



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 21-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Mar 2019	CAHF	Future	10,000	156.3800	208.4700	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>
		<b>Total</b>	<b>10,000</b>					<b>0.00</b>	<b>0.00</b>	<b>10 000.00</b>	<b>2 531 700.00</b>
<b>Future</b>											
Nov 2018	DAEU	Future	37	15.8953	16.1146	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>
<b>Option</b>											
Aug 2019	DAEU	17.01 Put	31,200	1106.4007	974.3331	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	314.7793	357.6316	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>
		<b>Total</b>	<b>93,637</b>					<b>0.00</b>	<b>0.00</b>	<b>2 191 986.00</b>	<b>11 967 156 360.40</b>
<b>Future</b>											
Nov 2018	DAGB	Future	13	17.8272	18.1378	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	23	18.0055	18.3349	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>
		<b>Total</b>	<b>36</b>					<b>0.00</b>	<b>0.00</b>	<b>261 290.00</b>	<b>889 500 016.60</b>
<b>Future</b>											
Nov 2018	DAUS	Future	179	13.9295	14.1189	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	368	13.9360	14.1238	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	13.9382	14.1255	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	1,917	13.9396	14.1272	0.0000	0.0000	200	2,814,800.00		
Dec 2018	DAUS	Future	500	13.9497	14.1391	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	13.9569	14.1475	0.0000	0.0000	117	1,642,188.60		
Dec 2018	DAUS	Future	3,405	13.9847	14.1797	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.9879	14.1831	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	150	14.0086	14.2051	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	8	14.0101	14.2068	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	51	14.0244	14.0260	0.0000	0.0000	51	715,326.00		
Jan 2019	DAUS	Future	55	14.0331	14.2307	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,838	14.0350	14.2325	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.0603	14.2548	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.0641	14.2583	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.0836	14.0755	0.0000	0.0000	15	211,132.50		
Feb 2019	DAUS	Future	5,841	14.0888	14.2807	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.0970	14.2894	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.1330	14.3275	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,753	14.1362	14.3310	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.1428	14.3379	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.1886	14.3865	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.2398	14.4403	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.2944	14.4947	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.3490	14.5490	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.4056	14.6056	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.4593	14.6595	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.5112	14.7116	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.5692	14.7704	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.6283	14.8314	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.6835	14.8885	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.7426	14.9496	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.8016	15.0106	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.8531	15.0638	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.9179	15.1308	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.0246	15.2411	0.0000	0.0000	0	0.00		
			<u>113,205</u>					<u>383.00</u>	<u>5,383,447.10</u>	<u>10 881 103.00</u>	<u>133 525 076 642.20</u>
<b>Option</b>											
Nov 2018	DAUS	13.67 Put	20,000	12.6650	7.8879	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	20,000	332.4289	181.5919	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.76 Call	4,000	4.8944	11.0301	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.00 Put	500	2.1742	1.7282	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.80 Put	1,000	94.3420	49.8775	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.85 Put	600	113.0501	61.5988	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.08 Call	500	97.0154	189.8455	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	421	363.4179	237.6365	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.30 Call	600	43.9137	98.3879	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.80 Call	600	6.6678	17.0847	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.82 Call	250	6.2870	15.8343	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	0.0442	0.1272	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	0.1107	0.0085	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.45 Put	23,000	1506.1297	1320.4353	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	13.75 Put	65,000	106.3289	59.2027	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	171.4742	103.2370	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	434.1756	307.4879	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	967.5470	795.2773	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1356.8317	1173.6079	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	125	113.4015	65.4872	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	156.2762	250.6194	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	54.3801	97.5210	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	98.6249	58.1690	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	180.5559	115.1652	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	16.6271	33.2345	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	3.8655	7.7518	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	244.6780	170.0596	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	286.8226	0.0000	0.0000	0.0000	36,000	0.00
Dec 2018	DAUS	14.30 Put	35,000	495.0502	373.0954	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	989.2454	826.3076	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1359.7855	1182.5144	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	39.1961	25.6515	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	53.0940	34.2951	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	92.2558	135.5329	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	78.9031	117.0643	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	29.4946	16.9878	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	228.8984	161.4732	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	230.6595	313.1353	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	486.3898	371.1863	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	1053.7019	892.3836	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	2.7641	3.9464	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	2.3571	2.6680	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	181.2316	126.4821	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	293.9924	389.2281	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	146.9860	199.9245	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	17.3296	13.9981	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	66.2797	46.2545	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	525.3493	420.8283	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	