



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 27-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Mar 2019	CAHF	Future	10,000	131.3900	128.1100	0.0000	0.0000	0	0.00		
			<u>10,000</u>					<u>0.00</u>	<u>0.00</u>	<u>10 000.00</u>	<u>2 531 700.00</u>
		Total	10,000					0.00	0.00	10 000.00	2 531 700.00
Future											
Nov 2018	DAEU	Future	37	15.7120	15.7293	0.0000	0.0000	34	531,692.00		
			<u>37</u>					<u>34.00</u>	<u>531,692.00</u>	<u>801 433.00</u>	<u>11 967 688 052.40</u>
Option											
Dec 2018	DAEU	15.83 Put	32,000	275.8531	280.9980	0.0000	0.0000	0	0.00		
Jan 2019	DAEU	15.85 Put	13,000	319.3353	322.3600	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	31,200	1198.5700	1192.4089	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	274.1887	284.3619	0.0000	0.0000	0	0.00		
			<u>138,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 480 587.00</u>	<u>0.00</u>
		Total	138,637					34.00	531,692.00	2 282 020.00	11 967 688 052.40
Future											
Nov 2018	DAGB	Future	13	17.7090	17.7941	0.0000	0.0000	9	158,515.20		
Jan 2019	DAGB	Future	27	17.9000	17.9874	0.0000	0.0000	4	71,912.00		
Mar 2019	DAGB	Future	24	18.0744	18.1619	0.0000	0.0000	0	0.00		
			<u>64</u>					<u>13.00</u>	<u>230,427.20</u>	<u>54 014.00</u>	<u>890 164 723.80</u>
		Total	64					13.00	230,427.20	261 327.00	890 164 723.80
Future											
Nov 2018	DAUS	Future	202	13.9001	13.8517	0.0000	0.0000	166	2,306,005.60		
Nov 2018	DAUS	Future	461	13.9001	13.8516	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	1,535	13.9001	13.8533	0.0000	0.0000	247	3,426,137.00		
Dec 2018	DAUS	Future	166	13.9051	13.9000	0.0000	0.0000	166	2,307,400.00		
Dec 2018	DAUS	Future	500	13.9117	13.8649	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	13.9201	13.8732	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	1,760	13.9518	13.9050	0.0000	0.0000	780	10,868,600.00		

<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>		
Jan 2019	DAUS	Future	55	13.9551	13.9083	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	150	13.9768	13.9302	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	20	13.9785	13.9319	0.0000	0.0000	12	167,214.00		
Jan 2019	DAUS	Future	51	13.9935	13.9470	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.0019	13.9554	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,776	14.0036	13.9571	0.0000	0.0000	380	5,321,520.00		
Feb 2019	DAUS	Future	70	14.0261	13.9794	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.0296	13.9828	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.0469	14.0000	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,461	14.0521	14.0051	0.0000	0.0000	380	5,339,760.00		
Mar 2019	DAUS	Future	80	14.0606	14.0136	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.0981	14.0508	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,673	14.1015	14.0542	0.0000	0.0000	1,680	23,651,060.00		
Apr 2019	DAUS	Future	55	14.1083	14.0610	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.1560	14.1084	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.2089	14.1610	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.2625	14.2144	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.3161	14.2679	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.3716	14.3232	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.4242	14.3757	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.4750	14.4265	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.5315	14.4829	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.5909	14.5409	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.6465	14.5952	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.7059	14.6533	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.7653	14.7113	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.8170	14.7619	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.8822	14.8256	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.9895	14.9304	0.0000	0.0000	0	0.00		
			<u>111,489</u>					<u>3,811.00</u>	<u>53,387,696.60</u>	<u>10 906 819.00</u>	<u>133 882 629 430.50</u>
Option											
Nov 2018	DAUS	14.76 Call	4,000	0.0541	0.2990	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.00 Put	500	0.3430	1.2999	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.80 Put	1,000	50.6113	81.2381	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.85 Put	600	66.9183	101.2677	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.08 Call	500	33.8566	36.8649	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	421	363.2169	413.0812	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.30 Call	600	10.1389	12.9002	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.80 Call	600	0.7242	1.5207	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.82 Call	250	0.6520	1.4149	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	0.0151	0.0237	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	0.1094	0.1467	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	DAUS	15.45 Put	23,000	1542.1675	1589.2309	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	65,000	81.0526	105.9340	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	138.0435	175.3577	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	422.2106	471.9439	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	993.2767	1041.3076	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1391.2661	1438.2986	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.50 Put	25,000	31.9417	43.4951	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	125	87.6783	112.6554	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	92.0186	88.9352	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	18.4926	20.8009	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	71.3537	93.7818	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	149.8766	182.0355	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	5.7404	6.3971	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	1.2427	1.5009	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	217.9006	253.6829	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	261.4150	300.9604	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	479.6019	525.5945	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	996.3720	1045.2613	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1377.8224	1426.4513	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	25.5314	33.6748	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	35.6623	49.1236	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	56.5729	58.0896	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	46.2928	48.1507	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	23.9757	30.1193	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	208.6691	240.1196	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	184.2440	180.4891	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	473.5964	517.1117	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	1060.2685	1108.5409	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	1.5218	1.8013	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	1.4916	1.6989	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	130.4678	154.2448	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	308.0273	296.8667	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	161.7142	159.0669	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	163.7795	189.8954	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	247.5141	240.2427	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	112.4330	111.7747	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	12.4823	15.9876	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	56.1881	67.0867	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	513.9635	551.9729	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	546.8085	585.5412	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	259.7827	253.6966	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	111.1125	110.3560	0.0000	0.0000	0	0.00

