



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 08-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Oct 2018	CC01	Future	25,000	697.5704	648.4223	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	17.0777	17.0050	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	550.5551	558.3934	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	777.0497	730.1006	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	19.4482	19.3137	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	14.8802	14.7624	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	235	14.8842	14.7664	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.9001	14.7804	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.9080	14.7875	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.9100	14.7892	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	4,209	14.9119	14.7910	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	55	14.9139	14.7927	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.9377	14.8138	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.9417	14.8183	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	120	14.9437	14.8206	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.9557	14.8342	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Nov 2018	DAUS	Future	461	14.9697	14.8501	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	8,824	14.9717	14.8523	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,672	14.9957	14.8789	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,714	15.0335	14.9155	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	15.0375	14.9194	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	15.0927	14.9740	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,020	15.0947	14.9760	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	15.1202	15.0015	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	5,787	15.1496	15.0309	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	15.2026	15.0839	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,029	15.2065	15.0878	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	15.2144	15.0956	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,280	15.2699	15.1510	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	55	15.3317	15.2124	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	15.3934	15.2738	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	15.4553	15.3346	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	15.5193	15.3970	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.5792	15.4556	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.6404	15.5156	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	15.7092	15.5832	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.7759	15.6488	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.8383	15.7101	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	15.9050	15.7757	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.9717	15.8412	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	16.0297	15.8983	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	16.1029	15.9702	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	16.2234	16.0887	0.0000	0.0000	0	0.00
			<u>129,469</u>					<u>0.00</u>	<u>0.00</u>
									<u>10 716 906.00</u>
									<u>131 187 232 234.50</u>
Option									
Oct 2018	DAUS	14.88 Put	314	169.9655	246.4714	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.96 Call	314	135.4539	103.1754	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.50 Put	20,000	62.4970	98.7871	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	1.5190	2.6371	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	903.8209	788.4998	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	2.3216	3.3900	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	18.4092	24.0589	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	1007.1834	893.4454	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	27.8545	35.5644	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	60.1604	82.7558	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.34 Put	171	79.6379	107.2560	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.44 Call	171	577.8887	490.6489	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	570.8089	484.1958	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	14.67 Call	250	428.8720	356.6420	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	255.6337	314.6048	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	309.2004	253.7948	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	263.6886	215.1879	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	25.1441	19.5228	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	9.1365	7.2222	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	0.1549	0.2058	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	27.4898	35.4768	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	20.6380	15.8536	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	132.3495	160.4287	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	626.5259	539.0379	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0788	0.1055	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.5593	0.7141	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1730.2126	1609.6524	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	503.4137	427.5216	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	492.7510	417.8981	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	418.2683	351.8224	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	364.5683	421.2224	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	455.4423	385.7820	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	594.6565	514.7181	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	10.1212	9.4335	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	53.0103	61.0520	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	60.1067	69.6350	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	993.7425	892.5156	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	144.5784	169.9474	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	831.1405	739.0233	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	533.0670	461.8114	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	523.1522	452.7529	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	84.9729	68.7672	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	46.1676	36.2894	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	776.5417	849.8554	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	78.0867	90.3942	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	172.5889	200.5675	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	429.7747	480.9185	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	674.7163	742.3737	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	47.9808	55.1085	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	77.9139	89.6741	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	457.5016	398.4599	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	269.5905	230.8949	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	97.8669	111.1735	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	199.5018	226.5045	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	461.1930	509.6388	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	15.30 Put	35,000	703.2487	767.0795	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	27.0407	27.7523	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	31.1648	31.7057	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	697.7398	619.9843	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	650.3161	575.8210	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	25.6602	25.8244	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	92.2796	103.4538	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	1004.8005	910.4743	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	200.3383	225.4834	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	513.1893	563.0231	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	134.1101	113.1545	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	83.4308	69.6051	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	21.0053	23.7671	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	