



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 16-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Nov 2018	DAEU	Future	37	16.5977	16.6925	0.0000	0.0000	0	0.00		
			37					0.00	0.00	801 399.00	11 967 156 360.40
Option											
Aug 2019	DAEU	17.01 Put	31,200	787.7731	702.1391	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	549.6477	602.8868	0.0000	0.0000	0	0.00		
			93,600					0.00	0.00	1 390 587.00	0.00
		Total	93,637					0.00	0.00	2 191 986.00	11 967 156 360.40
Future											
Nov 2018	DAGB	Future	13	18.8081	18.9078	0.0000	0.0000	0	0.00		
			13					0.00	0.00	53 954.00	889 067 608.60
		Total	13					0.00	0.00	261 267.00	889 067 608.60
Future											
Oct 2018	DAUS	Future	235	14.2067	14.3625	0.0000	0.0000	166	2,365,500.00		
Oct 2018	DAUS	Future	70	14.2175	14.3752	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.2247	14.3826	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.2265	14.3845	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	3,858	14.2284	14.3863	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	55	14.2302	14.3882	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.2520	14.4105	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.2556	14.4143	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.2574	14.4161	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.2684	14.4273	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	166	14.2795	14.3280	0.0000	0.0000	166	2,378,448.00		
Nov 2018	DAUS	Future	461	14.2813	14.4404	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	8,824	14.2832	14.4423	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	500	14.2961	14.4554	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.3053	14.4647	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,714	14.3403	14.5005	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	Future	55	14.3439	14.5043	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.3954	14.5568	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,020	14.3973	14.5587	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.4212	14.5830	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,787	14.4488	14.6110	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.4984	14.6614	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.5021	14.6652	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.5095	14.6726	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.5608	14.7248	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.6172	14.7822	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.6736	14.8397	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.7298	14.8977	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.7876	14.9581	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.8417	15.0147	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.8971	15.0720	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.9623	15.1382	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0255	15.2024	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0846	15.2624	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.1478	15.3266	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2109	15.3908	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2660	15.4467	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.3352	15.5171	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.4494	15.6330	0.0000	0.0000	0	0.00		
			<u>125,658</u>					<u>332.00</u>	<u>4,743,948.00</u>	<u>10 725 099.00</u>	<u>131 305 373 460.50</u>
Option											
Oct 2018	DAUS	14.50 Put	20,000	320.3792	209.4019	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.20 Put	1,630	0.7831	0.5228	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.00 Call	1,630	266.8753	403.9586	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.00 Put	500	4.0824	3.6382	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.80 Put	1,000	58.0330	35.8721	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.93 Call	500	392.2152	517.2157	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.97 Put	600	107.2397	70.6315	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.25 Put	250	234.5719	168.7857	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.34 Put	171	288.6053	212.0278	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.44 Call	171	143.1967	213.3986	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.45 Call	600	140.1461	209.3437	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.67 Call	250	86.1607	135.3445	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.82 Put	114	652.7797	532.9765	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.90 Call	600	50.8484	83.8964	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	15.01 Call	114	38.9808	66.3922	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	16.47 Call	500	1.5071	2.3624	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	17.02 Call	500	0.6421	0.9794	0.0000	0.0000	0	0.00		

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Nov 2018	DAUS	11.90 Put	1,880	0.2352	0.2147	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	96.4089	64.9754	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	1.6232	2.7826	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	365.7807	289.9880	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	224.7012	294.4587	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0565	0.0013	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.3483	0.3344	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1060.5265	1212.0457	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	169.2995	224.4927	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	164.5668	218.5546	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	132.9550	178.5279	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	765.5550	652.4279	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	153.4218	202.7208	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	227.2728	290.9803	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	17.4684	11.3569	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	162.8055	123.7384	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	180.4066	138.2797	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	479.2820	581.4896	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	362.1186	294.0371	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	373.0086	460.7578	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	210.2464	265.7370	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	205.4246	259.8916	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	19.6737	28.6213	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	9.0624	13.7771	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	1268.4817	1141.3177	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	214.5779	168.1670	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	405.9198	334.7259	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	815.4717	708.6211	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1140.4529	1018.3653	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	140.0280	108.1146	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	210.6655	165.8547	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	188.5098	235.1286	