



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 20-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Mar 2019	CAHF	Future	10,000	208.4700	275.0000	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	16.1146	16.0419	0.0000	0.0000	0	0.00		
			<u>37</u>					<u>0.00</u>	<u>0.00</u>	<u>801 399.00</u>	<u>11 967 156 360.40</u>
Option											
Aug 2019	DAEU	17.01 Put	31,200	974.3331	1021.6895	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	357.6316	346.6667	0.0000	0.0000	0	0.00		
			<u>93,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 390 587.00</u>	<u>0.00</u>
		Total	93,637					0.00	0.00	2 191 986.00	11 967 156 360.40
Future											
Nov 2018	DAGB	Future	13	18.1378	17.9973	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	23	18.3349	18.1924	0.0000	0.0000	0	0.00		
			<u>36</u>					<u>0.00</u>	<u>0.00</u>	<u>53 977.00</u>	<u>889 500 016.60</u>
		Total	36					0.00	0.00	261 290.00	889 500 016.60
Future											
Nov 2018	DAUS	Future	179	14.1189	14.0146	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	368	14.1238	14.0218	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.1255	14.0231	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	2,092	14.1272	14.0248	0.0000	0.0000	335	4,723,667.50		
Dec 2018	DAUS	Future	500	14.1391	14.0368	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.1475	14.0454	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,405	14.1797	14.0773	0.0000	0.0000	15	212,287.50		
Jan 2019	DAUS	Future	55	14.1831	14.0806	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	150	14.2051	14.1020	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	8	14.2068	14.1037	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	Future	55	14.2307	14.1270	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,838	14.2325	14.1287	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.2548	14.1506	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.2583	14.1540	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,841	14.2807	14.1761	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.2894	14.1846	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.3275	14.2221	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,753	14.3310	14.2255	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.3379	14.2323	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.3865	14.2801	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.4403	14.3333	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.4947	14.3875	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.5490	14.4416	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.6056	14.4979	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.6595	14.5515	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.7116	14.6032	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.7704	14.6622	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.8314	14.7228	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.8885	14.7795	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.9496	14.8401	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.0106	14.9007	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.0638	14.9535	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.1308	15.0199	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.2411	15.1294	0.0000	0.0000	0	0.00		
			<u>113,314</u>					<u>350.00</u>	<u>4,935,955.00</u>	<u>10 880 720.00</u>	<u>133 519 693 195.10</u>
Option											
Nov 2018	DAUS	13.67 Put	20,000	7.8879	20.1719	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	20,000	181.5919	273.2295	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.76 Call	4,000	11.0301	9.0086	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.00 Put	500	1.7282	2.7566	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.80 Put	1,000	49.8775	79.5435	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.85 Put	600	61.5988	95.5659	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.08 Call	500	189.8455	146.5176	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	421	237.6365	314.9718	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.30 Call	600	98.3879	77.1710	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.80 Call	600	17.0847	15.6373	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.82 Call	250	15.8343	14.7229	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	0.1272	0.2142	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	0.0085	0.1481	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.45 Put	23,000	1320.4353	1421.9039	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.75 Put	65,000	59.2027	91.5720	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.90 Put	30,000	103.2370	147.2089	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	14.30 Put	30,000	307.4879	382.9790	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	795.2773	892.1654	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1173.6079	1274.1765	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	125	65.4872	97.7303	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	250.6194	205.0469	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	97.5210	80.2332	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	58.1690	83.9858	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	115.1652	154.8804	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	33.2345	27.8495	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	7.7518	7.0625	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	170.0596	210.9228	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	373.0954	439.5030	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	826.3076	914.3979	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1182.5144	1277.6816	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	25.6515	33.4194	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	34.2951	44.3936	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	135.5329	115.0978	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	117.0643	99.4564	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	16.9878	23.4338	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	161.4732	200.3358	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	313.1353	274.0915	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	371.1863	435.9693	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	892.3836	980.6825	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	3.9464	3.4365	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	2.6680	2.8162	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	126.4821	159.3108	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	389.2281	343.8695	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	199.9245	177.4874	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	13.9981	17.3311	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	46.2545	59.3515	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	420.8283	482.5257	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	448.4168	513.0270	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	379.4544	344.9660	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	179.1683	163.8354	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	127.2986	117.0612	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	76.5350	91.2928	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	479.7570	537.6550	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	507.1940	567.5036	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	432.3385	397.1402	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	235.7594	217.1486	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	177.3430	163.4799	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	423.8852	474.6280	0.0000	0.0000	0	0.00

