	18.6274	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	0	14.3450	14.3237	0.0000	0.0000	378	5,424,300.00		
Oct 2018	DAUS	Future	4,314	14.3662	14.3413	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	235	14.3705	14.3453	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.3878	14.3610	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.3965	14.3688	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.3987	14.3708	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	4,369	14.4008	14.3728	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	55	14.4030	14.3747	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.4269	14.3975	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.4307	14.4013	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	120	14.4326	14.4031	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	179	14.4440	14.4143	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.4573	14.4274	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	6,924	14.4592	14.4293	0.0000	0.0000	500	7,221,250.00		
Dec 2018	DAUS	Future	3,672	14.4821	14.4522	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,714	14.5184	14.4887	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.5223	14.4926	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.5757	14.5453	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,020	14.5776	14.5471	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.6024	14.5716	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,787	14.6310	14.5998	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.6825	14.6505	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.6863	14.6543	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.6940	14.6618	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.7464	14.7142	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.8042	14.7723	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.8621	14.8303	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.9211	14.8893	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.9823	14.9504	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0396	15.0076	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0981	15.0669	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.1634	15.1327	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2267	15.1965	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2858	15.2561	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.3491	15.3199	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4124	15.3837	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4675	15.4392	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.5369	15.5091	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.6512	15.6243	0.0000	0.0000	0	0.00		
			<u>127,729</u>					<u>878.00</u>	<u>12,645,550.00</u>	<u>10 714 502.00</u>	<u>131 152 003 144.50</u>
Option											
Oct 2018	DAUS	14.88 Put	314	549.2657	580.3235	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.96 Call	314	27.4664	32.9231	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.20 Put	1,630	5.2435	5.9735	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.00 Call	1,630	445.1173	437.4993	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.00 Put	500	7.0853	7.2120	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.80 Put	1,000	54.1891	68.4723	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.93 Call	500	553.8501	544.0275	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.97 Put	600	93.7556	113.1383	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.25 Put	250	195.1636	222.3228	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.34 Put	171	237.9417	267.1488	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.44 Call	171	253.1230	257.3132	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.45 Call	600	249.0504	253.3743	0.0000	0.0000	0	0.00		

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Oct 2018	DAUS	14.67 Call	250	173.0213	179.3017	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	553.3794	588.1142	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	117.0345	123.7995	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	96.9186	103.5460	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	6.0280	7.1172	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	1.9402	2.3303	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	0.3718	0.4260	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	79.4305	96.3235	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	4.7036	5.6372	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	291.1843	321.6030	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	310.1270	314.6680	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.1333	0.1673	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.8198	1.0849	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1233.2337	1205.9334	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	238.9950	245.3071	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	232.9653	239.3801	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	192.2091	199.1377	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	649.6091	686.0377	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	215.5715	222.3739	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	302.7911	308.5482	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	13.4401	16.6751	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	123.1873	142.6449	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	137.3768	158.0918	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	595.4895	591.9475	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	289.3544	319.5024	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	472.4227	473.6946	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	274.1880	281.0409	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	268.2617	275.2061	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	32.3075	35.2757	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	16.2472	17.9726	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	1129.6911	1166.4614	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	164.7718	185.8188	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	327.0241	357.0825	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	697.5556	733.9757	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1006.5318	1043.4983	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	103.9636	120.0819	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	160.4839	180.6680	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	239.4720	245.8105	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	131.1630	137.2312	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	190.2913	209.8070	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	356.5332	384.3320	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	721.2172	756.0001	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	15.30 Put	35,000	1023.3434	1059.5470	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	43.0735	52.0691	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	55.5130	65.8593	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	401.1690	404.2072	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	369.6433	373.4316	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	33.2550	39.4558	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	174.1784	190.6221	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	634.6169	630.0013	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	350.2291	375.9047	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	777.4997	811.6223	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	64.8115	68.6455	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	38.2327	41.1606	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	31.2335	33.0654	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	59.2405	63.4642	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	403.1119	428.2005	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	665.7782	662.3711	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	388.7452	393.2631	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	80.3059	84.9860	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	441.7683	466.9895	