40.0748	43.7533	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	250.7069	273.8990	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	1011.3532	921.7324	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	633.4561	567.3676	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	52.9921	57.4812	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	290.5538	313.1630	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	1025.5857	939.0917	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	676.3758	611.1762	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	50,000	243.4950	259.9487	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	63.8807	69.7245	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	327.6858	349.6524	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	1040.3216	956.6880	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	711.3240	647.0663	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	72.7535	82.2961	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1929.2713	1820.4386	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	362.0942	383.7890	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	1054.8891	974.4311	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	744.2153	681.7520	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	76.7245	91.4231	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	393.2031	414.5152	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	1069.1280	992.1936	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	773.6951	712.7669	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	612.7580	647.3459	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	483.6938	444.3238	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	83.5306	94.6256	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	418.7940	440.7038	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	1081.1896	1005.9693	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	796.8325	737.0473	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	172.7621	187.6156	0.0000	0.0000	0	0.00

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Jul 2019	DAUS	16.44 Call	39,250	677.7577	626.5430	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	86.9822	99.8288	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	446.6808	468.7813	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	1104.4878	1030.8414	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	828.9990	769.5123	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,950	550.1118	575.5581	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,950	802.2279	745.4863	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	93.4496	106.7594	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	470.6847	492.7400	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	1116.8156	1043.0684	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	849.9560	791.4462	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	400.2374	375.7565	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	105.7206	108.1103	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	491.3807	514.5690	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	1136.9223	1063.9519	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	877.1683	818.8476	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	115.8001	109.6460	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	512.3469	535.5424	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	1154.3299	1081.9904	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	903.4780	845.1418	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	128.8691	128.1389	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	530.2750	552.3196	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	1178.6254	1106.1549	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	933.3072	874.3300	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	143.1455	138.5760	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	547.9267	569.1102	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	1203.0821	1130.4660	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	966.0529	906.6111	0.0000	0.0000	0	0.00		
			<u>819,603</u>					<u>0.00</u>	<u>0.00</u>	<u>20 886 410.00</u>	<u>0.00</u>
Total			949,072					0.00	0.00	31 603 316.00	131 187 232 234.50
Future											
Dec 2018	EUUS	Future	40	1.1532	1.1575	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	30	1.3105	1.3119	1.3110	1.3110	500	6,555,000.00		
			<u>30</u>					<u>500.00</u>	<u>6,555,000.00</u>	<u>169 421.00</u>	<u>2 180 058 224.00</u>
Total			30					500.00	6,555,000.00	169 421.00	2 180 058 224.00

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Dec 2018	ZAAD	Future	36,596	10.6087	10.5203	0.0000	0.0000	0	0.00		
Mar 2019	ZAAD	Future	520	10.7547	10.6652	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,929	10.8977	10.8070	0.0000	0.0000	0	0.00		
			<u>42,045</u>					<u>0.00</u>	<u>0.00</u>	<u>3 738 882.00</u>	<u>32 581 534 031.60</u>
	Total		42,045					0.00	0.00	3 771 259.00	32 581 534 031.60
Future											
Dec 2018	ZACA	Future	600	11.5765	11.5244	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	2.3401	2.3297	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	109,996	17.2974	17.2265	17.4501	17.3884	65	1,133,147.00		
Mar 2019	ZAEU	Future	36,646	17.6613	17.5879	0.0000	0.0000	0	0.00		
Jun 2019	ZAEU	Future	5,256	18.0093	17.9337	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	6,834	18.3932	18.3122	0.0000	0.0000	0	0.00		
			<u>158,732</u>					<u>65.00</u>	<u>1,133,147.00</u>	<u>15 576 996.00</u>	<u>223 951 647 959.50</u>
Option											
Mar 2019	ZAEU	15.60 Put	462	106.4482	109.1238	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	1826.3467	1758.8085	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	649.7573	671.1044	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	327.2575	303.6391	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		160,768					65.00	1,133,147.00	26 371 560.00	223 951 647 959.50
Future											
Dec 2018	ZAFR	Future	1,648	15.1942	15.0912	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	15.8537	15.7454	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	439,388	19.6578	19.5248	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	Future	6,644	19.9986	19.8629	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	Future	5,856	20.3202	20.1820	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	10,363	20.6711	20.5262	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
			462,251					0.00	0.00	12 812 583.00	217 964 532 673.20
Option											
	Mar 2019	ZAGB	18.00 Put	500	223.6613	240.1223	0.0000	0.0000	0	0.00	
	Mar 2019	ZAGB	20.00 Call	500	957.6011	879.5174	0.0000	0.0000	0	0.00	
	Mar 2019	ZAGB	21.44 Call	500	489.1924	441.1585	0.0000	0.0000	0	0.00	
			1,500					0.00	0.00	1 775 613.00	0.00
	Total		463,751					0.00	0.00	14 588 196.00	217 964 532 673.20
Future											
	Dec 2018	ZAJY	Future	6,905	0.1332	0.1315	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	0.1469	0.1452	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	2.3420	2.3210	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	14.9997	14.8827	0.0000	0.0000	0	0.00	
	Mar 2019	ZAUM	Future	10	15.1849	15.0662	0.0000	0.0000	0	0.00	
			347					0.00	0.00	153 038.00	176 882 116 960.00
	Total		347					0.00	0.00	157 561.00	176 882 116 960.00
Future											
	Dec 2018	ZAUS	Future	852,813	14.9997	14.8827	15.0968	14.9625	36,156	543,180,430.70	
	Mar 2019	ZAUS	Future	44,792	15.1849	15.0662	15.2700	15.2100	955	14,522,850.00	
	Jun 2019	ZAUS	Future	18,950	15.3596	15.2401	15.3449	15.3449	14	215,590.60	
	Sep 2019	ZAUS	Future	20,642	15.5472	15.4243	0.0000	0.0000	100	1,554,970.00	
	Mar 2020	ZAUS	Future	3,966	15.9351	15.8053	0.0000	0.0000	0	0.00	
			941,163					37,225.00	559,473,841.30	187 543 483.00	2 245 799 824 952.00
Option											
	Dec 2018	ZAUS	11.64 Put	2,764	1.9466	2.5947	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	11.75 Put	228,616	2.4441	3.2613	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	11.90 Put	11,300	3.3148	4.4268	0.0000	0.0000	0	0.00	
