



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 22-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Mar 2019	CAHF	Future	10,000	130.0100	156.3800	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	15.7243	15.8953	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											
Dec 2018	DAEU	15.83 Put	16,000	311.0421	0.0000	0.0000	0.0000	32,000	0.00		
Aug 2019	DAEU	17.01 Put	31,200	1205.2086	1106.4007	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	294.1462	314.7793	0.0000	0.0000	0	0.00		
			<u>109,600</u>					<u>32,000.00</u>	<u>0.00</u>	<u>1 422 587.00</u>	<u>0.00</u>
		Total	109,637					32,000.00	0.00	2 223 986.00	11 967 156 360.40
Future											
Nov 2018	DAGB	Future	13	17.7509	17.8272	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	23	17.9465	18.0055	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	0	13.7768	13.9295	0.0000	0.0000	179	2,466,047.20		
Nov 2018	DAUS	Future	368	13.7802	13.9360	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	13.7819	13.9382	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	1,917	13.7836	13.9396	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	500	13.7953	13.9497	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	13.8037	13.9569	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,205	13.8357	13.9847	0.0000	0.0000	200	2,795,000.00		
Jan 2019	DAUS	Future	55	13.8391	13.9879	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	150	13.8613	14.0086	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>		
Jan 2019	DAUS	Future	8	13.8630	14.0101	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	13.8783	14.0244	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.8869	14.0331	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,838	13.8887	14.0350	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.9112	14.0603	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.9147	14.0641	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	13.9320	14.0836	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,841	13.9372	14.0888	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	13.9457	14.0970	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.9833	14.1330	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,753	13.9867	14.1362	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	13.9936	14.1428	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.0414	14.1886	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.0944	14.2398	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.1476	14.2944	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.2009	14.3490	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.2560	14.4056	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3081	14.4593	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3585	14.5112	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.4149	14.5692	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.4725	14.6283	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.5265	14.6835	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.5841	14.7426	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.6418	14.8016	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.6920	14.8531	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.7552	14.9179	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.8594	15.0246	0.0000	0.0000	0	0.00		
			<u>112,826</u>					<u>379.00</u>	<u>5,261,047.20</u>	<u>10 881 482.00</u>	<u>133 530 337 689.40</u>
Option											
Nov 2018	DAUS	13.67 Put	20,000	21.6118	12.6650	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	20,000	469.0146	332.4289	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.76 Call	4,000	2.7472	4.8944	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.00 Put	500	3.0861	2.1742	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.80 Put	1,000	150.3594	94.3420	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.85 Put	600	179.7558	113.0501	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.08 Call	500	49.0622	97.0154	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	421	491.3389	363.4179	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.30 Call	600	20.2984	43.9137	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.80 Call	600	3.4906	6.6678	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.82 Call	250	3.2997	6.2870	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	0.0330	0.0442	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	0.1808	0.1107	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	1659.7736	1506.1297	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	65,000	164.4940	106.3289	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	249.8079	171.4742	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	554.1223	434.1756	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	1114.7769	967.5470	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1509.2675	1356.8317	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.50 Put	25,000	73.8886	0.0000	0.0000	0.0000	25,000	0.00
Dec 2018	DAUS	13.75 Put	125	172.4716	113.4015	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	100.0894	156.2762	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	31.3736	54.3801	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	147.7784	98.6249	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	253.5927	180.5559	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	10.1092	16.6271	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	2.6935	3.8655	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	322.0056	244.6780	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	372.2627	286.8226	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	603.5421	495.0502	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	1122.9937	989.2454	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1501.5382	1359.7855	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	58.5724	39.1961	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	80.1599	53.0940	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	67.1550	92.2558	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	57.0332	78.9031	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	43.0272	29.4946	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	296.3585	228.8984	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	182.0561	230.6595	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	588.5320	486.3898	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	1183.7242	1053.7019	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	2.5971	2.7641	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	2.3081	2.3571	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	237.0538	181.2316	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	238.3888	293.9924	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	116.4427	146.9860	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	26.4204	17.3296	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	87.9208	