557.5258	448.4168	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	299.9938	379.4544	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	138.4780	179.1683	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	97.8507	127.2986	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	101.1947	76.5350	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	576.9255	479.7570	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	608.1028	507.1940	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	357.3001	432.3385	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	15.27 Call	250	192.7642	235.7594	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	143.8481	177.3430	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	508.8008	423.8852	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	135.1967	105.3159	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	626.6355	530.3184	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	657.1913	557.7459	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	404.2147	478.0039	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	239.9440	285.1791	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	187.2561	225.2923	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	168.8397	134.8384	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1017.3711	1160.2505	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	670.1612	574.4195	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	700.1784	601.7464	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	444.3847	517.1048	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	282.6726	329.5613	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	228.5371	269.7307	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	199.8282	162.5317	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	708.6337	612.7813	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	738.1170	640.0385	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	479.7214	551.0385	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	319.3140	368.5125	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	263.3281	305.7442	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1060.4458	944.1158	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	184.3064	210.2788	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	225.3410	185.7180	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	739.4308	644.1515	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	768.7630	671.3873	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	510.2941	579.0374	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	350.5042	400.4560	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	294.8883	337.2868	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	376.6410	319.5559	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	287.7158	328.4398	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	253.0803	209.2915	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	770.9237	676.8108	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	800.0691	703.9431	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	547.2232	613.9267	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	387.1657	436.7264	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	331.7633	374.4247	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	949.6584	846.9241	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	377.5072	424.9203	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	276.7837	227.8516	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	796.3453	704.0469	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	14.25 Put	250	825.3327	731.1094	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	572.3612	637.8546	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	413.8227	463.6550	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	358.0844	401.4281	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	182.5398	215.2961	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	299.1919	244.4477	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	819.3188	727.6852	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	848.1251	754.6537	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	602.5065	666.7702	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	444.2266	493.4908	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	386.3097	429.1035	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	317.8395	262.0497	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	841.5126	750.4712	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	870.1404	777.3509	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	625.5013	688.2676	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	469.6064	518.1222	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	413.1164	455.5852	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	333.4744	277.7312	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	861.5909	770.7647	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	890.0624	797.5765	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	651.0779	713.2292	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	496.6554	544.9935	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	441.0703	483.6110	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	350.5011	296.7581	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	883.2546	791.9673	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	911.6204	818.6756	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	681.4569	744.1610	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	530.8681	579.3004	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	475.9872	518.6628	0.0000	0.0000	0	0.00		
			<u>718,153</u>					<u>36,000.00</u>	<u>0.00</u>	<u>21 917 883.00</u>	<u>0.00</u>
<b>Total</b>			<b>831,358</b>					<b>36,383.00</b>	<b>5,383,447.10</b>	<b>32 798 986.00</b>	<b>133 525 076 642.20</b>
<b>Future</b>	Dec 2018	EUUS	Future 50	1.1415	1.1419	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>
<b>Total</b>			<b>50</b>					<b>0.00</b>	<b>0.00</b>	<b>744 705.00</b>	<b>8 448 109 050.00</b>
<b>Future</b>	Dec 2018	GBUS	Future 250	1.2796	1.2847	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>
<b>Total</b>			<b>250</b>					<b>0.00</b>	<b>0.00</b>	<b>170 231.00</b>	<b>2 190 547 280.00</b>

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<b>Future</b>										
Dec 2018	ZAAD	Future	23,926	10.1413	10.2684	0.0000	0.0000	0	0.00	
Mar 2019	ZAAD	Future	324	10.2713	10.3998	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	4,934	10.3941	10.5274	0.0000	0.0000	0	0.00	
			<u>29,184</u>					<u>0.00</u>	<u>0.00</u>	<u>3 765 729.00</u>
	<b>Total</b>		<b>29,184</b>					<b>0.00</b>	<b>0.00</b>	<b>3 798 106.00</b>
<b>Future</b>										
Dec 2018	ZACA	Future	700	10.5094	10.6936	10.5817	10.5211	200	2,110,280.00	
Mar 2019	ZACA	Future	250	10.6494	10.8361	10.7170	10.6566	1,150	12,281,345.00	
Sep 2019	ZACA	Future	250	10.7896	10.9823	0.0000	0.0000	0	0.00	
			<u>1,200</u>					<u>1,350.00</u>	<u>14,391,625.00</u>	<u>140 963.00</u>
	<b>Total</b>		<b>1,200</b>					<b>1,350.00</b>	<b>14,391,625.00</b>	<b>140 963.00</b>
<b>Future</b>										
Dec 2018	ZADK	Future	140	2.1415	2.1713	0.0000	0.0000	0	0.00	