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Mar 2019	DAUS	13.00 Put	500	105.3159	123.3594	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	530.3184	587.0518	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	557.7459	615.9938	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	478.0039	442.8061	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	285.1791	264.1532	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	225.2923	207.8262	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	134.8384	155.4189	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1160.2505	1086.9170	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	574.4195	630.0856	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	601.7464	658.7298	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	517.1048	481.8007	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	329.5613	306.9412	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	269.7307	249.9737	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	162.5317	184.6842	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	612.7813	667.9139	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	640.0385	696.3896	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	551.0385	516.4437	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	368.5125	345.7642	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	305.7442	285.5293	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	944.1158	1009.9405	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	210.2788	197.4068	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	185.7180	209.0543	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	644.1515	698.6116	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	671.3873	726.9975	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	579.0374	545.3308	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	400.4560	376.1542	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	337.2868	316.5143	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	319.5559	352.9727	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	328.4398	308.3918	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	209.2915	235.6984	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	676.8108	730.2662	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	703.9431	758.5262	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	613.9267	580.8956	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	436.7264	412.1979	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	374.4247	353.1152	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	846.9241	905.8067	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	424.9203	401.5458	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	227.8516	256.7481	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	704.0469	756.6973	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	731.1094	784.8210	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	637.8546	605.4505	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	463.6550	438.9740	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	16.70 Call	250	401.4281	379.8288	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	215.2961	197.6821	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	244.4477	275.4604	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	727.6852	780.0038	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	754.6537	807.9514	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	666.7702	634.5034	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	493.4908	468.7293	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	429.1035	407.5346	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	262.0497	293.4042	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	750.4712	802.3857	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	777.3509	830.1849	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	688.2676	656.4055	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	518.1222	493.4688	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	455.5852	433.9360	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	277.7312	308.3863	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	770.7647	822.4259	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	797.5765	850.1266	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	713.2292	682.3050	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	544.9935	520.3885	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	483.6110	461.7364	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	296.7581	325.6763	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	791.9673	843.6981	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	818.6756	871.3144	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	744.1610	713.0804	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	579.3004	554.7659	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	518.6628	496.9244	0.0000	0.0000	0	0.00		
			<u>700,153</u>					<u>0.00</u>	<u>0.00</u>	<u>21 881 883.00</u>	<u>0.00</u>
		Total	813,467					350.00	4,935,955.00	32 762 603.00	133 519 693 195.10
Future											
Dec 2018	EUUS	Future	50	1.1419	1.1451	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
Future											
Dec 2018	GBUS	Future	250	1.2847	1.2840	0.0000	0.0000	0	0.00		
			<u>250</u>					<u>0.00</u>	<u>0.00</u>	<u>170 231.00</u>	<u>2 190 547 280.00</u>
		Total	250					0.00	0.00	170 231.00	2 190 547 280.00
Future											
Dec 2018	ZAAD	Future	23,926	10.2684	10.2527	0.0000	0.0000	0	0.00		
Mar 2019	ZAAD	Future	324	10.3998	10.3821	0.0000	0.0000	0	0.00		

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Jun 2019	ZAAD	Future	4,934	10.5274	10.5093	0.0000	0.0000	0	0.00		
			<u>29,184</u>					0.00	0.00	3 765 729.00	32 860 524 940.50
		Total	29,184					0.00	0.00	3 798 106.00	32 860 524 940.50
Future											
Dec 2018	ZACA	Future	500	10.6936	10.6563	0.0000	0.0000	0	0.00		
Mar 2019	ZACA	Future	400	10.8361	10.7969	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	10.9823	10.9406	0.0000	0.0000	0	0.00		
			<u>1,150</u>					0.00	0.00	139 613.00	1 376 968 315.10
