



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 14-September-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Oct 2018	CC01	Future	25,000	654.6479	668.9416	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>
		<b>Total</b>	<b>25,000</b>					<b>0.00</b>	<b>0.00</b>	<b>25 000.00</b>	<b>7 830 750.00</b>
<b>Future</b>											
Oct 2018	DAEU	Future	34	17.4608	17.3182	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>
<b>Option</b>											
Aug 2019	DAEU	16.03 Put	31,200	243.3888	267.8024	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	16.24 Put	30,200	284.9509	312.0826	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	31,200	491.3953	537.4233	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	998.6048	939.2938	0.0000	0.0000	0	0.00		
			<u>155,000</u>					<u>0.00</u>	<u>0.00</u>	<u>1 297 987.00</u>	<u>0.00</u>
		<b>Total</b>	<b>155,034</b>					<b>0.00</b>	<b>0.00</b>	<b>2 099 315.00</b>	<b>11 965 949 271.80</b>
<b>Future</b>											
Sep 2018	DAGB	Future	14	19.4939	19.3445	0.0000	0.0000	0	0.00		
Oct 2018	DAGB	Future	48	19.5559	19.4035	0.0000	0.0000	0	0.00		
			<u>62</u>					<u>0.00</u>	<u>0.00</u>	<u>53 831.00</u>	<u>883 358 081.80</u>
		<b>Total</b>	<b>62</b>					<b>0.00</b>	<b>0.00</b>	<b>261 144.00</b>	<b>883 358 081.80</b>
<b>Future</b>											
Sep 2018	DAUS	Future	0	14.8827	14.7530	0.0000	0.0000	20,000	297,654,000.00		
Sep 2018	DAUS	Future	300	14.8854	14.7551	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	Future	197	14.8920	14.7634	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	Future	2,633	14.8980	14.7694	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	55	14.9065	14.7774	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	3,600	14.9343	14.8032	0.0000	0.0000	1,000	14,838,800.00		
Oct 2018	DAUS	Future	235	14.9385	14.8072	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.9551	14.8234	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	Future	225	14.9633	14.8314	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	4,637	14.9675	14.8355	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	55	14.9695	14.8375	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.9942	14.8617	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.9983	14.8657	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	420	15.0004	14.8678	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	15.0272	14.8940	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	5,239	15.0292	14.8960	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	1,172	15.0540	14.9202	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	4,187	15.0922	14.9578	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	15.0962	14.9617	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	15.1520	15.0166	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,225	15.1540	15.0186	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	15.1799	15.0441	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	4,725	15.2098	15.0736	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,414	15.2636	15.1264	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	400	15.2675	15.1304	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	15.2755	15.1382	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	15.3311	15.1928	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	15.3927	15.2533	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	15.4549	15.3143	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	15.5179	15.3761	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	15.5829	15.4398	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.6466	15.5032	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.7113	15.5679	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.7826	15.6394	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.8517	15.7086	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.9164	15.7733	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.9855	15.8425	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	16.0547	15.9117	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	16.1149	15.9720	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	16.1907	16.0479	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	16.3155	16.1729	0.0000	0.0000	0	0.00		
			<u>121,574</u>					<u>21,000.00</u>	<u>312,492,800.00</u>	<u>10 634 722.00</u>	<u>129 999 955 750.30</u>

Option

Sep 2018	DAUS	15.00 Call	7,500	61.4354	56.3440	0.0000	0.0000	0	0.00
Sep 2018	DAUS	14.48 Put	40,000	53.7580	97.5925	0.0000	0.0000	0	0.00
Sep 2018	DAUS	15.40 Call	20,000	70.9901	61.4583	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.00 Put	500	0.9221	2.0109	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.78 Call	500	1123.7962	1000.0491	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Put	1,000	5.9975	11.0474	0.0000	0.0000	0	0.00
Sep 2018	DAUS	14.25 Put	250	20.5981	48.9166	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 2018	DAUS	14.54 Call	250	432.7878	358.5778	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.25 Call	500	11.1616	8.7383	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.80 Call	500	3.6699	3.2064	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	7.7581	11.0019	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	1004.6805	896.7078	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	8.2738	10.5470	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	43.0510	62.0275	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	1098.8093	991.0521	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	129.4307	168.7768	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	576.7747	504.5663	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	350.1105	0.0000	0.0000	0.0000	114	0.00
Oct 2018	DAUS	15.01 Call	114	411.3564	0.0000	0.0000	0.0000	114	0.00
Oct 2018	DAUS	16.47 Call	500	97.1980	81.9322	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	54.1635	45.9765	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.85 Put	1,100	373.9772	441.6031	0.0000	0.0000	0	0.00