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	99.4434	127.1369	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	246.1468	197.2766	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	438.5493	368.0657	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	839.2401	736.2461	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1156.2893	1038.9415	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	62.2639	46.7233	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	78.3567	59.6113	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	330.1977	398.0458	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	303.2135	366.7964	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	45.7236	35.7762	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	13.80 Put	1,000	225.2281	181.0924	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	534.8073	628.8219	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	430.4725	362.7110	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	897.8196	794.4216	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	49.2741	63.3222	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	25.1232	37.2282	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	35.5675	31.8093	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	74.0975	61.2898	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	460.5027	394.6879	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	486.9122	418.7902	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	576.3520	663.7052	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	334.1153	390.5886	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	261.8561	308.1778	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	99.1847	83.5712	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	504.2364	436.6608	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	530.6713	460.9832	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	613.9670	695.0581	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	382.5025	437.1767	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	306.8573	352.1557	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	50,000	440.9893	380.0222	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	125.9068	105.6963	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	543.1612	474.1823	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	569.5484	498.6337	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	647.2241	723.5982	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	423.4374	476.1937	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	349.3498	393.7251	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	150.5836	125.8472	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1350.4832	1473.0301	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	579.0277	508.8738	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	605.3408	533.4221	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	677.7719	750.3737	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	462.2651	513.5431	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	391.6681	435.6131	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	171.3565	141.6557	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	611.0864	539.5722	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	637.4264	564.2464	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	705.6490	775.0454	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	497.7352	547.4383	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	425.9935	469.9460	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	927.3872	839.8615	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	304.0387	335.4541	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	186.0933	154.1174	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	14.20 Put	250	636.1851	564.9052	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	662.5383	589.6326	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	727.4440	794.4108	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	525.8077	574.3767	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	455.0000	499.2552	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	324.3924	281.5229	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	443.2735	486.2953	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	201.3465	168.6460	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	663.7105	591.8022	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	690.0252	616.5549	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	757.4481	822.6077	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	560.6976	608.5915	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	490.5239	534.1581	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,950	827.2761	746.6029	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,950	545.4198	591.9085	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	220.1320	178.2356	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	687.0157	614.4470	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	713.2756	639.1772	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	776.2188	839.8338	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	585.2486	632.9321	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	514.5808	557.7649	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	288.3787	306.5969	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	234.7490	192.7305	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	707.8983	636.2062	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	734.0798	659.2577	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	801.3433	863.8834	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	612.7642	661.2130	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	540.4352	583.2584	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	249.3101	207.7534	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	730.1482	659.3265	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	756.3032	682.4994	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	824.0974	885.5815	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	639.0732	687.3776	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	569.1580	612.3279	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	265.4647	221.6138	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	750.8142	681.1013	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	776.9203	704.6521	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	853.9787	914.7714	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	670.7815	719.0606	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	602.3292	645.3948	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	282.3747	238.3304	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	771.6634	701.1569	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	14.25 Put	250	796.6569	724.8475	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	883.7619	943.9686	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	704.8504	752.9848	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	637.9080	681.0501	0.0000	0.0000	0	0.00		
			<u>824,975</u>					<u>0.00</u>	<u>0.00</u>	<u>20 892 410.00</u>	<u>0.00</u>