	Dec 2018	ZAUS	12.00 Put	174,530	4.0470	5.0116	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	4.1652	5.1375	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	4.6742	5.6743	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	5.3983	6.4285	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	5.8017	6.8440	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	6.9970	8.0615	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	2508.0191	2392.0882	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	8.3191	9.3882	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	10.0370	11.0887	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	10.7891	11.8270	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	11.9388	12.9497	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	15.9522	16.8278	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	2016.8535	1900.6796	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	17.1535	17.9796	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	18.4459	19.2160	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	19.8368	20.5437	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1822.6457	1706.2029	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	23.6241	24.1482	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1774.3802	1657.8509	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	24.6802	25.1509	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	27.3342	27.6701	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	27.7365	28.0513	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1582.7527	1468.1657	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	33.0527	35.4657	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1535.2610	1423.2306	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	35.5610	40.5306	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	45.7671	52.3007	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	55.4324	63.4293	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	58.0729	66.4664	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	65.0879	74.5242	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	1289.2881	1182.3888	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	71.1381	81.4666	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	1272.4135	1165.9728	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	72.7135	83.2728	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	89.9106	102.9461	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	1149.2326	1046.6231	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	1109.5698	1008.3907	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	109.8698	125.6907	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	132.7808	151.6773	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	137.7315	157.2774	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	1009.9539	912.8286	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	145.3936	165.9319	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	148.0112	169.0066	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.20 Call	51,000	958.5047	864.3920	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	158.8047	181.6920	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	170.1163	194.9608	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	922.7263	831.0709	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	188.9181	215.9732	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	868.5794	779.6776	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	198.8794	226.9776	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	855.3995	767.1983	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	205.6995	234.4983	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	219.7699	249.9871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	823.0761	736.6502	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	797.8653	712.8799	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	761.1267	678.3310	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	261.4267	295.6310	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	265.4288	300.0025	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	702.7714	623.6814	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,000	303.0714	340.9814	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	697.1316	618.4169	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	691.5299	613.1883	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	664.0463	587.5774	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	334.3463	374.8774	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	647.9793	572.6378	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	367.3486	410.5110	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	621.9018	548.4421	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	372.2018	415.7421	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	596.6907	525.1095	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	396.9907	442.4095	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	577.1390	507.0584	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	572.3345	502.6302	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	449.1208	498.2809	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	504.2628	441.2690	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	30,700	504.5628	558.5690	0.0000	0.0000	10,000	0.00
Dec 2018	ZAUS	15.01 Call	10,000	500.0830	437.4708	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	467.7798	408.1868	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	463.8804	404.6600	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	444.8384	387.4637	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	626.8359	688.2761	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	659.2521	722.4744	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	692.3659	757.3360	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	369.5561	319.9150	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	342.4714	295.7877	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	336.7262	290.6832	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.50 Call	5,000	331.0746	285.6660	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	831.3746	902.9660	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	328.2844	283.1907	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	306.8008	264.1680	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	304.2165	261.8839	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	301.6541	259.6204	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	279.5633	239.9901	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	272.5744	233.7518	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1088.5458	1169.5808	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	246.1440	210.4325	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	233.9112	199.6972	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	10,050	216.7340	184.6622	0.0000	0.0000	10,000	0.00
Dec 2018	ZAUS	16.11 Call	38,250	197.5164	167.8999	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	192.5949	163.6183	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	183.1368	155.4002	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	177.1071	150.1713	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	135.5061	113.4226	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	110.0551	91.4245	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	92.7037	76.5384	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	1.8939	2.4114	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	9.4829	11.0671	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	24.6093	28.8135	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	26.4343	30.7570	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	50.8415	56.2032	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	52.4688	57.8759	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	59.4027	64.9815	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	64.0959	69.7737	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	71.1600	76.9637	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	74.3691	80.2250	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	85.9024	91.9074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	100.1582	106.3000	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	114.6507	120.8864	