Nov 2018	DAUS	15.50 Call	1,100	264.8516	228.0219	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	3.1866	4.4117	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	61.3749	83.0125	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	80.7659	68.1198	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.8344	1.1591	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	3.4636	4.6919	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1806.2011	1677.6341	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.00 Put	10,000	109.7958	139.0497	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	635.1468	561.9545	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	624.6957	552.2208	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	550.7195	484.4056	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	440.3195	506.6056	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	587.0876	517.4200	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	722.4496	644.8285	0.0000	0.0000	0	0.00
Nov 2018	DAUS	15.31 Call	10,000	420.0727	368.4857	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	28.6203	33.8013	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	95.6350	119.1953	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	1104.8360	1004.2186	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	202.7024	243.5867	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	651.1751	579.2846	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	166.5687	142.3345	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	108.2350	91.7821	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	839.3540	921.1961	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	124.6741	151.6152	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	230.9365	274.6818	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	498.8728	561.4464	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	740.1649	817.4309	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	13.65 Put	20,000	85.7479	105.9750	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	124.0462	149.9937	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	584.1223	519.6757	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	385.9120	338.5787	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	145.9835	174.0304	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	257.7359	301.0303	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	529.1561	591.5529	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	768.4486	843.9897	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	52.5165	62.0745	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	59.7366	70.3016	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	822.3531	743.2401	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	775.9290	699.6407	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	45.2174	53.4169	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	137.0455	163.0255	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	1120.3837	1024.7988	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	257.8652	298.4429	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	579.5616	644.3614	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	220.5459	194.0247	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	152.6750	133.7772	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	33.9076	41.0744	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	61.2449	72.0984	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	305.5638	346.7320	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	1126.2987	1039.9347	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	752.4954	688.7249	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	72.4088	86.3447	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	343.5497	386.0388	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	1139.5554	1058.5831	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	791.3543	730.8671	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	81.4160	98.3901	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	378.3367	422.3163	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	1152.8683	1075.1342	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	822.8730	764.8764	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	85.9364	108.0005	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	2020.8864	1912.8723	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	410.9957	454.9284	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	1164.1724	1090.4849	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	851.7607	795.7005	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	94.3418	115.5495	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	440.2607	485.3413	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	1176.4091	1106.5852	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	877.8000	823.7624	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	657.2537	719.1532	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	17.22 Call	20,000	574.1118	540.3130	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	13.00 Put	500	97.3278	120.8690	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	14.25 Put	250	465.0503	510.5511	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.17 Call	500	1186.9529	1119.7138	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.96 Call	250	898.8358	846.0230	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.45 Put	39,250	199.3704	235.1296	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.44 Call	39,250	775.4288	730.8039	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	110.1337	124.9507	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	490.6939	537.4886	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	1208.5687	1143.7408	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	928.8466	876.9239	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,950	592.7811	645.2808	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,950	900.2344	851.4148	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	124.9252	136.7695	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	511.8585	560.2250	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	1218.8184	1155.1071	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	947.9886	897.8352	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	475.4784	459.0474	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	135.5721	152.1340	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	532.3389	582.0146	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	1243.9680	1182.3045	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	978.9098	931.1291	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	151.5806	169.2376	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	552.9725	603.3645	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	1265.0332	1206.6679	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	1008.4630	963.2499	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	170.1176	184.0746	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	570.6105	621.1128	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	1290.4595	1234.7098	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	1039.4803	996.2010	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	189.3249	200.8112	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	595.6162	639.2232	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	1301.2754	1263.2164	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	1061.0106	1032.3279	0.0000	0.0000	0	0.00		
