



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 15-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Oct 2018	CC01	Future	0	700.0000	698.3425	0.0000	0.0000	25,000	17,500,000.00		
			0					25,000.00	17,500,000.00	50 000.00	25 330 750.00
		<b>Total</b>	<b>0</b>					<b>25,000.00</b>	<b>17,500,000.00</b>	50 000.00	25 330 750.00
<b>Future</b>											
Nov 2018	DAEU	Future	37	16.6925	16.7715	0.0000	0.0000	0	0.00		
			37					0.00	0.00	801 399.00	11 967 156 360.40
<b>Option</b>											
Aug 2019	DAEU	17.01 Put	31,200	702.1391	673.4794	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	602.8868	632.8643	0.0000	0.0000	0	0.00		
			93,600					0.00	0.00	1 390 587.00	0.00
		<b>Total</b>	<b>93,637</b>					<b>0.00</b>	<b>0.00</b>	2 191 986.00	11 967 156 360.40
<b>Future</b>											
Oct 2018	DAGB	Future	0	18.9437	19.0195	0.0000	0.0000	48	909,297.60		
Nov 2018	DAGB	Future	13	18.9078	19.0567	0.0000	0.0000	0	0.00		
			13					48.00	909,297.60	53 954.00	889 067 608.60
		<b>Total</b>	<b>13</b>					<b>48.00</b>	<b>909,297.60</b>	261 267.00	889 067 608.60
<b>Future</b>											
Oct 2018	DAUS	Future	0	14.4030	14.4568	0.0000	0.0000	6,814	98,130,042.00		
Oct 2018	DAUS	Future	235	14.3625	14.4568	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.3752	14.4716	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.3826	14.4791	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.3845	14.4810	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	3,858	14.3863	14.4829	0.0000	0.0000	461	6,678,815.00		
Nov 2018	DAUS	Future	55	14.3882	14.4848	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.4105	14.5075	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.4143	14.5113	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.4161	14.5132	0.0000	0.0000	0	0.00		

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Nov 2018	DAUS	Future	179	14.4273	14.5246	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	461	14.4404	14.5378	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	8,824	14.4423	14.5397	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	500	14.4554	14.6565	0.0000	0.0000	500	7,328,250.00
Dec 2018	DAUS	Future	3,672	14.4647	14.5625	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,714	14.5005	14.5985	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.5043	14.6023	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.5568	14.6550	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,020	14.5587	14.6569	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	14.5830	14.6811	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	5,787	14.6110	14.7091	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	14.6614	14.7594	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,029	14.6652	14.7631	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	14.6726	14.7706	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,280	14.7248	14.8229	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	55	14.7822	14.8809	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	14.8397	14.9390	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	14.8977	14.9973	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	14.9581	15.0578	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.0147	15.1145	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.0720	15.1724	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	15.1382	15.2394	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.2024	15.3043	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.2624	15.3650	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	15.3266	15.4298	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.3908	15.4947	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.4467	15.5512	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	15.5171	15.6224	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	15.6330	15.7396	0.0000	0.0000	0	0.00
			<u>125,492</u>					<u>7,775.00</u>	<u>112,137,107.00</u>
									<u>10 724 767.00</u>
									<u>131 300 629 512.50</u>
<b>Option</b>									
Oct 2018	DAUS	14.50 Put	20,000	209.4019	173.4975	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	0.5228	1.3085	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	403.9586	499.4808	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	3.6382	4.3949	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	35.8721	32.8535	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	517.2157	607.6660	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	70.6315	63.2413	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	168.7857	149.1155	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.34 Put	171	212.0278	187.2966	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.44 Call	171	213.3986	278.7627	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	209.3437	273.9692	0.0000	0.0000	0	0.00

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Oct 2018	DAUS	14.67 Call	250	135.3445	186.2343	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	532.9765	478.9212	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	83.8964	122.3040	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	66.3922	99.5394	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	2.3624	5.0062	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	0.9794	1.8048	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	0.2147	0.2477	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	64.9754	56.8578	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	2.7826	4.7584	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	289.9880	255.2717	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	294.4587	347.5416	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0013	0.0773	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.3344	0.4561	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1212.0457	1307.9943	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	224.4927	268.7207	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	218.5546	261.9967	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	178.5279	216.3601	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	652.4279	593.1601	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	202.7208	242.7025	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	