		Total	1,150					0.00	0.00	139 613.00	1 376 968 315.10
Future											
Dec 2018	ZADK	Future	140	2.1713	2.1611	0.0000	0.0000	0	0.00		
			<u>140</u>					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	130,140	16.1589	16.0867	16.1997	16.1434	359	5,803,588.40		
Mar 2019	ZAEU	Future	36,504	16.4868	16.4112	16.5013	16.4576	762	12,558,063.70		
Jun 2019	ZAEU	Future	4,675	16.7941	16.7162	0.0000	0.0000	231	3,880,753.80		
Sep 2019	ZAEU	Future	9,050	17.1332	17.0550	17.1232	17.1232	237	4,060,379.20		
			<u>180,369</u>					1,589.00	26,302,785.10	15 672 878.00	225 547 072 089.50
Option											
Mar 2019	ZAEU	15.60 Put	462	215.3295	240.1486	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	848.0208	808.4606	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	1180.0122	1240.1294	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	69.2417	67.2039	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	614.8546	596.2894	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	81.5679	87.8679	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	560.7038	592.4618	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	496.0045	482.3824	0.0000	0.0000	0	0.00		
			<u>108,486</u>					0.00	0.00	10 956 414.00	0.00
		Total	288,855					1,589.00	26,302,785.10	26 629 292.00	225 547 072 089.50
Future											
Dec 2018	ZAFR	Future	1,616	14.2705	14.1339	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	14.8624	14.7182	0.0000	0.0000	0	0.00		
			<u>1,766</u>					0.00	0.00	620 908.00	6 672 647 028.20
		Total	1,766					0.00	0.00	620 908.00	6 672 647 028.20

Future

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Dec 2018	ZAGB	Future	448,799	18.1792	18.0391	18.2084	18.1200	1,043	18,915,361.60		
Mar 2019	ZAGB	Future	11,340	18.4771	18.3324	18.4523	18.3978	513	9,451,993.40		
Jun 2019	ZAGB	Future	5,301	18.7568	18.6088	18.6919	18.6568	660	12,323,693.00		
Sep 2019	ZAGB	Future	9,430	19.0627	18.9149	18.9661	18.9280	760	14,402,687.00		
			<u>474,870</u>					<u>2,976.00</u>	<u>55,093,735.00</u>	<u>12 899 369.00</u>	<u>219 609 460 974.00</u>
Option											
Dec 2018	ZAGB	19.30 Call	200	49.2543	37.5958	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	496.9609	554.3648	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1162.9769	1259.1190	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	257.6669	228.8909	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	227.3266	201.6659	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	91.7325	80.0069	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		479,070					2,976.00	55,093,735.00	14 678 482.00	219 609 460 974.00
Future											
Dec 2018	ZAJY	Future	6,905	0.1261	0.1248	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	0.1361	0.1339	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	439	14.1509	14.0489	0.0000	0.0000	0	0.00		
Mar 2019	ZAUM	Future	10	14.3119	14.2068	0.0000	0.0000	0	0.00		
			<u>449</u>					<u>0.00</u>	<u>0.00</u>	<u>153 916.00</u>	<u>178 157 495 630.00</u>
	Total		449					0.00	0.00	158 439.00	178 157 495 630.00
Future											
Dec 2018	ZAUS	Future	788,049	14.1509	14.0489	14.1690	14.0343	36,851	519,784,210.10		
Mar 2019	ZAUS	Future	58,734	14.3119	14.2068	14.2872	14.1868	2,422	34,512,834.10		
Jun 2019	ZAUS	Future	18,836	14.4649	14.3578	14.3859	14.3859	95	1,366,705.50		
Sep 2019	ZAUS	Future	14,099	14.6307	14.5229	14.5385	14.5385	95	1,382,057.50		
Dec 2019	ZAUS	Future	9,600	14.7920	14.6837	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	3,966	14.9772	14.8675	0.0000	0.0000	0	0.00		
			<u>893,284</u>					<u>39,463.00</u>	<u>557,045,807.20</u>	<u>189 643 415.00</u>	<u>2 276 242 254 990.30</u>
Option											
Dec 2018	ZAUS	11.64 Put	2,764	0.1659	0.2016	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	11.75 Put	228,616	0.2378	0.2898	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.3867	0.4736	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.5333	0.6551	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.5686	0.6989	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	0.7339	0.9042	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	1.0076	1.2449	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	1.1795	1.4593	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	1.7712	2.1990	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1653.4674	1552.0970	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	2.5674	3.1970	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	3.8204	4.7707	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	4.4451	5.5256	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	5.4872	6.7457	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	9.3756	11.8747	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1161.6169	1062.5611	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	10.7169	13.6611	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	12.2484	15.7071	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	13.9963	18.0479	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	969.1633	872.6769	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	19.2592	25.1155	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	921.7535	826.1590	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	20.8535	27.2590	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	25.0932	32.9578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	25.7635	33.8587	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	736.2174	650.4307	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	35.3174	51.5307	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	693.5039	610.0570	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	42.6039	61.1570	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	60.5143	84.2374	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	78.4000	106.6739	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	83.4042	112.8643	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	96.8928	129.3904	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	108.7195	143.7086	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	462.7224	396.3432	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	111.8224	147.4432	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	146.1838	188.2213	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	366.5803	309.8687	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	337.6463	284.1848	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	186.7463	235.2848	0.0000	0.0000	5,000	0.00