			<u>837,891</u>					<u>228.00</u>	<u>0.00</u>	<u>20 653 898.00</u>	<u>0.00</u>
<b>Total</b>			<b>959,465</b>					<b>21,228.00</b>	<b>312,492,800.00</b>	<b>31 288 620.00</b>	<b>129 999 955 750.30</b>
<b>Future</b>											
Sep 2018	EUUS	Future	40	1.1669	1.1676	0.0000	0.0000	0	0.00		
			<u>40</u>					<u>0.00</u>	<u>0.00</u>	<u>744 055.00</u>	<u>8 440 571 735.00</u>
<b>Total</b>			<b>40</b>					<b>0.00</b>	<b>0.00</b>	<b>744 055.00</b>	<b>8 440 571 735.00</b>

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<b>Future</b>										
Sep 2018	GBUS	Future	500	1.3080	1.3093	0.0000	0.0000	0	0.00	
			<u>500</u>					<u>0.00</u>	<u>0.00</u>	<u>167 866.00</u>
		<b>Total</b>	<b>500</b>					<b>0.00</b>	<b>0.00</b>	<b>167 866.00</b>
<b>Future</b>										
Sep 2018	ZAAD	Future	2,428	10.6879	10.6000	0.0000	0.0000	12,081	128,947,275.00	
Dec 2018	ZAAD	Future	23,658	10.8178	10.7276	10.8204	10.5910	13,146	141,992,623.10	
Mar 2019	ZAAD	Future	520	10.9646	10.8715	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	4,929	11.1071	11.0112	0.0000	0.0000	0	0.00	
			<u>31,535</u>					<u>25,227.00</u>	<u>270,939,898.10</u>	<u>3 722 338.00</u>
		<b>Total</b>	<b>31,535</b>					<b>25,227.00</b>	<b>270,939,898.10</b>	<b>3 754 715.00</b>
<b>Future</b>										
Dec 2018	ZACA	Future	600	11.5689	11.4865	0.0000	0.0000	0	0.00	
			<u>600</u>					<u>0.00</u>	<u>0.00</u>	<u>137 653.00</u>
		<b>Total</b>	<b>600</b>					<b>0.00</b>	<b>0.00</b>	<b>137 653.00</b>
<b>Future</b>										
Sep 2018	ZADK	Future	245	2.3403	2.3220	0.0000	0.0000	0	0.00	
Dec 2018	ZADK	Future	240	2.3877	2.3687	0.0000	0.0000	0	0.00	
			<u>485</u>					<u>0.00</u>	<u>0.00</u>	<u>12 090.00</u>
		<b>Total</b>	<b>485</b>					<b>0.00</b>	<b>0.00</b>	<b>12 090.00</b>
<b>Future</b>										
Sep 2018	ZAEU	Future	44,144	17.3652	17.2259	17.3600	17.2167	8,406	145,977,178.60	
Dec 2018	ZAEU	Future	89,107	17.6878	17.5409	17.7497	17.5862	11,824	209,190,306.50	
Mar 2019	ZAEU	Future	5,496	18.0611	17.9093	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	Future	5,256	18.4137	18.2565	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	Future	6,161	18.8062	18.6422	0.0000	0.0000	0	0.00	
			<u>150,164</u>					<u>20,230.00</u>	<u>355,167,485.10</u>	<u>15 393 481.00</u>
										<u>220 715 148 174.30</u>
<b>Option</b>										
Sep 2018	ZAEU	13.50 Put	29,734	0.0000	0.0000	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	14.25 Put	57,090	0.0000	0.0000	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	15.85 Put	86,824	0.0673	0.5306	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	16.76 Call	29,734	607.8419	490.0703	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	19.56 Call	86,824	0.2304	0.2528	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	15.60 Put	462	101.3117	118.5234	0.0000	0.0000	461,823	0.00	
Mar 2019	ZAEU	16.00 Call	650	2216.8311	2085.4416	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	17.33 Put	462	556.5407	618.8078	0.0000	0.0000	461,823	0.00	
Mar 2019	ZAEU	19.65 Call	462	503.9924	466.3446	0.0000	0.0000	461,823	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
			292,242					1,385,469.00	0.00	10 794 564.00	0.00
	<b>Total</b>		<b>442,406</b>					<b>1,405,699.00</b>	<b>355,167,485.10</b>	26 188 045.00	220 715 148 174.30
<b>Future</b>											
	Sep 2018 ZAFR	Future	882	15.4062	15.2459	0.0000	0.0000	0	0.00		
	Dec 2018 ZAFR	Future	1,648	15.7068	15.5388	0.0000	0.0000	0	0.00		
	Jun 2019 ZAFR	Future	150	16.3865	16.2067	0.0000	0.0000	0	0.00		
			2,680					0.00	0.00	619 594.00	6 652 747 744.40
	<b>Total</b>		<b>2,680</b>					<b>0.00</b>	<b>0.00</b>	619 594.00	6 652 747 744.40
<b>Future</b>											
	Sep 2018 ZAGB	Future	27,153	19.4658	19.3165	19.2756	19.2756	3,162	61,501,272.40		
	Dec 2018 ZAGB	Future	489,418	19.7699	19.6136	19.7900	19.6202	3,164	62,575,493.80		
	Mar 2019 ZAGB	Future	4,932	20.1170	19.9568	0.0000	0.0000	0	0.00		
	Jun 2019 ZAGB	Future	5,856	20.4408	20.2750	0.0000	0.0000	0	0.00		
	Sep 2019 ZAGB	Future	10,026	20.7970	20.6249	0.0000	0.0000	0	0.00		
			537,385					6,326.00	124,076,766.20	12 709 699.00	215 974 916 705.70
<b>Option</b>											
	Mar 2019 ZAGB	18.00 Put	500	248.7906	287.3467	0.0000	0.0000	0	0.00		
	Mar 2019 ZAGB	21.44 Call	500	621.2935	580.2726	0.0000	0.0000	0	0.00		
			1,000					0.00	0.00	1 775 113.00	0.00
	<b>Total</b>		<b>538,385</b>					<b>6,326.00</b>	<b>124,076,766.20</b>	14 484 812.00	215 974 916 705.70
<b>Future</b>											
	Sep 2018 ZAJY	Future	115	0.1328	0.1319	0.0000	0.0000	0	0.00		
	Dec 2018 ZAJY	Future	6,905	0.1352	0.1343	0.0000	0.0000	0	0.00		
			7,020					0.00	0.00	1 014 882.00	11 375 646 502.50
	<b>Total</b>		<b>7,020</b>					<b>0.00</b>	<b>0.00</b>	1 014 882.00	11 375 646 502.50
<b>Future</b>											
	Jun 2019 ZAKS	Future	2,166	0.1464	0.1452	0.0000	0.0000	0	0.00		
			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>											
	Sep 2018 ZATR	Future	5,270	2.4158	2.3873	0.0000	0.0000	6,000	13,431,000.00		
	Dec 2018 ZATR	Future	12,000	2.3229	2.2947	0.0000	0.0000	6,000	13,431,000.00		
			17,270					12,000.00	26,862,000.00	377 969.00	1 215 989 971.00
	<b>Total</b>		<b>17,270</b>					<b>12,000.00</b>	<b>26,862,000.00</b>	377 969.00	1 215 989 971.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Sep 2018	ZAUM	Future	172	14.8820	14.7530	0.0000	0.0000	0	0.00
Dec 2018	ZAUM	Future	321	15.0581	14.9242	0.0000	0.0000	36	53,884,250.00
Mar 2019	ZAUM	Future	10	15.2457	15.1089	0.0000	0.0000	0	0.00
			503					36.00	53,884,250.00
									152 973.00
									176 787 920 960.00
		<b>Total</b>	<b>503</b>					<b>36.00</b>	<b>53,884,250.00</b>