290.9803	339.5477	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	11.3569	11.9932	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	123.7384	107.9027	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	138.2797	120.8516	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	581.4896	653.3497	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	294.0371	261.9003	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	460.7578	524.0280	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	265.7370	308.3349	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	259.8916	301.8081	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	28.6213	37.2355	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	13.7771	18.7760	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	1141.3177	1069.6158	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	168.1670	148.1999	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	334.7259	300.2197	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	708.6211	651.0668	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1018.3653	950.2995	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	108.1146	95.0451	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	165.8547	146.5274	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	235.1286	270.4919	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	127.1369	149.1998	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	197.2766	175.3692	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	368.0657	332.5352	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	736.2461	679.3899	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	15.30 Put	35,000	1038.9415	971.6479	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	46.7233	40.4713	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	59.6113	51.8905	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	398.0458	446.5806	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	366.7964	412.4611	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	35.7762	34.5660	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	181.0924	161.9326	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	628.8219	693.3762	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	362.7110	328.2537	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	794.4216	736.2578	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	63.3222	73.7643	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	37.2282	44.5008	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	31.8093	30.6719	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	61.2898	58.0811	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	394.6879	360.7890	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	418.7902	383.4963	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	663.7052	722.9875	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	390.5886	429.4741	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	308.1778	339.9911	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	83.5712	78.7048	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	436.6608	403.4037	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	460.9832	426.5078	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	695.0581	752.1618	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	437.1767	476.8007	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	352.1557	384.9949	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	50,000	380.0222	351.9970	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	105.6963	98.5666	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	474.1823	441.8738	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	498.6337	465.2386	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	723.5982	779.1201	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	476.1937	515.9952	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	393.7251	427.1484	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	125.8472	116.0454	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1473.0301	1554.0636	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	508.8738	477.2090	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	533.4221	500.7647	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	750.3737	804.5078	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	513.5431	553.0046	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	435.6131	469.6314	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	141.6557	131.6948	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	539.5722	507.5860	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	564.2464	531.3408	0.0000	0.0000	0	0.00

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May 2019	DAUS	15.01 Call	500	775.0454	827.7170	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	547.4383	586.8078	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	469.9460	504.2209	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	839.8615	799.5207	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	335.4541	361.4237	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	154.1174	142.7147	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	564.9052	533.0793	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	589.6326	556.9247	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	794.4108	845.9095	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	574.3767	613.3394	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	499.2552	533.6083	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	281.5229	264.1307	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	486.2953	520.6850	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	168.6460	153.5180	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	591.8022	561.8843	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	616.5549	584.2028	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	822.6077	873.2094	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	608.5915	647.6062	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	534.1581	570.0177	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,950	746.6029	710.6899	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,950	591.9085	629.2603	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	