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Jan 2019	DAUS	15.47 Call	250	75.5613	75.4451	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	91.9822	104.9782	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	568.0440	604.9053	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	599.7957	637.3126	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	315.8078	309.3501	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	162.7172	161.0948	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	118.5971	117.7798	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	500.5734	532.4327	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	127.5262	141.5683	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	620.2001	655.3600	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	651.1846	686.9586	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	367.6887	360.4444	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	211.9785	209.5187	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	162.8411	161.1371	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	162.4779	177.3571	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	978.4519	954.0824	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	665.2077	699.0720	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	695.5211	729.9805	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	411.4162	404.1644	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	256.1046	252.4254	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	205.1051	202.7377	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	194.4642	209.8663	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	703.8946	736.9740	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	733.7084	767.3436	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	448.8883	441.6621	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	292.9126	289.1755	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	239.7693	237.2711	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1058.9390	1096.7406	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	167.5523	167.8357	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	220.2547	236.4619	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	735.6228	768.2946	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	765.0754	798.3145	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	480.0385	473.1233	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	324.7080	320.5584	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	271.5103	268.6976	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	371.4020	393.2888	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	265.1088	262.6706	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	248.3236	265.2915	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	768.0095	799.9980	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	797.2780	829.8157	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	517.0986	510.2922	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	361.4028	357.8441	0.0000	0.0000	0	0.00

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Jul 2019	DAUS	16.50 Call	250	308.2050	305.4928	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,147	948.1413	983.4347	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,147	353.1688	350.0663	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	272.9194	290.1402	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.20 Put	250	794.0206	827.2931	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	823.1600	856.9003	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	542.8797	536.7867	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	388.7262	385.3029	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	334.8106	332.7475	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	167.1957	167.3569	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	295.5900	313.2416	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	818.1238	850.6131	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	847.0748	880.0392	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	572.7907	566.9506	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	418.6086	415.5465	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	362.7489	360.7952	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	317.9728	335.8903	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	840.7635	872.3286	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	869.5601	901.5733	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	595.9458	590.3351	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	443.9802	440.6160	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	389.3913	386.7278	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	330.4815	351.5430	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	859.6729	891.5698	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	888.2754	920.6385	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	619.9002	614.1362	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	469.2230	466.1219	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	415.2652	413.0455	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	347.5801	369.0015	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	881.3373	913.6797	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	909.8162	942.6113	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	650.6565	644.4632	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	503.4803	499.9537	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	450.0792	447.4626	0.0000	0.0000	0	0.00		
			<u>704,953</u>					<u>0.00</u>	<u>0.00</u>	<u>21 944 683.00</u>	<u>0.00</u>
		Total	816,442					3,811.00	53,387,696.60	32 851 502.00	133 882 629 430.50
Future											
	Dec 2018	EUUS	Future	50	1.1316	1.1366	0.0000	0.0000	0	0.00	
				<u>50</u>				<u>0.00</u>	<u>0.00</u>	<u>744 705.00</u>	<u>8 448 109 050.00</u>
		Total	50					0.00	0.00	744 705.00	8 448 109 050.00