66.2797	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	616.2695	525.3493	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	650.8082	557.5258	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	252.7582	299.9938	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	114.3972	138.4780	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	79.2754	97.8507	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	128.6748	101.1947	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	667.2492	576.9255	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	14.25 Put	250	700.5824	608.1028	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	308.8424	357.3001	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	165.1046	192.7642	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	121.8572	143.8481	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	586.7329	508.8008	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	166.6275	135.1967	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	714.0037	626.6355	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	746.4694	657.1913	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	358.3046	404.2147	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	211.4316	239.9440	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	163.6634	187.2561	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	203.0867	168.8397	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	926.2813	1017.3711	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	754.6500	670.1612	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	786.3815	700.1784	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	401.1971	444.3847	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	252.9373	282.6726	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	204.1274	228.5371	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	235.9492	199.8282	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	790.2807	708.6337	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	821.4423	738.1170	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	438.3432	479.7214	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	289.1480	319.3140	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	238.1107	263.3281	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1155.7993	1060.4458	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	169.8511	184.3064	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	262.9642	225.3410	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	820.1499	739.4308	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	850.9141	768.7630	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	469.2412	510.2941	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	319.8315	350.5042	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	268.7751	294.8883	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	428.7387	376.6410	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	262.4981	287.7158	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	292.0286	253.0803	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	851.0892	770.9237	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	881.4531	800.0691	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	506.0828	547.2232	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	355.8155	387.1657	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	304.6946	331.7633	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	1037.3572	949.6584	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	348.4971	377.5072	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	13.00 Put	500	317.2537	276.7837	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.20 Put	250	876.9805	796.3453	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	907.3082	825.3327	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	532.3695	572.3612	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	383.5318	413.8227	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	331.8001	358.0844	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	165.5577	182.5398	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	340.5660	299.1919	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	899.4918	819.3188	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	929.5730	848.1251	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	562.2478	602.5065	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	413.3749	444.2266	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	359.4857	386.3097	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	362.8501	317.8395	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	921.2419	841.5126	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	951.1095	870.1404	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	585.0225	625.5013	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	438.7131	469.6064	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	386.0071	413.1164	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	381.8585	333.4744	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	940.5821	861.5909	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	970.2811	890.0624	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	609.4819	651.0779	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	464.6319	496.6554	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	412.5543	441.0703	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	401.0154	350.5011	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	961.7994	883.2546	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	991.3510	911.6204	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	639.5542	681.4569	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	498.0009	530.8681	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	448.6398	475.9872	0.0000	0.0000	0	0.00		
			<u>743,153</u>					<u>25,000.00</u>	<u>0.00</u>	<u>21 942 883.00</u>	<u>0.00</u>
		Total	855,979					25,379.00	5,261,047.20	32 824 365.00	133 530 337 689.40
Future											
Dec 2018	EUUS	Future	50	1.1420	1.1415	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	1.2886	1.2796	1.2889	1.2885	3	38,662.00		

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			250					3.00	38,662.00	170 234.00	2 190 585 942.00
	Total		250					3.00	38,662.00	170 234.00	2 190 585 942.00
Future											
	Dec 2018 ZAAD	Future	23,926	10.0009	10.1413	10.1095	10.0084	118	1,186,956.10		
	Mar 2019 ZAAD	Future	324	10.1328	10.2713	0.0000	0.0000	0	0.00		
	Jun 2019 ZAAD	Future	4,934	10.2592	10.3941	0.0000	0.0000	0	0.00		
			29,184					118.00	1,186,956.10	3 765 847.00	32 861 711 896.60
	Total		29,184					118.00	1,186,956.10	3 798 224.00	32 861 711 896.60
Future											
	Dec 2018 ZACA	Future	700	10.4422	10.5094	0.0000	0.0000	0	0.00		
	Mar 2019 ZACA	Future	250	10.5851	10.6494	0.0000	0.0000	0	0.00		
	Sep 2019 ZACA	Future	250	10.7287	10.7896	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	2.1194	2.1415	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	118,928	15.7677	15.9349	15.9820	15.7447	14,057	221,901,285.80		