									157 496.00
									176 787 920 960.00

**Future**

Sep 2018	ZAUS	Future	289,963	14.8820	14.7530	14.9300	14.6889	97,736	1,448,478,190.90
Dec 2018	ZAUS	Future	628,854	15.0581	14.9242	15.1200	14.8700	107,170	1,608,789,090.90
Mar 2019	ZAUS	Future	30,855	15.2457	15.1089	15.2715	15.2715	1,501	22,744,771.50
Jun 2019	ZAUS	Future	19,910	15.4206	15.2806	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	Future	17,436	15.6113	15.4677	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	Future	3,966	16.0167	15.8738	0.0000	0.0000	0	0.00
Jun 2020	ZAUS	Future	0	16.2130	16.0702	0.0000	0.0000	6,634	99,259,898.20
			990,984					213,041.00	3,179,271,951.50
									185 488 333.00
									2 215 406 462 417.50

**Option**

Sep 2018	ZAUS	11.48 Put	5,200	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.50 Put	45,000	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.60 Put	2,000	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.75 Put	93,314	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.85 Put	48,200	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.90 Put	3,000	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.00 Put	13,300	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.25 Call	500	2632.0000	2503.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.25 Put	40,000	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.30 Put	100	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.38 Put	60,000	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.50 Call	3,600	2382.0000	2253.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.50 Put	44,000	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.58 Put	8,000	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.61 Put	13,231	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.65 Put	1,550	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.77 Call	5,200	2112.0000	1983.0001	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.80 Call	50	2082.0000	1953.0002	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.80 Put	500	0.0000	0.0002	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.85 Put	750	0.0000	0.0005	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Call	7,500	1882.0000	1753.0041	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Put	70,000	0.0000	0.0041	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.10 Put	2,500	0.0000	0.0150	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Call	4,000	1682.0000	1553.0480	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Put	4,500	0.0000	0.0480	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.22 Put	10,000	0.0000	0.0598	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 2018	ZAUS	13.25 Call	1,250	1632.0000	1503.0824	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Put	74,064	0.0000	0.0824	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.30 Call	500	1582.0000	1453.1375	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.50 Call	500	1382.0000	1253.4516	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Call	26,000	1282.0000	1153.8020	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Put	4,000	0.0000	0.8020	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.65 Call	1,464	1232.0000	1104.0629	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Call	60,000	882.0169	759.7956	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Put	22,000	0.0169	6.7956	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.20 Call	500	682.2593	566.9850	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.50 Call	500	385.5918	296.6486	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.70 Call	63,000	200.8631	146.9087	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.00 Call	4,000	34.1599	46.6157	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.00 Put	50	152.1599	293.6157	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.97 Call	5,300	0.7552	2.3160	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.04 Call	1,550	0.5970	1.9404	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.14 Call	750	0.4341	1.5235	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.29 Call	73,314	0.2790	1.0468	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.64 Put	2,764	6.8703	8.3287	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	7.6015	9.2504	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	8.7318	10.6810	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	9.5823	12.1583	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	9.7625	12.4770	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	10.7729	13.8345	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	12.4002	15.7326	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	13.2985	16.7736	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	15.9321	19.8012	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	2576.8954	2447.2594	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	18.7954	23.0594	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	22.4432	27.1741	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	24.0174	28.9386	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	26.3969	31.5962	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	34.4813	40.5547	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	2094.9403	1967.3518	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	36.8403	43.1518	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	39.3497	45.9092	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	42.0203	48.8362	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1905.9779	1779.4393	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	49.1385	56.6124	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1859.1873	1732.9356	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	51.0873	58.7356	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	55.9190	63.9920	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.33 Put	135,000	56.6428	64.7788	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1674.1448	1551.7650	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	66.0448	77.5650	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1628.4751	1509.2617	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	70.3751	85.0617	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	82.3518	101.6523	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	95.2238	116.5427	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	