Dec 2018	ZAUS	14.10 Put	1,867	233.6020	289.9007	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	243.7249	301.8157	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	269.7802	226.7615	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.15 Put	235,564	259.3746	320.1244	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	264.9676	326.3420	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	238.8437	200.6681	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	287.9437	351.7681	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	311.8718	378.0589	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	218.8983	183.6636	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	349.4819	419.0459	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	189.9298	159.1028	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	369.0298	440.2028	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	183.2278	153.4426	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	382.3278	454.5426	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	409.5421	483.7690	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	167.3719	140.0863	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	155.5742	130.1787	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	139.2730	116.5296	0.0000	0.0000	15,000	0.00
Dec 2018	ZAUS	14.50 Put	15,500	488.3730	567.6296	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	495.8111	575.4897	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	115.5280	96.7292	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	564.6280	647.8292	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	113.3711	94.9360	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	111.2528	93.1734	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	620.3022	705.9265	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	95.5892	80.1698	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	677.6619	765.4463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	86.8829	72.9545	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	685.9829	774.0545	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	78.9376	66.0950	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	728.0376	817.1950	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	75.9588	63.5272	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	73.0887	61.0536	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	71.6928	59.8516	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	813.9222	905.2743	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	52.8966	44.3353	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	901.9966	995.4353	0.0000	0.0000	20,000	0.00
Dec 2018	ZAUS	15.01 Call	10,000	51.8259	43.4533	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	43.9773	36.9833	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	43.0805	36.2440	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	38.8557	32.7609	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	35.0338	29.6088	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1084.1338	1180.7088	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1130.6792	1227.8573	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1177.5589	1275.2800	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.37 Call	4,372	24.5947	20.9837	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	20.3802	17.4839	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	19.5463	16.7793	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	18.7460	16.1033	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1367.8460	1467.2033	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	18.3582	15.7755	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	15.5533	13.3847	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	15.2372	13.1126	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	14.9276	12.8462	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	12.4126	10.6829	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	11.6742	10.0475	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1698.4307	1799.1295	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	9.1433	7.8678	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	8.0969	6.9665	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	6.7545	5.8091	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	5.4218	4.6597	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	5.1083	4.3891	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	4.5368	3.8961	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	4.1935	3.5998	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	2.2624	1.9335	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	1.4472	1.2308	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	1.0093	1.1377	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.1380	2.1286	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	13.2833	14.9723	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	41.0149	47.3601	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	43.4990	50.2683	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	77.9704	92.5196	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	80.9843	95.9815	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	93.9112	110.7772	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	102.7278	120.8211	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	116.0625	135.9504	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	122.1448	142.8267	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	144.0599	167.5023	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	163.4823	189.2410	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	171.2136	197.8624	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	181.9069	209.7615	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	198.7880	228.4888	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	550	210.6088	241.5670	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	226.0391	259.7806	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	9,570	242.2134	278.7985	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	271.5359	310.8972	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	279.1836	319.2447	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.72 Put	10,000	286.9587	327.7172	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	298.8615	340.6681	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	315.1781	358.3768	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	340.6026	385.8929	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	344.9516	390.5876	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	362.6594	409.6783	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	17,406	409.1134	459.5673	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	428.5576	480.3731	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	511.1768	568.3054	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	555.3131	615.8443	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	578.5312	534.8034	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	596.0324	658.8741	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	638.3555	703.1974	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	650.6872	716.0951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	656.8962	722.5785	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	