178.2356	160.9413	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	614.4470	586.2762	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	639.1772	608.5712	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	839.8338	889.5569	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	632.9321	671.5648	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	557.7649	593.4375	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	306.5969	326.0458	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	192.7305	174.9038	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	636.2062	608.6891	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	659.2577	631.0059	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	863.8834	912.8798	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	661.2130	700.0106	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	583.2584	619.2201	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	207.7534	188.2701	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	659.3265	631.9499	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	682.4994	654.4233	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	885.5815	933.9534	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	687.3776	727.0481	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	612.3279	648.4622	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	221.6138	205.5320	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	681.1013	653.0531	0.0000	0.0000	0	0.00

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Nov 2019	DAUS	14.25 Put	250	704.6521	675.8977	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	16.03 Call	500	914.7714	962.7165	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	16.87 Call	250	719.0606	759.0024	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	17.26 Call	250	645.3948	682.0520	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	13.00 Put	500	238.3304	223.4734	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.20 Put	250	701.1569	673.2647	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	724.8475	696.2048	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	943.9686	991.5897	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	752.9848	792.8962	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	681.0501	717.9075	0.0000	0.0000	0	0.00	
			<u>824,975</u>					0.00	0.00	20 892 410.00
		<b>Total</b>	<b>950,467</b>					<b>7,775.00</b>	<b>112,137,107.00</b>	31 617 177.00 131 300 629 512.50
<b>Future</b>										
Dec 2018	EUUS	Future	40	1.1635	1.1614	0.0000	0.0000	0	0.00	
			<u>40</u>					0.00	0.00	744 445.00 8 445 126 755.00
		<b>Total</b>	<b>40</b>					<b>0.00</b>	<b>0.00</b>	744 445.00 8 445 126 755.00
<b>Future</b>										
Dec 2018	GBUS	Future	30	1.3173	1.3190	0.0000	0.0000	0	0.00	
			<u>30</u>					0.00	0.00	169 421.00 2 180 058 224.00
		<b>Total</b>	<b>30</b>					<b>0.00</b>	<b>0.00</b>	169 421.00 2 180 058 224.00
<b>Future</b>										
Dec 2018	ZAAD	Future	36,597	10.3376	10.3714	0.0000	0.0000	0	0.00	
Mar 2019	ZAAD	Future	420	10.4768	10.5105	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	4,929	10.6112	10.6452	0.0000	0.0000	0	0.00	
			<u>41,946</u>					0.00	0.00	3 739 256.00 32 585 491 081.40
		<b>Total</b>	<b>41,946</b>					<b>0.00</b>	<b>0.00</b>	3 771 633.00 32 585 491 081.40
<b>Future</b>										
Dec 2018	ZACA	Future	600	11.1537	11.1956	0.0000	0.0000	0	0.00	
			<u>600</u>					0.00	0.00	137 653.00 1 355 055 071.60
		<b>Total</b>	<b>600</b>					<b>0.00</b>	<b>0.00</b>	137 653.00 1 355 055 071.60
<b>Future</b>										
Dec 2018	ZADK	Future	240	2.2795	2.2912	0.0000	0.0000	0	0.00	
			<u>240</u>					0.00	0.00	12 335.00 265 809 909.00
		<b>Total</b>	<b>240</b>					<b>0.00</b>	<b>0.00</b>	12 335.00 265 809 909.00

Future

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Dec 2018	ZAEU	Future	108,299	16.8342	16.9169	16.9224	16.8900	394	6,680,099.30
Mar 2019	ZAEU	Future	36,666	17.1904	17.2732	0.0000	0.0000	0	0.00
Jun 2019	ZAEU	Future	5,256	17.5233	17.6070	0.0000	0.0000	0	0.00
Sep 2019	ZAEU	Future	6,834	17.8911	17.9753	0.0000	0.0000	0	0.00
			<u>157,055</u>					<u>394.00</u>	<u>6,680,099.30</u>
<b>Option</b>									<u>15 581 160.00</u>
Mar 2019	ZAEU	15.60 Put	462	143.5763	138.4693	0.0000	0.0000	0	0.00
Mar 2019	ZAEU	16.00 Call	650	1429.9367	1503.0218	0.0000	0.0000	0	0.00
Mar 2019	ZAEU	17.33 Put	462	851.1212	816.0645	0.0000	0.0000	0	0.00
Mar 2019	ZAEU	19.65 Call	462	216.2219	237.0454	0.0000	0.0000	0	0.00
			<u>2,036</u>					<u>0.00</u>	<u>0.00</u>
<b>Total</b>			<b>159,091</b>					<b>394.00</b>	<b>6,680,099.30</b>
									<u>26 375 724.00</u>
									<u>224 022 812 644.70</u>
<b>Future</b>									
Dec 2018	ZAFR	Future	1,748	14.7226	14.7589	0.0000	0.0000	0	0.00
Jun 2019	ZAFR	Future	150	15.3573	15.3936	0.0000	0.0000	0	0.00
			<u>1,898</u>					<u>0.00</u>	<u>0.00</u>
<b>Total</b>			<b>1,898</b>					<b>0.00</b>	<b>0.00</b>
									<u>620 576.00</u>
									<u>6 667 908 161.60</u>
<b>Future</b>									
Dec 2018	ZAGB	Future	439,603	19.0592	19.2128	19.1550	19.1304	8,594	165,243,423.40
Mar 2019	ZAGB	Future	6,644	19.3892	19.5432	0.0000	0.0000	0	0.00
Jun 2019	ZAGB	Future	5,856	19.6962	19.8508	0.0000	0.0000	0	0.00
Sep 2019	ZAGB	Future	10,363	20.0307	20.1870	0.0000	0.0000	0	0.00
			<u>462,466</u>					<u>8,594.00</u>	<u>165,243,423.40</u>
<b>Option</b>									<u>12 823 618.00</u>
Dec 2018	ZAGB	19.30 Call	200	457.8532	527.8025	0.0000	0.0000	0	0.00
Dec 2018	ZAGB	21.00 Call	400	98.8812	119.8432	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	18.00 Put	500	319.9815	288.7084	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	20.00 Call	500	648.4786	714.6371	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	21.44 Call	500	309.2619	344.7655	0.0000	0.0000	0	0.00
			<u>2,100</u>					<u>0.00</u>	<u>0.00</u>
<b>Total</b>			<b>464,566</b>					<b>8,594.00</b>	<b>165,243,423.40</b>
									<u>14 599 831.00</u>
									<u>218 176 987 840.40</u>
<b>Future</b>									
Dec 2018	ZAJY	Future	6,905	0.1300	0.1305	0.0000	0.0000	0	0.00
			<u>6,905</u>					<u>0.00</u>	<u>0.00</u>
<b>Total</b>			<b>6,905</b>					<b>0.00</b>	<b>0.00</b>
									<u>1 021 902.00</u>
									<u>11 470 576 312.50</u>
<b>Future</b>									
Jun 2019	ZAKS	Future	2,166	0.1415	0.1422	0.0000	0.0000	0	0.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