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Future											
Dec 2018	GBUS	Future	250	1.2748	1.2852	1.2757	1.2757	5	63,785.00		
			250					5.00	63,785.00	170 239.00	2 190 649 727.00
		Total	250					5.00	63,785.00	170 239.00	2 190 649 727.00
Future											
Dec 2018	ZAAD	Future	19,696	10.0562	10.0574	0.0000	0.0000	8,342	84,012,282.00		
Mar 2019	ZAAD	Future	324	10.1883	10.1894	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,934	10.3148	10.3157	0.0000	0.0000	0	0.00		
			24,954					8,342.00	84,012,282.00	3 774 293.00	32 946 771 770.10
		Total	24,954					8,342.00	84,012,282.00	3 806 670.00	32 946 771 770.10
Future											
Dec 2018	ZACA	Future	700	10.4909	10.5077	0.0000	0.0000	0	0.00		
Mar 2019	ZACA	Future	250	10.6327	10.6498	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	10.7780	10.7943	0.0000	0.0000	0	0.00		
			1,200					0.00	0.00	140 963.00	1 391 359 940.10
		Total	1,200					0.00	0.00	140 963.00	1 391 359 940.10
Future											
Dec 2018	ZADK	Future	140	2.1178	2.1203	0.0000	0.0000	0	0.00		
			140					0.00	0.00	12 435.00	267 991 609.00
		Total	140					0.00	0.00	12 435.00	267 991 609.00
Future											
Dec 2018	ZAEU	Future	115,939	15.7550	15.7725	15.7701	15.7663	5,002	78,746,536.40		
Mar 2019	ZAEU	Future	37,049	16.0734	16.0933	0.0000	0.0000	0	0.00		
Jun 2019	ZAEU	Future	4,675	16.3731	16.3940	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	9,050	16.7043	16.7263	0.0000	0.0000	0	0.00		
			166,713					5,002.00	78,746,536.40	15 706 564.00	226 080 525 543.60
Option											
Mar 2019	ZAEU	15.60 Put	462	324.4393	324.5950	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	588.3639	608.5138	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	1469.9328	1462.8371	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	35.0735	39.1979	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	488.1427	500.4319	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	103.2751	100.8530	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	705.4679	698.9982	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	419.0626	425.5901	0.0000	0.0000	0	0.00		
			108,486					0.00	0.00	10 956 414.00	0.00
		Total	275,199					5,002.00	78,746,536.40	26 662 978.00	226 080 525 543.60

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Dec 2018	ZAFR	Future	1,266	13.9475	13.9129	13.8823	13.8823	100	1,388,230.00		
Jun 2019	ZAFR	Future	150	14.5252	14.4916	0.0000	0.0000	0	0.00		
			<u>1,416</u>					<u>100.00</u>	<u>1,388,230.00</u>	<u>621 258.00</u>	<u>6 677 568 092.80</u>
		Total	1,416					100.00	1,388,230.00	621 258.00	6 677 568 092.80
Future											
Dec 2018	ZAGB	Future	417,643	17.7492	17.8345	17.7500	17.7500	259	4,600,588.80		
Mar 2019	ZAGB	Future	12,350	18.0409	18.1282	18.0560	17.9676	742	13,378,678.00		
Jun 2019	ZAGB	Future	5,301	18.3146	18.4029	18.3059	18.2894	555	10,152,115.50		
Sep 2019	ZAGB	Future	10,960	18.6144	18.7038	18.5938	18.4992	1,065	19,734,732.00		
Dec 2019	ZAGB	Future	0	18.9017	18.9920	18.8701	18.8701	500	9,435,050.00		
Mar 2020	ZAGB	Future	0	19.2286	19.3159	19.1614	19.1614	500	9,580,700.00		
			<u>446,254</u>					<u>3,621.00</u>	<u>66,881,864.30</u>	<u>12 939 246.00</u>	<u>220 323 588 485.00</u>
		Total						3,621.00	66,881,864.30	12 939 246.00	220 323 588 485.00
Option											
Dec 2018	ZAGB	19.30 Call	200	12.0203	16.1583	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	640.5053	605.3083	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1435.1623	1374.7435	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	154.8402	171.7453	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	134.4583	149.5958	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	49.8642	56.6538	0.0000	0.0000	0	0.00		
			<u>4,200</u>					<u>0.00</u>	<u>0.00</u>	<u>1 779 113.00</u>	<u>0.00</u>
		Total	450,454					3,621.00	66,881,864.30	14 718 359.00	220 323 588 485.00
Future											
Dec 2018	ZAJY	Future	6,905	0.1226	0.1225	0.0000	0.0000	0	0.00		
			<u>6,905</u>					<u>0.00</u>	<u>0.00</u>	<u>1 021 902.00</u>	<u>11 470 576 312.50</u>
		Total	6,905					0.00	0.00	1 021 902.00	11 470 576 312.50
Future											
Jun 2019	ZAKS	Future	2,166	0.1331	0.1342	0.0000	0.0000	0	0.00		
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>	<u>515 662 000.00</u>
		Total	2,166					0.00	0.00	38 066.00	515 662 000.00
Future											
Dec 2018	ZAUM	Future	429	13.9234	13.8766	0.0000	0.0000	0	0.00		
Mar 2019	ZAUM	Future	10	14.0828	14.0356	0.0000	0.0000	0	0.00		
			<u>439</u>					<u>0.00</u>	<u>0.00</u>	<u>153 956.00</u>	<u>178 213 697 080.00</u>
		Total	439					0.00	0.00	158 479.00	178 213 697 080.00