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	120.8763	127.1461	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	129.0218	135.3246	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	137.5755	143.9115	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	152.1457	162.0085	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	155.9700	166.7677	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	160.4784	171.6229	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	167.4062	179.0806	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	176.9548	189.3550	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	194.5338	208.2569	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	205.0826	219.5933	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.00 Put	16,000	233.0842	249.6589	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	244.9448	262.3805	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	296.2201	317.2896	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	324.1816	347.1723	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	1,000	1216.3156	1121.0982	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	349.9244	374.6620	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	384.7853	414.0387	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	1106.5588	1018.4286	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	1095.2789	1007.6771	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	410.3789	441.4771	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	423.6571	455.5529	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	437.1618	469.8581	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	479.0509	514.1604	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	522.9618	560.4996	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	563.6564	603.3561	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	568.8482	608.8201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	574.0677	614.3118	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	863.4338	788.2143	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	683.3485	728.9760	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	717.9014	0.0000	0.0000	0.0000	1,000	0.00
Mar 2019	ZAUS	15.12 Put	99,824	729.5958	777.3114	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	735.4755	783.4332	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	774.1054	704.3396	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	771.2002	820.6184	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	777.2293	826.8870	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	850.8883	903.7163	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	668.8364	606.3293	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	665.3615	603.1062	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	651.6422	590.4041	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	644.8983	584.1613	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	638.2240	577.9899	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	599.6955	542.4145	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	555.0125	501.2938	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	532.6733	480.8849	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	503.6709	454.4876	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	471.8113	425.4217	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	433.5714	390.6513	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	416.8318	375.4617	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	378.2006	340.5087	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	374.5775	337.2307	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	312.8973	279.8673	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	311.3241	278.4383	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	17.02 Call	262,812	303.5940	271.4232	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	294.5990	263.2661	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	293.1293	261.9366	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	291.6711	260.6118	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	273.4124	244.0847	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	264.1258	235.6893	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	239.5357	213.4973	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	188.9354	168.0354	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	160.4016	145.0761	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	165.3012	9.8812	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	462.2574	23.8647	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	592.7810	61.2872	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	664.4324	90.5364	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	670.9084	93.4805	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	751.7094	134.2659	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	974.7709	281.5190	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	6,250	995.2759	297.0197	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	2416.6357	1589.6895	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	2172.1974	1317.9864	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	2088.0464	1231.6004	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	1332.6620	596.3546	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	1966.4910	1115.6716	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	1630.2862	827.3362	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	6,250	1600.6202	803.9700	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	1526.3356	747.2373	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	1478.3897	711.9602	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	1447.1161	689.5176	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	837.0973	329.4242	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	12.2466	16.4957	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	35.5040	39.4214	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	355.6928	378.9393	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	379.1952	399.5696	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	422.5711	442.7995	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	440.6096	461.5919	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	466.6108	488.6700	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	513.2270	537.1650	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	682.2598	714.9535	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1046.8757	1094.3480	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.55 Call	30,000	1149.4571	1074.9662	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1158.4345	1207.0286	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	1033.9668	965.3058	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	675.3156	627.7865	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	17.64 Call	5,000	597.1731	554.8273	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	17.85 Call	2,700	561.6636	521.7549	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	17.93 Call	2,571	548.8666	509.8521	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.29 Call	81,930	495.8637	460.6302	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.47 Call	1,200	471.9482	438.4681	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.63 Call	33,715	452.0093	423.3443	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	18.67 Call	141,127	447.7115	419.9056	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	19.32 Call	33,151	394.4488	371.2866	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	11.89 Put	1,000	40.1287	37.8784	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	13.66 Put	1,000	310.5602	322.7007	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38 Call	1,000	848.7846	794.6182	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	499.5577	477.2617	0.0000	0.0000	0	0.00	
			<u>7,859,094</u>					<u>21,000.00</u>	<u>0.00</u>	<u>60 279 743.00</u>
		Total	8,800,257					58,225.00	559,473,841.30	247 823 226.00
										2 245 799 824 952.90

Grand Total			10,558,701					58,790.00	567 161 988.30	338,301,705	3,115,877,134,103.02
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