	Mar 2019 ZAEU	Future	36,673	16.0929	16.2561	16.2240	16.1200	177	2,850,464.50		
	Jun 2019 ZAEU	Future	4,675	16.3949	16.5503	0.0000	0.0000	0	0.00		
	Sep 2019 ZAEU	Future	9,050	16.7267	16.8900	0.0000	0.0000	0	0.00		
			169,326					14,234.00	224,751,750.30	15 690 686.00	225 829 346 095.00
Option											
	Mar 2019 ZAEU	15.60 Put	462	339.6991	281.6345	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	16.00 Call	650	626.0097	711.2446	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	17.33 Put	462	1478.6070	1349.4471	0.0000	0.0000	0	0.00		
	Mar 2019 ZAEU	19.65 Call	462	44.0822	53.4352	0.0000	0.0000	0	0.00		
	Sep 2019 ZAEU	18.60 Call	55,000	512.0581	547.6641	0.0000	0.0000	0	0.00		
	Dec 2019 ZAEU	13.73 Put	17,150	103.1569	92.1097	0.0000	0.0000	0	0.00		
	Dec 2019 ZAEU	16.15 Put	17,150	710.7599	643.1792	0.0000	0.0000	0	0.00		
	Dec 2019 ZAEU	20.62 Call	17,150	434.6663	450.3522	0.0000	0.0000	0	0.00		
			108,486					0.00	0.00	10 956 414.00	0.00
	Total		277,812					14,234.00	224,751,750.30	26 647 100.00	225 829 346 095.00

Future

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Dec 2018	ZAFR	Future	1,366	13.9008	14.0549	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	14.4849	14.6282	0.0000	0.0000	0	0.00	
			<u>1,516</u>					<u>0.00</u>	<u>0.00</u>	<u>621 158.00</u>
		Total	1,516					0.00	0.00	621 158.00
Future										
Dec 2018	ZAGB	Future	423,560	17.7917	17.8634	17.9600	17.7638	27,026	480,942,938.90	
Mar 2019	ZAGB	Future	11,350	18.0885	18.1549	18.2995	18.1660	1,020	18,552,843.00	
Jun 2019	ZAGB	Future	5,301	18.3645	18.4226	18.4506	18.4458	40	737,923.00	
Sep 2019	ZAGB	Future	9,895	18.6640	18.7277	18.7371	18.7371	20	374,742.00	
			<u>450,106</u>					<u>28,106.00</u>	<u>500,608,446.90</u>	<u>12 928 871.00</u>
		Total								220 135 866 248.60
Option										
Dec 2018	ZAGB	19.30 Call	200	21.6324	23.1878	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	18.00 Put	500	646.0169	623.5354	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	1423.8952	1380.3103	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	179.3038	194.4915	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	156.3885	170.3764	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	59.1827	66.8596	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>
		Total	454,306					28,106.00	500,608,446.90	14 707 984.00
										220 135 866 248.60
Future										
Dec 2018	ZAJY	Future	6,905	0.1224	0.1237	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>
		Total	6,905					0.00	0.00	1 021 902.00
										11 470 576 312.50
Future										
Jun 2019	ZAKS	Future	2,166	0.1341	0.1353	0.0000	0.0000	0	0.00	
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>
		Total	2,166					0.00	0.00	38 066.00
										515 662 000.00
Future										
Dec 2018	ZAUM	Future	439	13.8071	13.9597	0.0000	0.0000	0	0.00	
Mar 2019	ZAUM	Future	10	13.9679	14.1182	0.0000	0.0000	0	0.00	
			<u>449</u>					<u>0.00</u>	<u>0.00</u>	<u>153 946.00</u>
		Total	449					0.00	0.00	158 469.00
										178 199 797 080.00
Future										
Dec 2018	ZAUS	Future	788,954	13.8071	13.9597	13.9938	13.7700	148,474	2,058,447,399.70	
Mar 2019	ZAUS	Future	63,903	13.9679	14.1182	14.1160	13.9230	7,084	99,293,615.80	
Jun 2019	ZAUS	Future	18,716	14.1185	14.2644	14.2000	14.1000	8	113,200.00	

<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	Future	14,099	14.2803	14.4307	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	Future	9,600	14.4353	14.5902	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	3,966	14.6102	14.7693	0.0000	0.0000	0	0.00		
			<u>899,238</u>					<u>155,566.00</u>	<u>2,157,854,215.50</u>	<u>189,860,755.00</u>	<u>2,279,265,770,892.00</u>

Option

Dec 2018	ZAUS	11.64 Put	2,764	0.3120	0.2467	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.4577	0.3581	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.7672	0.5920	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	1.0784	0.8248	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	1.1540	0.8810	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	1.5108	1.1456	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	2.1093	1.5863	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	2.4888	1.8644	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	3.8093	2.8261	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1312.3540	1463.8267	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	5.2540	4.1267	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	7.3603	5.8797	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	8.3893	6.6606	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	10.0871	7.9393	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	17.1871	13.1942	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	826.7618	974.7009	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	19.6618	15.0009	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	22.5026	17.0631	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	25.7631	19.4169	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	646.2190	784.8729	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	42.3288	26.5191	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	604.6086	738.3889	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	47.5086	28.6889	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	61.4045	38.0875	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	63.6068	39.6010	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	451.7051	571.1930	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	94.6051	61.4930	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	417.2487	532.5212	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	110.1487	72.8212	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	146.1439	99.7845	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	179.7772	125.7542	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	188.8634	132.8826	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	212.7627	151.8376	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	233.0932	168.1798	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	245.4420	332.1305	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	238.3420	172.4305	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	296.7045	218.5499	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.95 Call	39,589	185.3171	253.7627	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	168.2880	232.1021	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	361.1880	272.4021	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	431.1941	333.6884	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	445.8035	346.6464	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	130.2794	182.9101	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	235,564	468.0714	366.5013	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	475.5862	373.2289	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	113.1910	