<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	Future	777,011	13.9234	13.8766	13.9367	13.8335	58,116	808,234,563.70
Mar 2019	ZAUS	Future	64,431	14.0828	14.0356	14.0788	14.0200	252	3,538,683.20
Jun 2019	ZAUS	Future	18,729	14.2331	14.1851	14.1975	14.1896	15	212,923.00
Sep 2019	ZAUS	Future	14,099	14.3961	14.3477	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	Future	9,600	14.5526	14.5035	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	Future	3,966	14.7327	14.6795	0.0000	0.0000	0	0.00
			<u>887,836</u>					<u>58,383.00</u>	<u>811,986,169.90</u>
									<u>190 098 546.00</u>
									<u>2 282 563 003 828.60</u>

Option

Dec 2018	ZAUS	11.64 Put	2,764	0.0014	0.1708	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.0052	0.2514	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.0249	0.4246	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.0641	0.6006	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.0766	0.6436	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	0.1523	0.8480	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	0.3370	1.1947	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	0.4890	1.4169	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	1.1978	2.2011	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1425.9162	1379.8918	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	2.5162	3.2918	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	3.1562	4.2924	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	3.4555	4.7694	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	3.9384	5.5469	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	5.8892	8.7471	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	929.9610	886.4615	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	89,580	6.5610	9.8615	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	7.3337	11.1461	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	8.2258	12.6314	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	733.8868	692.9829	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	11.8011	18.2429	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	687.4199	647.9402	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	14.0199	21.3402	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	20.5073	30.1527	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	21.6002	31.6089	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	511.9753	480.0746	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	38.5753	53.4746	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	471.4378	441.8233	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	48.0378	65.2233	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	71.8858	93.9267	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	96.1641	122.2076	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	103.0013	130.0423	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	121.4776	150.9825	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	137.7036	169.1317	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.80 Call	500	265.3612	250.4626	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	141.9612	173.8626	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	189.0050	225.3730	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	190.0397	181.4027	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	169.6107	162.5991	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	53,250	246.2107	285.9991	0.0000	0.0000	10,000	0.00
Dec 2018	ZAUS	14.10 Put	1,867	310.7954	353.3202	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	324.5264	367.5193	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	124.8881	121.3060	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	115,000	345.5993	389.2460	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	352.7480	396.5999	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	105.3315	103.1463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	381.9315	426.5463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	412.0208	457.3046	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	93.0774	91.7159	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	458.7238	504.8548	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	76.1301	75.8181	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	482.7301	529.2181	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	72.3600	72.2646	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	498.9600	545.6646	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	531.9339	579.0205	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	63.6793	64.0512	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	57.4458	58.1237	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	49.1645	50.2017	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	625.7645	673.6017	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	634.4995	682.3868	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	37.8354	39.2547	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	714.4354	762.6547	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	36.8135	38.2385	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	35.8152	37.2432	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	777.7953	826.0194	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	28.7013	30.1096	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	842.2695	890.4465	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	24.9608	26.3282	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	851.5608	899.7282	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	21.6901	23.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	898.2901	946.4000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	20.5014	21.7847	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	19.3753	20.6310	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	18.8350	20.0759	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	992.9453	1040.9108	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	12.2922	13.2960	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.00 Put	10,000	1088.8922	1136.6960	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	11.9458	12.9333	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	9.5004	10.3595	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	9.2319	10.0754	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	7.9981	8.7655	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	6.9286	7.6239	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1283.5286	1331.0239	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1332.6023	1380.0294	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1381.8007	1429.1646	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	4.4374	4.9439	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	3.6352	4.0748	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	3.4801	3.9059	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	3.3326	3.7449	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1579.9326	1627.1449	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	3.2614	3.6672	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	2.7513	3.1078	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	2.6941	3.0450	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	2.6384	2.9836	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	2.1925	2.4905	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	2.0639	2.3475	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1918.2616	1965.2985	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	1.6299	1.8629	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	1.4535	1.6648	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	1.2295	1.4121	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	1.0092	1.1622	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	0.9576	1.1034	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.8636	0.9961	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.8071	0.9315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.4864	0.5626	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.3789	0.4469	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.3493	0.4279	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	1.9615	2.2122	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	15.1235	16.5525	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	45.6566	50.7284	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	48.4051	53.7994	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	94.6382	106.7561	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	98.2512	110.6744	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	113.7179	127.3988	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	124.2385	138.7252	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	140.1095	155.7509	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	147.3313	163.4774	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	173.2850	191.1347	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.33 Put	135,043	196.1880	215.4247	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	205.2800	225.2685	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	217.8389	239.4844	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	239.0246	261.8175	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	253.8392	277.3810	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	273.1168	297.5894	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	9,570	293.2460	318.6365	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	327.2139	354.0489	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	336.0423	363.2344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	345.0049	372.5516	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	358.7011	386.7706	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	377.4265	406.1898	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	406.5077	436.2846	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	411.4671	441.4129	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	431.6385	462.2400	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	22,406	484.3011	516.4975	0.0000	0.0000	5,000	0.00