98.6609	120.4985	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	107.6450	130.8100	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	1391.4122	1281.4914	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	115.2487	139.5023	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	1375.3089	1265.9363	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	400	117.2089	141.7363	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	138.1364	165.4966	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	1257.6334	1152.5566	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	1219.6694	1116.0877	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	68,250	161.5694	191.8877	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	187.6218	221.0082	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	193.1537	227.1690	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	1124.0617	1024.4893	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	201.6576	236.6198	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	204.5481	240.0532	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	1,000	1074.4845	978.3466	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	216.3845	254.1466	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	228.6677	268.7344	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	1,000	1039.9069	946.6607	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	247.9378	291.5456	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	986.9153	897.5689	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	258.8153	303.3689	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	974.3316	885.6065	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	266.2316	311.4065	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	281.4392	327.8492	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	919.2537	833.2970	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	700	883.9347	799.8034	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	325.8347	375.6034	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	827.5433	746.4045	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,000	369.4433	422.2045	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	822.0724	741.2317	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	816.6320	736.0858	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	789.8871	710.8034	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	401.7871	456.6034	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	20,000	774.1998	695.9881	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	14.74 Put	13,150	435.6012	492.4441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	748.6507	671.8789	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	440.5507	497.6789	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	723.8420	648.4885	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	465.7420	524.2885	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	704.5171	630.2848	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	518.2935	579.6173	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	10,000	631.7657	563.5805	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	20,700	573.6657	639.3805	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	627.4540	559.7026	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	594.3745	529.6176	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	590.4165	525.9708	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	571.0062	508.1121	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	694.1371	766.6624	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	725.9905	800.0053	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	758.4505	833.9244	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	492.9790	436.5496	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	464.3055	410.3496	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	458.1737	404.7530	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	4,000	452.1271	399.2367	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	894.0271	975.0367	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	449.1370	396.5112	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	425.9469	375.3860	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	420.3511	370.2963	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	396.1319	348.4069	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	388.3988	341.4613	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1143.3257	1233.0642	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	359.0756	315.1608	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	345.3415	302.8661	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	50	325.8246	285.4199	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	303.6355	265.6298	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	297.8826	260.5080	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	286.7512	250.6022	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	279.5956	244.2406	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	229.1691	198.1969	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	196.2656	169.1672	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	172.8702	148.6137	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	3.7800	4.9997	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	13.7412	15.8266	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	30.9562	39.9881	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	33.3944	42.8757	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	65.9158	80.3977	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	12.92 Put	139,342	68.0706	82.8362	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	77.2231	93.1533	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	83.3948	100.0698	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	92.6448	110.3877	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	130.1405	151.7368	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	148.6039	171.8806	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	195.5973	223.5966	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	200.3237	228.9150	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	212.4801	242.5742	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	222.7901	253.8808	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	