			<u>140</u>					<u>0.00</u>	<u>0.00</u>	<u>12 435.00</u>
	<b>Total</b>		<b>140</b>					<b>0.00</b>	<b>0.00</b>	<b>12 435.00</b>
<b>Future</b>										
Dec 2018	ZAEU	Future	129,327	15.9349	16.1589	16.0893	15.9500	2,555	40,888,977.40	
Mar 2019	ZAEU	Future	36,518	16.2561	16.4868	16.3584	16.2865	1,014	16,549,945.80	
Jun 2019	ZAEU	Future	4,675	16.5503	16.7941	16.6664	16.6664	5	83,332.00	
Sep 2019	ZAEU	Future	9,050	16.8900	17.1332	0.0000	0.0000	0	0.00	
			<u>179,570</u>					<u>3,574.00</u>	<u>57,522,255.20</u>	<u>15 676 452.00</u>
	<b>Total</b>							<b>3,574.00</b>	<b>57,522,255.20</b>	<b>15 676 452.00</b>
<b>Option</b>										
Mar 2019	ZAEU	15.60 Put	462	281.6345	215.3295	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	16.00 Call	650	711.2446	848.0208	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	17.33 Put	462	1349.4471	1180.0122	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	19.65 Call	462	53.4352	69.2417	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	547.6641	614.8546	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	92.1097	81.5679	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	643.1792	560.7038	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	450.3522	496.0045	0.0000	0.0000	0	0.00	
			<u>108,486</u>					<u>0.00</u>	<u>0.00</u>	<u>10 956 414.00</u>
	<b>Total</b>		<b>288,056</b>					<b>3,574.00</b>	<b>57,522,255.20</b>	<b>26 632 866.00</b>
<b>Future</b>										
Dec 2018	ZAFR	Future	1,366	14.0549	14.2705	14.1709	14.0809	250	3,532,834.60	
Jun 2019	ZAFR	Future	150	14.6282	14.8624	0.0000	0.0000	0	0.00	
			<u>1,516</u>					<u>250.00</u>	<u>3,532,834.60</u>	<u>621 158.00</u>
	<b>Total</b>							<b>250.00</b>	<b>3,532,834.60</b>	<b>621 158.00</b>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
<b>Total</b>			<b>1,516</b>					<b>250.00</b>	<b>3,532,834.60</b>	621 158.00	6 676 179 862.80
<b>Future</b>											
Dec 2018	ZAGB	Future	448,779	17.8634	18.1792	18.0469	17.8648	271	4,858,880.70		
Mar 2019	ZAGB	Future	11,340	18.1549	18.4771	18.3200	18.2600	120	2,195,825.00		
Jun 2019	ZAGB	Future	5,301	18.4226	18.7568	18.5190	18.5173	520	9,629,360.00		
Sep 2019	ZAGB	Future	9,915	18.7277	19.0627	18.8100	18.7854	485	9,112,762.00		
			<b>475,335</b>					<b>1,396.00</b>	<b>25,796,827.70</b>	<b>12 900 765.00</b>	<b>219 635 257 801.70</b>
<b>Option</b>											
Dec 2018	ZAGB	19.30 Call	200	23.1878	49.2543	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	623.5354	496.9609	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1380.3103	1162.9769	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	194.4915	257.6669	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	170.3764	227.3266	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	66.8596	91.7325	0.0000	0.0000	0	0.00		
			<b>4,200</b>					<b>0.00</b>	<b>0.00</b>	<b>1 779 113.00</b>	<b>0.00</b>
<b>Total</b>			<b>479,535</b>					<b>1,396.00</b>	<b>25,796,827.70</b>	<b>14 679 878.00</b>	<b>219 635 257 801.70</b>
<b>Future</b>											
Dec 2018	ZAJY	Future	6,905	0.1237	0.1261	0.0000	0.0000	0	0.00		
			<b>6,905</b>					<b>0.00</b>	<b>0.00</b>	<b>1 021 902.00</b>	<b>11 470 576 312.50</b>
<b>Total</b>			<b>6,905</b>					<b>0.00</b>	<b>0.00</b>	<b>1 021 902.00</b>	<b>11 470 576 312.50</b>
<b>Future</b>											
Jun 2019	ZAKS	Future	2,166	0.1353	0.1361	0.0000	0.0000	0	0.00		
			<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	<b>38 066.00</b>	<b>515 662 000.00</b>
<b>Total</b>			<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	<b>38 066.00</b>	<b>515 662 000.00</b>
<b>Future</b>											
Dec 2018	ZAUM	Future	439	13.9597	14.1509	14.0516	14.0384	20	28,088,350.00		
Mar 2019	ZAUM	Future	10	14.1182	14.3119	14.2195	14.2067	10	14,213,100.00		
			<b>449</b>					<b>30.00</b>	<b>42,301,450.00</b>	<b>153 946.00</b>	<b>178 199 797 080.00</b>
<b>Total</b>			<b>449</b>					<b>30.00</b>	<b>42,301,450.00</b>	<b>158 469.00</b>	<b>178 199 797 080.00</b>
<b>Future</b>											
Dec 2018	ZAUS	Future	790,134	13.9597	14.1509	14.1016	13.9371	59,389	831,778,224.70		
Mar 2019	ZAUS	Future	59,194	14.1182	14.3119	14.2360	14.1135	1,765	25,081,461.50		
Jun 2019	ZAUS	Future	18,716	14.2644	14.4649	14.3625	14.3625	120	1,723,500.00		
Sep 2019	ZAUS	Future	14,099	14.4307	14.6307	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	Future	9,600	14.5902	14.7920	0.0000	0.0000	500	7,078,500.00		
Mar 2020	ZAUS	Future	3,966	14.7693	14.9772	0.0000	0.0000	0	0.00		

DATE	CONTRACT	OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
		895,709					61,774.00	865,661,686.20
								189 705 189.00
								2 277 107 916 676.50
Option								
Dec 2018	ZAUS	11.64 Put	2,764	0.2467	0.1659	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.3581	0.2378	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.5920	0.3867	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.8248	0.5333	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.8810	0.5686	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	1.1456	0.7339	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	1.5863	1.0076	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	1.8644	1.1795	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	2.8261	1.7712	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1463.8267	1653.4674	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	4.1267	2.5674	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	5.8797	3.8204	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	6.6606	4.4451	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	7.9393	5.4872	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	13.1942	9.3756	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	974.7009	1161.6169	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	15.0009	10.7169	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	17.0631	12.2484	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	19.4169	13.9963	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	784.8729	969.1633	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	26.5191	19.2592	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	738.3889	921.7535	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	28.6889	20.8535	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	38.0875	25.0932	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	39.6010	25.7635	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	571.1930	736.2174	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	61.4930	35.3174	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	532.5212	693.5039	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	72.8212	42.6039	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	99.7845	60.5143	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	125.7542	78.4000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	132.8826	83.4042	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	151.8376	96.8928	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	168.1798	108.7195	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	332.1305	462.7224	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	172.4305	111.8224	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	218.5499	146.1838	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	253.7627	366.5803	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	232.1021	337.6463	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	272.4021	186.7463	0.0000	0	0.00