507.5747	468.9852	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	500.2251	462.1787	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	688.3251	755.3787	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	707.4951	775.3530	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	726.8901	795.5430	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	786.4111	857.3704	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	847.8549	921.0042	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	896.9108	971.6860	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	904.0080	979.0094	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	911.1236	986.3530	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	918.2636	993.7134	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	200	347.1688	321.0219	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1065.3811	1145.0934	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1111.1016	1191.9190	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1126.4873	1207.6602	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1134.2065	1215.5553	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	307.1534	284.0993	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1180.8775	1263.2647	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1188.7160	1271.2707	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	296.3428	274.1287	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1284.0300	1368.5143	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	251.6526	232.9480	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	249.8853	231.3192	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	242.9494	224.9299	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	239.5630	221.8119	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	236.2262	218.7397	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	217.2724	200.7400	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	15.81 Call	10	195.4051	179.8369	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	192.5704	177.2314	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	184.3308	169.6506	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	172.6694	158.9301	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	170.1863	156.6473	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	154.9646	142.6591	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	137.2565	126.3919	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	129.7018	119.4547	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	112.7605	103.8988	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	111.2063	102.4717	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	86.9987	80.2479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	86.4173	79.7155	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	83.5782	77.1086	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	80.3131	74.3682	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	79.7829	73.9671	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	79.2567	73.5677	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	73.4851	68.6403	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	70.8349	66.1754	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	63.9667	59.7857	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	50.5108	47.2477	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	42.6024	39.8637	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.1319	7.3180	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	59.5316	67.3104	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	124.2038	140.6528	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	169.8597	192.0415	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	174.3196	197.0595	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	236.0373	264.2289	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	445.8515	491.5555	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	468.7030	515.6732	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1001.1352	943.5191	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	798.0694	750.8429	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	734.7155	690.9245	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	881.0778	945.4203	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	649.1526	610.1566	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,000	562.3984	528.6392	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	434.9226	409.0693	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	398.9107	375.2779	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	376.6092	353.0489	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	361.7292	339.0409	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	155.3970	147.9250	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	12.9344	12.7752	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	110.0022	129.4238	0.0000	0.0000	0	0.00

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Sep 2019	ZAUS	13.91 Put	81,930	569.6688	616.5180	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	598.6638	646.8180	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	658.8673	709.5839	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	684.8060	736.5722	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	721.9419	775.1642	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	787.7958	843.4660	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	1019.4406	1081.3233	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1463.0005	1535.5227	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1594.8451	1669.8200	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	591.5340	562.4316	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	357.0193	338.9092	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	310.5759	299.3246	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	293.8617	283.5163	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	287.9088	277.8871	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	263.6556	254.9358	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	252.9259	244.7779	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	244.0805	236.4029	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	241.9649	234.4003	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	198.0760	182.3847	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	51.5975	61.6396	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	530.8541	568.7029	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	493.2914	471.6028	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	250.7283	233.1497	0.0000	0.0000	0	0.00		
			<u>8,165,460</u>					<u>40,000.00</u>	<u>0.00</u>	<u>61 543 549.00</u>	<u>0.00</u>
	Total		9,058,744					79,463.00	557,045,807.20	251 186 964.00	2 276 242 254 990.30
	Grand Total		10,785,869					84,378.00	643 378 282.30	343,723,539	3,155,498,443,386.63