			2,166					0.00	0.00	38 066.00	515 662 000.00
		<b>Total</b>	<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	38 066.00	515 662 000.00
<b>Future</b>											
	Dec 2018 ZATR	Future	12,000	2.4091	2.3666	0.0000	0.0000	0	0.00		
			12,000					0.00	0.00	383 239.00	1 228 466 169.00
		<b>Total</b>	<b>12,000</b>					<b>0.00</b>	<b>0.00</b>	383 239.00	1 228 466 169.00
<b>Future</b>											
	Dec 2018 ZAUM	Future	334	14.4685	14.5662	0.0000	0.0000	0	0.00		
	Mar 2019 ZAUM	Future	10	14.6446	14.7426	0.0000	0.0000	0	0.00		
			344					0.00	0.00	153 049.00	176 898 370 060.00
		<b>Total</b>	<b>344</b>					<b>0.00</b>	<b>0.00</b>	157 572.00	176 898 370 060.00
<b>Future</b>											
	Dec 2018 ZAUS	Future	865,294	14.4685	14.5662	14.6044	14.4614	30,568	445,107,376.60		
	Mar 2019 ZAUS	Future	53,287	14.6446	14.7426	14.7545	14.6450	3,071	45,101,514.00		
	Jun 2019 ZAUS	Future	18,950	14.8082	14.9071	0.0000	0.0000	0	0.00		
	Sep 2019 ZAUS	Future	20,642	14.9845	15.0843	0.0000	0.0000	0	0.00		
	Mar 2020 ZAUS	Future	3,966	15.3556	15.4591	0.0000	0.0000	0	0.00		
			962,139					33,639.00	490,208,890.60	187 820 452.00	2 249 890 987 368.40
<b>Option</b>											
	Dec 2018 ZAUS	11.64 Put	2,764	3.1170	3.3480	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	11.75 Put	228,616	3.6619	3.9075	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	11.90 Put	11,300	4.5658	4.7760	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.00 Put	174,530	5.2931	5.4646	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.02 Put	5,500	5.4523	5.6144	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.10 Put	8,580	6.1403	6.2575	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.20 Put	7,300	7.1281	7.1716	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.25 Put	3,300	7.6824	7.6803	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.38 Put	39,589	9.3422	9.1888	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.50 Call	228,616	1979.7061	2077.0606	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.50 Put	26,400	11.2061	10.8606	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.63 Put	39,589	13.6673	13.0409	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.68 Put	10,000	14.7587	13.9993	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.75 Put	1,000	16.4409	15.4690	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	12.95 Put	500	22.4445	20.6486	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	13.00 Call	6,000	1492.7764	1588.4142	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	13.00 Put	177,520	24.2764	22.2142	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	13.05 Put	1,500	26.2655	23.9073	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUS	13.10 Put	11,300	30.3460	25.7627	0.0000	0.0000	0	0.00		



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Dec 2018	ZAUS	13.20 Call	7,100	1308.4930	1400.4156	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	42.1795	36.1398	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1264.1311	1355.3820	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	45.6311	39.1820	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	54.5228	47.0490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	55.8926	48.2642	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1092.9326	1180.9829	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	74.4326	64.7829	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1051.8678	1138.9853	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	83.3678	72.7853	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	103.5396	90.9367	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	122.0168	107.6480	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	126.9750	112.1451	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	139.9807	123.9625	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	151.0230	134.0195	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	822.3782	902.8204	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	153.8782	136.6204	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	186.3184	165.8328	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	722.5228	798.0468	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	691.2279	765.0136	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	222.7279	198.8136	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	263.1396	235.6227	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	271.6990	243.4495	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	614.5394	683.6197	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	284.8395	255.4759	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	289.2990	259.5619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	576.0318	642.4914	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	307.5318	276.2914	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	326.3928	293.6384	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	549.7056	614.2705	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	355.8478	320.8035	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	509.5951	571.0992	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	371.0951	334.8992	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	499.9500	560.6850	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	381.4500	344.4850	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	402.6114	364.1092	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	476.4951	535.3079	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	458.3967	515.6728	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	432.3407	487.3208	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	463.8407	421.1208	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	469.7587	426.5218	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	393.0871	443.7453	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.60 Put	3,500	524.5871	477.5453	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	389.3496	439.6619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	385.6454	435.6129	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	367.6170	415.8799	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	569.1170	519.6799	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	357.1863	404.4392	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	615.2176	563.4414	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	340.4250	386.0222	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	621.9250	569.8222	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	324.4246	368.3972	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	655.9246	602.1972	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	312.1525	354.8529	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	309.1560	351.5415	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	726.0923	669.2250	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	267.4737	305.3181	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	798.9737	739.1181	0.0000	0.0000	10,000	0.00