160.3665	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	506.0910	400.6665	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	537.2751	428.9197	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	102.2728	145.8067	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	585.2419	472.7486	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	86.8249	124.9777	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	609.7249	495.2777	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	83.3224	120.2136	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	626.2224	510.5136	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	659.6140	541.4854	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	75.1417	109.0280	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	69.1568	100.7864	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	61.0289	89.5147	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	753.9289	629.8147	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	762.5698	638.0566	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	48.6325	73.3489	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	841.5325	713.6489	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	47.5297	71.8957	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	46.4509	70.4713	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	904.2880	773.9114	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	38.6030	59.6841	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	968.0621	835.1012	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	34.3478	53.6403	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	977.2478	843.9403	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	30.5381	48.1772	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	1023.4381	888.4772	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	29.1291	46.1430	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	27.7821	44.1914	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	27.1307	43.2450	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	1116.9879	979.0972	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	18.9539	31.1842	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	1211.8539	1071.4842	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	18.5026	30.5083	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	15.2495	25.5876	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.10 Call	500	14.8844	25.0298	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	13.1818	22.4153	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	11.6729	20.0699	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1404.5729	1260.3699	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1453.4020	1308.2672	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1502.3547	1356.3831	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	8.1709	13.7975	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	6.7876	11.4090	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	6.5156	10.9386	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	6.2554	10.4882	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1699.1554	1550.7882	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	6.1295	10.2704	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	5.2153	8.6870	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	5.1119	8.5078	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	5.0107	8.3325	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	4.1914	6.9134	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	3.9517	6.4986	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	2036.0931	1885.4877	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	3.1325	5.0832	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	2.7945	4.5011	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	2.3605	3.7568	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	1.9285	3.0203	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	1.8266	2.8475	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	1.6402	2.5327	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	1.5279	2.3437	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.9013	1.2816	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.9405	0.9187	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.9810	0.9606	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.5866	2.2891	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	19.2254	16.3136	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	61.1139	50.1051	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	64.8662	53.1254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	128.7143	102.1409	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	133.1676	105.8828	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	152.0638	121.8481	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	164.7784	132.6624	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	183.7848	148.9179	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	192.3698	156.2931	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	222.9184	182.7052	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	250.3138	205.9094	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	261.5940	215.0959	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	277.1031	227.7645	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.46 Put	20,000	301.3595	249.0849	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	550	318.1913	263.9606	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	339.9727	283.2878	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	9,570	362.5751	303.4335	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	400.4204	337.3565	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	410.2001	346.1595	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	420.1099	355.0942	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	435.2114	368.7340	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	455.7823	387.3685	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	487.5683	416.2690	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	492.9735	421.1968	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	514.8935	441.2164	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	17,406	571.7717	493.4167	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	595.7833	515.1438	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	464.1545	526.2368	0.0000	0.0000	2,000	0.00