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	693.4346	691.3019	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	432.2571	436.9376	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	50,000	360.6982	382.2591	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	100.5374	106.3614	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	476.4501	501.7522	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	718.7189	717.7301	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	468.4651	473.5957	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	119.0593	125.5576	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1479.0072	1460.3994	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	508.6071	533.5745	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	742.7839	742.5586	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	503.8108	509.0460	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	134.4233	142.0266	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	537.3502	561.5544	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	764.2460	764.6739	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	534.7315	540.1246	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	806.5356	836.8618	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	322.8808	330.1841	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	146.7494	155.0042	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	559.9413	584.7790	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	780.3376	782.0988	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	558.8187	564.8730	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	261.5930	275.5843	0.0000	0.0000	0	0.00

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Jul 2019	DAUS	16.44 Call	39,250	470.7542	478.0575	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	161.0953	166.8666	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	584.2200	607.8896	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	805.9542	808.0428	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	590.7716	596.8689	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,950	710.4346	737.0508	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,950	573.4265	579.7670	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	166.4841	175.5817	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	603.7821	627.9745	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	820.9585	823.2813	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	613.0657	619.1850	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	289.2047	297.4993	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	172.2427	181.5586	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	623.7298	645.7204	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	842.9253	845.5068	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	639.4893	645.6182	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	177.4439	186.8450	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	644.9218	666.7713	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	863.3358	867.5363	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	665.4931	671.8438	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	184.3244	201.5288	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	662.5785	684.6468	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	887.9511	892.7183	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	692.5268	699.7098	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	198.9498	215.2761	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	679.6359	702.1972	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	912.5916	917.9398	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	722.3425	729.7035	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			927,332					878.00	12,645,550.00	31 580 912.00	131 152 003 144.50
Future											
Dec 2018	EUUS	Future	40	1.1605	1.1622	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	1.3049	1.3026	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

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Dec 2018	ZAAD	Future	36,596	10.3687	10.4113	10.3500	10.3500	3	31,050.00		
Mar 2019	ZAAD	Future	520	10.5104	10.5524	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,929	10.6460	10.6883	0.0000	0.0000	0	0.00		
			<u>42,045</u>					<u>3.00</u>	<u>31,050.00</u>	<u>3 738 844.00</u>	<u>32 581 135 547.80</u>
	Total		42,045					3.00	31,050.00	3 771 221.00	32 581 135 547.80
Future											
Dec 2018	ZACA	Future	600	11.3138	11.2912	0.0000	0.0000	0	0.00		
			<u>600</u>					<u>0.00</u>	<u>0.00</u>	<u>137 653.00</u>	<u>1 355 055 071.60</u>
	Total		600					0.00	0.00	137 653.00	1 355 055 071.60
Future											
Dec 2018	ZADK	Future	240	2.2738	2.2723	0.0000	0.0000	0	0.00		
			<u>240</u>					<u>0.00</u>	<u>0.00</u>	<u>12 335.00</u>	<u>265 809 909.00</u>
	Total		240					0.00	0.00	12 335.00	265 809 909.00
Future											
Dec 2018	ZAEU	Future	110,610	16.8115	16.8008	16.8003	16.8003	704	11,855,971.20		
Mar 2019	ZAEU	Future	36,646	17.1646	17.1522	0.0000	0.0000	0	0.00		
Jun 2019	ZAEU	Future	5,256	17.4968	17.4844	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	6,834	17.8645	17.8519	0.0000	0.0000	0	0.00		
			<u>159,346</u>					<u>704.00</u>	<u>11,855,971.20</u>	<u>15 576 075.00</u>	<u>223 936 036 266.80</u>
Option											
Mar 2019	ZAEU	15.60 Put	462	137.3695	143.9973	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	1397.3980	1394.0456	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	848.4338	866.0301	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	204.4351	210.0303	0.0000	0.0000	0	0.00		
			<u>2,036</u>					<u>0.00</u>	<u>0.00</u>	<u>10 794 564.00</u>	<u>0.00</u>
	Total		161,382					704.00	11,855,971.20	26 370 639.00	223 936 036 266.80
Future											
Dec 2018	ZAFR	Future	1,648	14.7404	14.7935	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	15.3734	15.4269	0.0000	0.0000	0	0.00		
			<u>1,798</u>					<u>0.00</u>	<u>0.00</u>	<u>620 476.00</u>	<u>6 666 400 751.60</u>
	Total		1,798					0.00	0.00	620 476.00	6 666 400 751.60
Future											
Dec 2018	ZAGB	Future	439,966	18.9028	18.8302	18.9462	18.9392	590	11,203,642.00		
Mar 2019	ZAGB	Future	4,932	19.2301	19.1544	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	Future	5,856	19.5344	19.4568	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	10,363	19.8685	19.7894	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
			461,117					590.00	11,203,642.00	12 809 120.00	217 896 638 381.20	
Option												
	Mar 2019	ZAGB	18.00 Put	500	351.8554	375.7739	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.00 Call	500	576.8609	564.3748	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	21.44 Call	500	268.7481	266.5902	0.0000	0.0000	0	0.00		
			1,500					0.00	0.00	1 775 613.00	0.00	
	Total		462,617					590.00	11,203,642.00	14 584 733.00	217 896 638 381.20	
Future												
	Dec 2018	ZAJY	Future	6,905	0.1277	0.1278	0.0000	0.0000	0	0.00		
			6,905					0.00	0.00	1 021 902.00	11 470 576 312.50	
	Total		6,905					0.00	0.00	1 021 902.00	11 470 576 312.50	
Future												
	Jun 2019	ZAKS	Future	2,166	0.1416	0.1410	0.0000	0.0000	0	0.00		
			2,166					0.00	0.00	38 066.00	515 662 000.00	
	Total		2,166					0.00	0.00	38 066.00	515 662 000.00	
Future												
	Dec 2018	ZATR	Future	12,000	2.2970	2.3039	0.0000	0.0000	0	0.00		
			12,000					0.00	0.00	383 239.00	1 228 466 169.00	
	Total		12,000					0.00	0.00	383 239.00	1 228 466 169.00	
Future												
	Dec 2018	ZAUM	Future	337	14.4859	14.4560	0.0000	0.0000	11	15,953,000.00		
	Mar 2019	ZAUM	Future	10	14.6653	14.6336	0.0000	0.0000	0	0.00		
			347					11.00	15,953,000.00	153 038.00	176 882 116 960.00	
	Total		347					11.00	15,953,000.00	157 561.00	176 882 116 960.00	
Future												
	Dec 2018	ZAUS	Future	831,165	14.4859	14.4560	14.5505	14.4600	33,925	492,042,083.00		
	Mar 2019	ZAUS	Future	39,528	14.6653	14.6336	14.6487	14.6404	586	8,578,729.80		
	Jun 2019	ZAUS	Future	19,040	14.8304	14.7985	0.0000	0.0000	0	0.00		
	Sep 2019	ZAUS	Future	20,642	15.0090	14.9771	0.0000	0.0000	0	0.00		
	Mar 2020	ZAUS	Future	3,966	15.3777	15.3487	0.0000	0.0000	0	0.00		
			914,341					34,511.00	500,620,812.80	187 327 069.00	2 242 583 469 432.20	
Option												