<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Dec 2018	ZAUS	14.10 Put	1,867	333.6884	233.6020	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	346.6464	243.7249	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	182.9101	269.7802	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	235,564	366.5013	259.3746	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	373.2289	264.9676	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	160.3665	238.8437	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	400.6665	287.9437	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	428.9197	311.8718	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	145.8067	218.8983	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	472.7486	349.4819	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	124.9777	189.9298	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	495.2777	369.0298	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	120.2136	183.2278	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	510.5136	382.3278	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	541.4854	409.5421	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	109.0280	167.3719	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	100.7864	155.5742	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	89.5147	139.2730	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	629.8147	488.3730	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	638.0566	495.8111	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	73.3489	115.5280	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	713.6489	564.6280	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	71.8957	113.3711	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	70.4713	111.2528	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	773.9114	620.3022	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	59.6841	95.5892	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	835.1012	677.6619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	53.6403	86.8829	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	843.9403	685.9829	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	48.1772	78.9376	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	888.4772	728.0376	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	46.1430	75.9588	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	44.1914	73.0887	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	43.2450	71.6928	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	979.0972	813.9222	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	31.1842	52.8966	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	1071.4842	901.9966	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	30.5083	51.8259	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	25.5876	43.9773	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	25.0298	43.0805	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	22.4153	38.8557	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	20.0699	35.0338	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.20 Put	50	1260.3699	1084.1338	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1308.2672	1130.6792	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1356.3831	1177.5589	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	13.7975	24.5947	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	11.4090	20.3802	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	10.9386	19.5463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	10.4882	18.7460	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1550.7882	1367.8460	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	10.2704	18.3582	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	8.6870	15.5533	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	8.5078	15.2372	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	8.3325	14.9276	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	6.9134	12.4126	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	6.4986	11.6742	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1885.4877	1698.4307	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	5.0832	9.1433	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	4.5011	8.0969	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	3.7568	6.7545	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	3.0203	5.4218	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	2.8475	5.1083	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	2.5327	4.5368	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	2.3437	4.1935	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	1.2816	2.2624	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.9187	1.4472	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.9606	1.0093	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.2891	2.1380	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	16.3136	13.2833	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	50.1051	41.0149	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	53.1254	43.4990	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	102.1409	77.9704	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	105.8828	80.9843	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	121.8481	93.9112	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	132.6624	102.7278	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	148.9179	116.0625	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	156.2931	122.1448	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	182.7052	144.0599	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	205.9094	163.4823	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	215.0959	171.2136	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	227.7645	181.9069	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	249.0849	198.7880	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	550	263.9606	210.6088	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	283.2878	226.0391	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	13.60 Put	9,570	303.4335	242.2134	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	337.3565	271.5359	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	346.1595	279.1836	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	355.0942	286.9587	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	368.7340	298.8615	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	387.3685	315.1781	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	416.2690	340.6026	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	421.1968	344.9516	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	441.2164	362.6594	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	17,406	493.4167	409.1134	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	515.1438	428.5576	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	608.0368	511.1768	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	657.5780	555.3131	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	488.4323	578.5312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	702.3280	