	Total		950,633					332.00	4,743,948.00	31 617 509.00	131 305 373 460.50
Future											
Dec 2018	EUUS	Future	40	1.1633	1.1635	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	1.3247	1.3173	0.0000	0.0000	0	0.00		
			<u>30</u>					<u>0.00</u>	<u>0.00</u>	<u>169 421.00</u>	<u>2 180 058 224.00</u>
	Total		30					0.00	0.00	169 421.00	2 180 058 224.00
Future											
Dec 2018	ZAAD	Future	36,596	10.2234	10.3376	10.2706	10.2400	15	153,687.40		
Mar 2019	ZAAD	Future	420	10.3602	10.4768	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,929	10.4928	10.6112	0.0000	0.0000	0	0.00		
			<u>41,945</u>					<u>15.00</u>	<u>153,687.40</u>	<u>3 739 271.00</u>	<u>32 585 644 768.80</u>
	Total		41,945					15.00	153,687.40	3 771 648.00	32 585 644 768.80
Future											
Dec 2018	ZACA	Future	600	11.0741	11.1537	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	2.2532	2.2795	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	108,082	16.6458	16.8342	16.8177	16.7150	567	9,514,068.30		
Mar 2019	ZAEU	Future	36,311	16.9959	17.1904	17.0350	17.0350	355	6,071,960.00		
Jun 2019	ZAEU	Future	4,906	17.3230	17.5233	0.0000	0.0000	350	6,107,115.00		
Sep 2019	ZAEU	Future	6,834	17.6826	17.8911	0.0000	0.0000	350	6,230,455.00		
			<u>156,133</u>					<u>1,622.00</u>	<u>27,923,598.30</u>	<u>15 582 782.00</u>	<u>224 050 736 243.00</u>
Option											

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Mar 2019	ZAEU	15.60 Put	462	173.8498	143.5763	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	16.00 Call	650	1279.6365	1429.9367	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	17.33 Put	462	957.9358	851.1212	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	19.65 Call	462	185.1809	216.2219	0.0000	0.0000	0	0.00	
			2,036					0.00	0.00	10 794 564.00
		Total	158,169					1,622.00	27,923,598.30	26 377 346.00 224 050 736 243.00
Future										
Dec 2018	ZAFR	Future	1,748	14.5297	14.7226	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	15.1529	15.3573	0.0000	0.0000	0	0.00	
			1,898					0.00	0.00	620 576.00 6 667 908 161.60
		Total	1,898					0.00	0.00	620 576.00 6 667 908 161.60
Future										
Dec 2018	ZAGB	Future	439,602	18.9552	19.0592	19.0300	19.0300	351	6,687,755.00	
Mar 2019	ZAGB	Future	6,644	19.2813	19.3892	0.0000	0.0000	350	6,781,040.00	
Jun 2019	ZAGB	Future	5,506	19.5842	19.6962	0.0000	0.0000	350	6,892,095.00	
Sep 2019	ZAGB	Future	10,363	19.9105	20.0307	0.0000	0.0000	350	7,004,900.00	
			462,115					1,401.00	27,365,790.00	12 825 019.00 218 204 353 630.40
Option										
Dec 2018	ZAGB	19.30 Call	200	401.1510	457.8532	0.0000	0.0000	0	0.00	
Dec 2018	ZAGB	21.00 Call	400	79.5861	98.8812	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	18.00 Put	500	335.9059	319.9815	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	594.9873	648.4786	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	276.9962	309.2619	0.0000	0.0000	0	0.00	
			2,100					0.00	0.00	1 776 213.00 0.00
		Total	464,215					1,401.00	27,365,790.00	14 601 232.00 218 204 353 630.40
Future										
Dec 2018	ZAJY	Future	6,905	0.1281	0.1300	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	0.1403	0.1415	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	2.4025	2.4091	0.0000	0.0000	0	0.00	
			12,000					0.00	0.00	383 239.00 1 228 466 169.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Total			12,000					0.00	0.00	383 239.00	1 228 466 169.00
Future											
Dec 2018	ZAUM	Future	331	14.3090	14.4685	0.0000	0.0000	12	17,308,800.00		
Mar 2019	ZAUM	Future	10	14.4819	14.6446	0.0000	0.0000	0	0.00		
			341					12.00	17,308,800.00	153 061.00	176 915 678 860.00
Total			341					12.00	17,308,800.00	157 584.00	176 915 678 860.00
Future											
Dec 2018	ZAUS	Future	818,695	14.3090	14.4685	14.4815	14.3316	98,444	1,419,240,415.10		
Mar 2019	ZAUS	Future	53,682	14.4819	14.6446	14.6000	14.4901	2,553	37,162,591.50		
Jun 2019	ZAUS	Future	19,100	14.6426	14.8082	0.0000	0.0000	238	3,510,449.60		
Sep 2019	ZAUS	Future	20,642	14.8129	14.9845	0.0000	0.0000	113	1,680,662.20		
Mar 2020	ZAUS	Future	3,966	15.1763	15.3556	0.0000	0.0000	0	0.00		
			916,085					101,348.00	1,461,594,118.40	187 921 800.00	2 251 352 581 486.80
Option											
Dec 2018	ZAUS	11.64 Put	2,764	3.3548	3.1170	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	11.75 Put	228,616	3.9184	3.6619	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	11.90 Put	11,300	4.8516	4.5658	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.00 Put	174,530	5.6015	5.2931	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.02 Put	5,500	5.7656	5.4523	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.10 Put	8,580	6.4751	6.1403	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.20 Put	7,300	7.4944	7.1281	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.25 Put	3,300	8.0665	7.6824	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.38 Put	39,589	9.7839	9.3422	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.50 Call	228,616	1820.7180	1979.7061	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.50 Put	26,400	11.7180	11.2061	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.63 Put	39,589	14.2850	13.6673	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.68 Put	10,000	15.4275	14.7587	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.75 Put	1,000	17.1946	16.4409	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	12.95 Put	500	27.2677	22.4445	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.00 Call	6,000	1340.5375	1492.7764	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.00 Put	177,520	31.5375	24.2764	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.05 Put	1,500	36.3151	26.2655	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.10 Put	11,300	41.6387	30.3460	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.20 Call	7,100	1163.0746	1308.4930	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.22 Put	5,500	56.8687	42.1795	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.25 Call	10,000	1120.2613	1264.1311	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.25 Put	17,800	61.2613	45.6311	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.32 Put	13,650	72.4957	54.5228	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.33 Put	135,000	74.2163	55.8926	0.0000	0.0000	0	0.00		
Dec 2018	ZAUS	13.45 Call	500	956.2871	1092.9326	0.0000	0.0000	0	0.00		