Mar 2019	ZAUS	14.20 Put	2,000	696.2545	608.0368	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	749.0212	657.5780	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	430.3623	488.4323	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	796.4958	702.3280	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	845.1354	748.3412	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	859.2381	761.7115	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	866.3248	768.4334	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	375.6152	426.9442	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	369.9873	420.6074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	902.0873	802.4074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	923.8041	823.0740	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	945.7116	843.9490	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	1012.5409	907.7892	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	1080.9182	973.3684	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1135.0959	1025.5279	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1142.9053	1033.0696	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1150.7348	1040.6304	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1158.5787	1048.2103	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	254.2432	290.1677	0.0000	0.0000	2,120	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1318.9107	1203.5992	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1368.1986	1251.5313	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1384.7423	1267.6364	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1393.0337	1275.7107	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	224.2406	256.3617	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1443.0743	1324.4749	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1451.4596	1332.6535	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	216.1715	247.2564	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	15.32 Put	262,812	1553.0826	1431.8990	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	189.6843	0.0000	0.0000	0.0000	2,000	0.00
Mar 2019	ZAUS	15.45 Call	20,000	182.5756	209.7461	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	181.1876	208.2659	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	175.7462	202.4647	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	173.0908	199.4525	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	170.4803	196.4855	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	155.6651	179.6423	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	139.0648	160.7356	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	137.0022	158.3818	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	131.0061	151.5423	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	122.5450	141.8800	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	120.7469	139.8258	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	109.7489	127.2482	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	97.0093	112.6533	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	91.5941	106.4412	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	79.4881	92.5350	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	78.3807	91.2619	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	62.0279	71.9634	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	61.6646	71.5702	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	59.8911	69.6472	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	57.8507	67.4344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	57.5190	67.0752	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	57.1909	66.7186	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	53.1342	62.3152	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	51.1078	60.1138	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	45.8623	54.4055	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	35.6133	43.2092	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	26.9247	35.7240	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.2232	7.8177	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	92.0691	76.3508	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	182.0639	153.3698	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	243.9968	207.4878	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	249.9568	212.8035	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	328.8935	283.7707	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	593.5307	524.8670	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	620.3807	550.0061	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	814.3238	886.4807	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	644.1631	702.5740	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	591.8057	645.7531	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	1087.8838	994.5939	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	521.6137	569.3924	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	15.10 Call	1,000	451.9564	493.0161	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	348.4597	380.9266	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	317.2387	348.1225	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	298.1503	327.4050	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	286.1408	314.3655	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	127.2565	139.7054	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	14.1598	13.4348	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	175.5464	143.1120	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	722.9966	650.4173	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	756.0242	681.7662	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	824.1541	746.6084	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	853.3337	774.4493	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	894.9592	814.2319	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	968.1484	884.5468	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	1220.6115	1128.3429	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1698.7569	1592.4276	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1838.4772	1729.0162	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	495.6059	533.0690	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	299.2112	320.3421	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	268.1096	284.1389	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	254.3457	269.3210	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	249.4427	264.0447	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	229.4567	242.5512	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	220.6129	233.0462	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	211.7061	225.2109	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	207.8387	223.3386	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	153.4441	171.2858	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	88.3516	67.8679	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	659.6255	597.7069	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	423.0909	451.0465	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	199.3940	221.3650	0.0000	0.0000	0	0.00		
			<u>8,170,520</u>					<u>6,120.00</u>	<u>0.00</u>	<u>61 549 669.00</u>	<u>0.00</u>
	Total		9,069,758					161,686.00	2,157,854,215.50	251 410 424.00	2 279 265 770 892.00
	Grand Total		10,819,388					261,526.00	2 889 701 078.00	344,089,822	3,159,402,734,590.43