596.0324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	748.3412	638.3555	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	761.7115	650.6872	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	768.4334	656.8962	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	426.9442	507.5747	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	420.6074	500.2251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	802.4074	688.3251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	823.0740	707.4951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	843.9490	726.8901	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	907.7892	786.4111	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	973.3684	847.8549	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1025.5279	896.9108	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1033.0696	904.0080	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1040.6304	911.1236	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1048.2103	918.2636	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	200	290.1677	347.1688	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1203.5992	1065.3811	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1251.5313	1111.1016	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1267.6364	1126.4873	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1275.7107	1134.2065	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	256.3617	307.1534	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1324.4749	1180.8775	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1332.6535	1188.7160	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	247.2564	296.3428	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1431.8990	1284.0300	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	209.7461	251.6526	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	208.2659	249.8853	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	202.4647	242.9494	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	15.52 Call	1	199.4525	239.5630	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	196.4855	236.2262	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	179.6423	217.2724	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	160.7356	195.4051	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	158.3818	192.5704	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	151.5423	184.3308	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	141.8800	172.6694	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	139.8258	170.1863	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	127.2482	154.9646	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	112.6533	137.2565	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	106.4412	129.7018	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	92.5350	112.7605	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	91.2619	111.2063	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	71.9634	86.9987	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	71.5702	86.4173	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	69.6472	83.5782	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	67.4344	80.3131	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	67.0752	79.7829	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	66.7186	79.2567	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	62.3152	73.4851	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	60.1138	70.8349	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	54.4055	63.9667	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	43.2092	50.5108	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	35.7240	42.6024	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.8177	7.1319	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	76.3508	59.5316	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	153.3698	124.2038	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	207.4878	169.8597	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	212.8035	174.3196	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	283.7707	236.0373	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	524.8670	445.8515	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	550.0061	468.7030	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	886.4807	1001.1352	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	702.5740	798.0694	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	645.7531	734.7155	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	994.5939	881.0778	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	569.3924	649.1526	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,000	493.0161	562.3984	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	380.9266	434.9226	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	348.1225	398.9107	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	327.4050	376.6092	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	314.3655	361.7292	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	17.96 Call	8,203	139.7054	155.3970	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	13.4348	12.9344	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	143.1120	110.0022	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	650.4173	569.6688	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	681.7662	598.6638	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	746.6084	658.8673	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	774.4493	684.8060	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	814.2319	721.9419	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	884.5468	787.7958	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	1128.3429	1019.4406	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1592.4276	1463.0005	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1729.0162	1594.8451	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	533.0690	591.5340	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	320.3421	357.0193	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	284.1389	310.5759	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	269.3210	293.8617	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	264.0447	287.9088	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	242.5512	263.6556	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	233.0462	252.9259	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	225.2109	244.0805	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	223.3386	241.9649	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	171.2858	198.0760	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	67.8679	51.5975	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	597.7069	530.8541	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	451.0465	493.2914	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	221.3650	250.7283	0.0000	0.0000	0	0.00		
			<u>8,165,460</u>					<u>0.00</u>	<u>0.00</u>	<u>61 543 549.00</u>	<u>0.00</u>
	<b>Total</b>		<b>9,061,169</b>					<b>61,774.00</b>	<b>865,661,686.20</b>	<b>251 248 738.00</b>	<b>2 277 107 916 676.50</b>
	<b>Grand Total</b>		<b>10,805,651</b>					<b>104,757.00</b>	<b>1 014 590 125.80</b>	<b>343,828,296</b>	<b>3,156,513,033,512.43</b>