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Dec 2018	ZAUS	13.45 Put	4,080	97.2871	74.4326	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	917.2800	1051.8678	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	108.2800	83.3678	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	132.8626	103.5396	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	156.4474	122.0168	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	162.7388	126.9750	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	179.1704	139.9807	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	193.0442	151.0230	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	705.6148	822.3782	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	196.6148	153.8782	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	234.5564	186.3184	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	614.0619	722.5228	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	585.5847	691.2279	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	276.5847	222.7279	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	322.6668	263.1396	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	332.3631	271.6990	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	516.2719	614.5394	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	347.2058	284.8395	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	352.2329	289.2990	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	481.7279	576.0318	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	372.7279	307.5318	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	393.8450	326.3928	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	458.2208	549.7056	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	426.6627	355.8478	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	423.0443	509.5951	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	444.0443	371.0951	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	414.8152	499.9500	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	455.8152	381.4500	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	479.7926	402.6114	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	394.8754	476.4951	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	379.5655	458.3967	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	357.6291	432.3407	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	548.6291	463.8407	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	555.0894	469.7587	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	323.7017	393.0871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,500	614.7017	524.5871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	320.4841	389.3496	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	317.2950	385.6454	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	301.8095	367.6170	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	662.8095	569.1170	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	292.8730	357.1863	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	712.3570	615.2176	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.75 Call	127,100	278.5471	340.4250	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	719.5471	621.9250	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	264.9130	324.4246	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	755.9130	655.9246	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	254.4828	312.1525	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	251.9409	309.1560	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	830.6034	726.0923	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	216.7239	267.4737	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	907.7239	798.9737	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	214.5248	264.9030	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	197.6922	245.2141	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	195.6851	242.8596	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	185.9474	231.4282	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1067.7033	952.0477	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1108.9284	991.6922	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1150.5988	1031.6027	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	148.6513	186.7979	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	135.7123	171.0114	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	132.9995	167.6942	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	130.3453	164.4435	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1321.3453	1195.9435	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	129.0384	162.8436	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	119.0733	150.6053	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	117.8857	149.1455	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	116.7122	147.6989	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	106.6867	135.3303	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	103.5532	131.4555	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1623.2846	1489.7236	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	91.3128	117.0926	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	85.6979	110.5501	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,050	77.9324	101.1395	0.0000	0.0000	5,000	0.00
Dec 2018	ZAUS	16.11 Call	38,250	69.4189	90.4718	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	67.2689	87.7691	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	63.1749	82.6102	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	60.5910	79.3472	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.50 Call	1,000	46.2913	61.1731	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	43.5302	57.6396	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	34.1284	45.5354	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	27.9650	37.5323	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	3.2740	3.1047	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	14.1895	12.1765	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	52.6671	44.2914	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	12.51 Put	720	56.1553	47.2075	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	100.9983	84.8559	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	103.8966	87.3006	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	116.1457	97.6502	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	124.3535	104.5981	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	138.7419	114.9806	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	145.2495	119.6715	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	168.4663	138.1491	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	188.7707	155.8381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	196.7905	162.8557	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	225.1555	187.7972	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	237.2146	198.4533	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	252.8665	212.3288	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	269.1673	226.8322	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	296.6087	251.3511	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	303.7329	257.7349	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	310.9595	264.2245	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	322.0040	274.1509	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	337.0953	287.7474	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	366.2027	312.5433	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	383.6019	327.2861	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	429.0554	368.6314	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	448.0097	385.9471	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	528.1307	459.5813	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	570.7143	498.9768	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	763.5172	853.6888	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	609.3138	534.8230	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	660.7270	582.7551	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	