Mar 2019	ZAUS	14.04 Put	7,100	506.2498	539.0542	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	483.2587	471.8404	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	600.4587	636.2404	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	650.8275	687.6062	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	446.4987	436.3173	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	696.3514	733.9462	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	743.1664	781.5322	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	756.7728	795.3480	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	763.6120	802.2951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	387.0842	378.8700	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	380.9868	372.9738	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	798.1868	837.3738	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	819.2193	858.7012	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	840.4641	880.2298	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	905.4342	946.0092	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	972.1695	1013.4795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	300.3840	295.0010	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1025.2294	1067.1229	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1032.8941	1074.8633	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1040.5780	1082.6221	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1048.2810	1090.3992	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	256.8148	252.8111	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1206.1383	1249.5783	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1254.8106	1298.5915	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1271.1590	1315.0502	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1279.3561	1323.3015	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	15.17 Call	720	225.0968	222.0507	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1328.8542	1373.1100	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1337.1545	1381.4605	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	216.5978	213.8024	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1437.8415	1482.7013	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	188.8134	186.7997	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	181.8181	179.9892	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	180.4537	178.5765	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	175.1103	173.0464	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	172.3440	170.3476	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	169.6219	167.6957	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	154.2207	152.6803	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	137.0455	135.9132	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	134.9162	133.8312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	128.7409	127.7963	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	120.0484	119.2921	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	118.2052	117.4884	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	106.9594	106.4710	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	94.0015	93.7573	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	88.5184	88.3706	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	76.3214	76.3705	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	75.2104	75.2764	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	58.3631	59.0824	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	58.0036	58.7418	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	56.2468	57.0788	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	54.2281	55.1664	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	53.9014	54.8572	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	53.5762	54.5492	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	49.5814	50.7565	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	47.5921	48.8640	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	42.4652	43.9754	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	32.5553	34.4602	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	26.1677	26.7439	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.3142	7.9041	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	73.9052	81.4263	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	149.0932	161.4012	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	202.4945	218.0764	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	207.7709	223.6068	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	278.3545	297.3003	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	519.5492	547.8282	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	544.7714	573.6942	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	850.1425	832.3279	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	14.42 Call	30	667.8648	655.0458	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	611.9524	600.6360	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.63 Put	8,203	992.3910	1029.5217	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	537.0694	527.7667	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,000	462.5657	455.4864	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	354.0776	349.5848	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	322.4596	317.7625	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	302.5054	298.3392	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	289.9654	286.1316	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	124.5083	125.4734	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	12.7485	13.1721	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	144.6944	155.2936	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	648.2812	677.8989	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	679.7657	710.0273	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	744.9099	776.4206	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	772.8885	804.9082	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	812.8731	845.5792	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	883.5516	917.3919	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	1128.5496	1165.2911	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1596.1224	1637.3956	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1733.7036	1775.9375	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	504.6364	499.3850	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	299.0125	298.6090	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	265.5868	267.2397	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	251.5290	253.3875	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	246.5278	248.4579	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	226.1920	228.3975	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	217.2147	219.5333	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	209.8277	212.2324	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	208.0630	209.4370	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	153.9823	154.2024	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	63.7174	72.2101	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	594.3015	620.6099	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	425.8465	423.5623	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	201.0650	199.9186	0.0000	0.0000	0	0.00		
			<u>7,845,452</u>					<u>15,000.00</u>	<u>0.00</u>	<u>62 050 925.00</u>	<u>0.00</u>
	Total		8,733,288					73,383.00	811,986,169.90	252 149 471.00	2 282 563 003 828.60

<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

10,461,604

94,311.00

1 097 228 683.40

344,948,891

3,163,592,769,240.83