Dec 2018	ZAUS	15.01 Call	10,000	264.9030	302.4569	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	245.2141	280.5028	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	242.8596	277.8724	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	231.4282	265.0884	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	952.0477	886.6942	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	991.6922	925.0681	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1031.6027	963.9868	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	186.7979	215.3705	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	171.0114	197.7414	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	167.6942	194.0300	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	164.4435	190.3906	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1195.9435	1124.1906	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	162.8436	188.5955	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	150.6053	174.8676	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	149.1455	173.2265	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	147.6989	171.5996	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	135.3303	157.6736	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	131.4555	153.3015	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1489.7236	1412.1398	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	117.0926	137.0593	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	110.5501	129.6374	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,050	101.1395	119.3067	0.0000	0.0000	5,000	0.00
Dec 2018	ZAUS	16.11 Call	38,250	90.4718	107.1502	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	87.7691	104.0607	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	82.6102	98.1568	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	79.3472	94.4150	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	16.50 Call	1,000	61.1731	73.4659	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	57.6396	69.3694	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	45.5354	55.2652	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	37.5323	45.8699	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	3.1047	3.1742	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	12.1765	12.0615	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	44.2914	41.3243	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	47.2075	44.0447	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	84.8559	79.2102	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	87.3006	81.4956	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	97.6502	91.1719	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	104.5981	97.6742	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	114.9806	107.3892	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	119.6715	111.7794	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	138.1491	127.4446	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	155.8381	142.2432	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	162.8557	148.7941	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	187.7972	172.1291	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	198.4533	182.1199	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	212.3288	195.1479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	226.8322	208.7825	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	251.3511	231.8802	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	257.7349	237.9014	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	264.2245	244.0258	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	274.1509	253.3983	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	287.7474	266.2531	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	312.5433	289.7227	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	327.2861	303.6971	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	368.6314	340.4347	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	385.9471	356.8298	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	459.5813	426.8365	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	498.9768	464.4129	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	853.6888	916.6744	0.0000	0.0000	1,000	0.00
Mar 2019	ZAUS	14.35 Put	139,342	534.8230	498.6735	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	582.7551	544.5782	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	588.2068	549.8074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	769.3109	828.2378	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	760.4333	818.9173	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	615.8333	576.3173	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	632.7058	592.5239	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	649.7962	608.9512	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	702.3492	659.5322	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Mar 2019	ZAUS	14.74 Put	24,326	757.0355	712.0138	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	800.8218	754.2043	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	807.1653	760.3206	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	813.5267	766.4628	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	819.9132	772.6231	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	582.7723	630.8471	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	572.7971	620.2280	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	