	Dec 2018	ZAUS	11.64 Put	2,764	4.1195	4.1444	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	11.75 Put	228,616	4.6641	4.7770	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	11.90 Put	11,300	5.5359	5.8066	0.0000	0.0000	0	0.00		
	Dec 2018	ZAUS	12.00 Put	174,530	6.2148	6.6209	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	12.02 Put	5,500	6.3613	6.7976	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	6.9863	7.5562	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	7.8643	8.6324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	8.3487	9.2304	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	9.7707	11.0018	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1997.2270	1968.9611	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	11.3270	12.9611	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	13.3355	15.5135	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	14.2129	16.6343	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	15.5528	18.3527	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	20.2456	24.4056	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1507.5580	1482.2351	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	21.6580	26.2351	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	23.1849	30.2570	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	27.0484	34.7802	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1322.1750	1301.3896	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	38.3805	47.7807	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1277.6137	1257.5459	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	41.7137	51.5459	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	50.3430	61.2023	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	51.6777	62.6853	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1105.7332	1088.6315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	69.8332	82.6315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1064.5330	1048.1788	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	78.6330	92.1788	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	98.5898	113.6105	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	116.9461	133.1116	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	121.8809	138.3273	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	134.8399	151.9761	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	848.9508	837.0533	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	145.8603	164.1590	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	834.6086	823.3029	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	148.7086	167.3029	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	180.1591	200.8516	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	733.2527	725.0785	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	701.4330	694.2821	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	215.5330	238.2821	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	254.8768	279.6104	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	263.2217	288.3412	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	623.3550	618.7658	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	276.0379	301.7283	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	280.3900	306.2685	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.20 Call	51,000	584.0907	580.8104	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	298.1907	324.8104	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	316.6179	343.9594	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	557.2237	554.8425	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	345.4304	373.8187	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	516.2579	515.2501	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	360.3579	389.2501	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	506.4024	505.7211	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	370.5024	399.7211	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	391.2441	421.1034	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	482.4217	482.5401	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	463.9125	464.6390	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	437.2490	439.6463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	451.3490	483.6463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	457.2274	489.6264	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	397.6085	400.9811	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,000	511.7085	544.9811	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	393.8363	397.2969	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	390.0953	393.6424	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	371.8977	375.8558	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	555.9977	589.8558	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	361.3689	365.5562	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	601.8771	636.2484	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	344.4584	348.9964	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	608.5584	642.9964	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	328.3142	333.1671	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	642.4142	677.1671	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	315.9349	321.0157	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	312.9139	318.0476	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	712.3250	747.6098	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	270.8831	276.6747	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	20,700	784.9831	820.6747	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	268.2929	274.1185	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	248.4486	254.5113	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	246.0746	252.1645	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	234.5567	240.7570	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	937.6931	973.7449	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	977.2640	1013.2496	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1017.2164	1053.2491	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	189.8699	196.0382	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	174.1557	180.3274	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	170.8540	177.0192	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.50 Call	5,000	167.6187	173.7774	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1181.7187	1217.7774	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	166.0254	172.1792	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	153.8441	159.9462	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	152.3902	158.4835	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	150.9510	157.0370	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	138.6365	144.6274	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	134.7755	140.7314	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1475.6942	1511.3928	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	120.4679	126.2503	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	113.9453	119.5433	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	50	104.4953	109.6258	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	93.7136	98.6538	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	90.9789	95.8644	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	85.7590	90.5326	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	82.4555	87.1528	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	60.4250	64.4888	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	48.0857	51.6802	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	39.8945	43.1177	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	4.3505	4.1816	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	14.7445	13.7460	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	44.8700	46.2787	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	47.4884	49.1735	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	80.7291	86.2044	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	82.8669	88.5947	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	91.8991	98.7046	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	97.9553	105.4837	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	