666.5592	588.2068	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	686.1025	769.3109	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	677.9842	760.4333	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	696.0842	615.8333	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	714.1741	632.7058	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	732.4686	649.7962	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	788.5850	702.3492	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	846.4804	757.0355	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	892.6986	800.8218	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	899.3852	807.1653	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	906.0883	813.5267	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	912.8153	819.9132	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	516.9537	582.7723	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	507.9427	572.7971	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Mar 2019	ZAUS	15.04 Put	77,255	1051.3992	951.9701	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1094.4200	993.1325	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1108.9012	1007.0034	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1116.1695	1013.9686	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	457.3067	516.6096	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1160.1265	1056.1373	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1167.5096	1063.2299	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1257.4877	1149.6885	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	389.4310	440.7923	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	387.2269	438.3424	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	378.5577	428.6987	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	374.3061	423.9653	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	370.1089	419.2945	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	346.0274	392.4599	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	318.4360	361.6530	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	314.9553	357.7645	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	304.7758	346.3834	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	286.4900	326.6065	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	265.6251	304.5495	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	240.8239	276.6196	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	230.0526	264.4630	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	205.4138	236.6063	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	203.1198	234.0058	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	166.4340	192.3627	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	165.5317	191.3335	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	161.0962	186.2846	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	155.9550	180.4287	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	155.1188	179.4733	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	154.2856	178.5262	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	143.9256	166.7079	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	138.6890	160.7286	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	126.5767	144.9937	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	105.6265	119.4796	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	92.8146	105.0166	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.5193	8.3094	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	54.9681	42.2647	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	124.9690	101.3936	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	175.0352	145.0446	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	179.9275	149.3512	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	244.8420	207.7537	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	448.3341	394.0455	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	6,250	469.0556	413.1631	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>		
Jun 2019	ZAUS	13.98 Call	1,000	1177.2061	1281.2194	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.42 Call	30	966.5767	1053.8848	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	899.9437	982.2591	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.63 Put	8,203	867.5410	782.7380	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	808.2752	884.1746	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.55 Call	25,000	586.7510	642.8888	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	6,250	569.5937	624.1496	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	528.1665	578.8526	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	502.5813	550.8438	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	486.3727	533.0811	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	229.4359	250.3918	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	14.9555	14.7086	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	105.1913	80.5015	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	560.5085	501.7329	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	586.7700	526.3167	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	642.6278	577.4870	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	667.8026	599.5949	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	703.8536	631.3101	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	767.7904	690.3402	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	993.2591	904.5911	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1422.8452	1319.6147	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.55 Call	30,000	805.7647	870.2687	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1550.0633	1442.7172	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	721.7570	778.9763	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	461.0286	498.3567	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	406.3798	438.9259	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	384.1599	412.1125	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	377.1896	402.4821	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	348.6414	369.5547	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	335.9379	355.6686	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	325.4311	344.1834	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	322.9111	341.4288	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	282.8198	302.5358	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	56.6183	46.5523	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	517.6320	462.7070	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	611.4276	654.2399	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	347.2588	380.6217	0.0000	0.0000	0	0.00		
			<u>8,255,973</u>					<u>5,000.00</u>	<u>0.00</u>	<u>60 711 622.00</u>	<u>0.00</u>
	Total		9,172,058					106,348.00	1,461,594,118.40	248 633 422.00	2 251 352 581 486.80

<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>
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Grand Total		10,904,890					109,730.00	1 539 089 942.10	339,170,560	3,121,945,990,517.02
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