241.6208	274.4856	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	252.8390	286.7293	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	282.3575	318.8497	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	294.7551	332.3063	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	376.3953	420.4149	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	1,000	1329.4609	1237.2287	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	402.5637	448.5154	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	437.7762	489.2680	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	1219.6892	1136.8867	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,000	462.2418	517.4849	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	475.7824	531.9067	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	489.5364	546.5301	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	14,200	576.3816	638.5303	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	617.3134	681.6907	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10	622.5301	687.1838	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	627.7644	692.6939	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	977.9789	909.3674	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	736.9718	807.2781	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	782.9678	855.3094	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	788.8096	861.3850	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	888.0653	824.7857	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	824.2648	898.2489	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	830.2394	904.4562	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	903.3296	980.3974	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	781.1082	724.4359	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	777.5493	721.1073	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	749.6855	695.0524	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	709.9133	657.8999	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	663.4500	614.5510	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	640.0709	592.9374	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	20,000	609.4399	564.8875	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	575.8327	533.7510	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	16.38 Call	134,750	517.2261	479.5248	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	471.5758	437.3370	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	405.1305	374.0528	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	403.3806	372.4547	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	394.7662	364.5924	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	384.7111	355.4215	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	383.0640	353.9184	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	381.4288	352.4231	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	360.8675	333.6828	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	322.2414	298.5070	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	263.1630	244.7903	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	227.8305	217.5791	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	13.2323	16.2919	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	22.5034	27.0608	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	62.1417	75.1624	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	94.8908	112.8351	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	144.1758	168.5419	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	309.6976	346.6483	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	6,250	325.8628	362.9937	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1798.2003	1697.6823	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1519.9484	1430.0181	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	1427.6877	1342.7738	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	1304.4806	1228.4711	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	999.5144	939.8496	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	6,250	974.2514	916.0272	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	912.5318	857.8876	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	873.8784	821.5164	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	849.1630	798.2772	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	16.1462	20.0605	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	54.9499	56.1086	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	416.1756	463.7628	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	507.4933	555.5294	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	554.6118	605.0168	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	724.1941	782.9073	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1085.7442	1163.6042	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.55 Call	30,000	1251.5070	1187.9908	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1196.4750	1276.6150	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	1135.0292	1076.6771	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	766.2377	728.0556	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	684.9894	651.9656	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	647.8274	617.1941	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	634.3955	604.6358	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>	
Sep 2019	ZAUS	18.47 Call	1,200	553.1757	528.7334	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	19.32 Call	33,151	468.2668	454.4488	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	11.89 Put	1,000	56.6983	58.5310	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	13.66 Put	1,000	354.5364	388.6101	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38 Call	1,000	952.1606	914.5138	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	588.0222	578.9404	0.0000	0.0000	0	0.00	
			<u>6,977,209</u>					<u>0.00</u>	<u>0.00</u>	<u>58 396 095.00</u>
	<b>Total</b>		<b><u>7,968,193</u></b>					<b><u>213,041.00</u></b>	<b><u>3,179,271,951.50</u></b>	<b><u>243 884 428.00</u></b>
										<u>2 215 406 462 417.50</u>

<b>Grand Total</b>			<b><u>10,151,344</u></b>					<b><u>1,683,557.00</u></b>	<b><u>4 322 695 150.90</u></b>	<b><u>333,933,028</u></b>	<b><u>3,078,844,058,638.32</u></b>
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