106.9945	115.6033	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	111.0752	120.1713	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	128.0275	138.5483	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	151.6858	163.5325	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	175.6665	188.7564	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	185.9367	199.5359	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	199.3336	213.5748	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	213.3544	228.2435	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	237.1144	253.0473	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	243.3122	259.5065	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	249.6136	266.0696	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	259.2590	276.1113	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	272.4838	289.8607	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	296.6384	314.9396	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	311.0239	329.8485	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.00 Put	16,000	351.1544	371.6405	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	367.9912	389.1394	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	478.2519	503.3106	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	1,000	853.4416	847.1193	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	513.3319	539.4978	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	560.3120	587.8655	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	767.1598	763.6157	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	758.0831	754.8388	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	592.7831	621.2388	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	609.3592	638.2586	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	626.1543	655.4919	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	677.8597	708.4783	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	732.0269	763.5987	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	781.7300	814.1021	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	788.0454	820.5164	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	794.3827	826.9481	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	577.3862	579.3579	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	925.5577	959.9065	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	980.2971	1015.2885	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	987.2283	1022.2947	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	510.4342	514.1017	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1029.1989	1064.7170	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1036.2570	1071.8494	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1122.3780	1158.7909	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	433.9645	439.3736	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	431.5105	436.9599	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	421.8503	427.4483	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	412.4382	418.1771	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	385.6035	391.7204	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	354.8478	361.3530	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	339.6236	346.2994	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	319.9324	326.8048	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	297.9987	305.0214	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	270.2708	277.2677	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	258.2221	265.1866	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	230.6513	237.4837	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	228.0828	234.8999	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	187.0018	193.4600	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	185.9895	192.4339	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	181.0202	187.4072	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	175.2634	181.5771	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	174.3249	180.6241	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	17.10 Call	2,500	173.3899	179.6795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	161.7835	167.9074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	155.9144	161.9465	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	140.4931	146.2581	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	115.1850	120.2899	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	100.8018	105.4296	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	9.4827	9.1911	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	43.3022	44.7695	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	97.2188	102.1021	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	136.4891	143.8630	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	140.3602	147.9725	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	192.8414	203.6373	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	371.3073	388.9232	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	6,250	389.8532	408.0637	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1278.9834	1266.4836	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1045.6902	1040.0109	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	972.7324	968.8321	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	750.6242	779.1582	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	873.0462	871.5125	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	629.5090	633.0522	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	6,250	610.5258	614.5742	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	565.1496	569.9463	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	537.1385	542.3749	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	519.3947	524.9013	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	238.7646	246.3778	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	16.4612	16.1255	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	73.4012	72.7581	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	471.5809	490.1712	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	495.1643	514.5700	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	544.3521	565.3963	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	565.6364	587.3680	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	596.2137	618.9113	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	653.8075	677.8391	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	864.7043	892.3326	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1275.9280	1308.7862	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.55 Call	30,000	850.4300	852.5555	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1398.3483	1432.4398	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	758.3862	762.3168	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	479.2139	485.7199	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	420.8389	427.2864	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	394.5935	400.9680	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	385.1818	391.5224	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	18.29 Call	81,930	352.7684	359.0558	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.47 Call	1,200	339.0876	345.3487	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.63 Call	33,715	327.7857	334.0158	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.67 Call	141,127	325.0789	331.3014	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	19.32 Call	33,151	286.9276	292.9704	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	11.89 Put	1,000	34.0249	35.6014	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	13.66 Put	1,000	426.8976	444.4882	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38 Call	1,000	626.6402	634.3605	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	361.2072	367.2711	0.0000	0.0000	0	0.00	
			<u>7,836,092</u>					<u>0.00</u>	<u>0.00</u>	<u>60 256 741.00</u>
	Total		8,750,433					34,511.00	500,620,812.80	247 583 810.00
										2 242 583 469 432.20

Grand Total	10,487,087			36,697.00	552 310 026.00	338,034,963	3,112,535,090,023.82
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