951.9701	900.3324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	993.1325	940.2385	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1007.0034	953.6969	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1013.9686	960.4569	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	516.6096	560.2796	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1056.1373	1001.4040	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1063.2299	1008.2922	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1149.6885	1092.3883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	440.7923	478.9132	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	438.3424	476.2521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	428.6987	465.7793	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	423.9653	460.6908	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	419.2945	455.6680	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	392.4599	426.7951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	361.6530	393.5835	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	357.7645	389.3840	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	346.3834	377.0933	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	326.6065	355.7134	0.0000	0.0000	500	0.00
Mar 2019	ZAUS	16.13 Call	138,000	304.5495	332.2590	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	276.6196	303.6642	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	264.4630	290.4984	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	236.6063	260.2594	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	234.0058	257.4355	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	192.3627	212.0717	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	191.3335	210.9505	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	186.2846	205.4359	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	180.4287	199.0386	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	179.4733	197.9941	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	178.5262	196.9585	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	166.7079	184.0295	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	160.7286	177.4803	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	144.9937	160.2286	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	119.4796	130.2540	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	105.0166	114.3003	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.3094	9.2710	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Jun 2019	ZAUS	12.28 Put	1,000	42.2647	40.1102	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	101.3936	94.5521	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	145.0446	134.7446	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	149.3512	138.7162	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	207.7537	192.6558	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	394.0455	371.2074	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	6,250	413.1631	389.5443	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1281.2194	1354.9202	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1053.8848	1116.9301	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	982.2591	1042.5179	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	782.7380	743.2353	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	884.1746	940.4993	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	642.8888	687.2864	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	6,250	624.1496	667.2457	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	578.8526	619.1424	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	550.8438	589.3984	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	533.0811	570.5184	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	250.3918	266.9738	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	14.7086	15.8756	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	80.5015	70.0124	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	501.7329	478.1822	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	526.3167	501.8957	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	577.4870	551.3101	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	599.5949	572.6740	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	631.3101	603.3501	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	690.3402	657.9963	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	904.5911	865.7845	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1319.6147	1272.3341	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.55 Call	30,000	870.2687	920.3106	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1442.7172	1392.8151	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	778.9763	824.3205	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	498.3567	530.6156	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	438.9259	468.1139	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	412.1125	439.8720	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	402.4821	429.7194	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	369.5547	392.3753	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	355.6686	377.6575	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	33,715	344.1834	365.4779	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.67 Call	141,127	341.4288	362.5581	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	19.32 Call	33,151	302.5358	321.2685	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	46.5523	47.3738	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	462.7070	437.4747	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>	
Dec 2019	ZAUS	17.38 Call	1,000	654.2399	690.6081	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	380.6217	412.7337	0.0000	0.0000	0	0.00	
			<u>8,255,973</u>					<i>16,500.00</i>	<i>0.00</i>	<i>60 706 622.00</i>
		<b>Total</b>	<b>9,218,112</b>					<b>50,139.00</b>	<b>490,208,890.60</b>	<b>248 527 074.00</b>
										<i>0.00</i>
										<b>2 249 890 987 368.40</b>

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<b>Grand Total</b>	<b>10,952,055</b>							<b>91,950.00</b>	<b>792 678 817.90</b>	<b>339,060,830</b>	<b>3,120,406,900,574.92</b>
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