



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 03-January-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Jan 2019	DAEU	Future	4,830	16.4963	16.4731	0.0000	0.0000	0	0.00
Feb 2019	DAEU	Future	29	16.6067	16.6049	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.6597	16.6582	0.0000	0.0000	0	0.00
			<u>4,912</u>					<u>0.00</u>	<u>0.00</u>
									<u>811 215.00</u>
									<u>12 127 077 435.00</u>
Option									
Aug 2019	DAEU	17.01 Put	16,200	820.5703	825.9951	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	330.4685	335.8621	0.0000	0.0000	0	0.00
			<u>78,600</u>					<u>0.00</u>	<u>0.00</u>
									<u>1 510 587.00</u>
									<u>0.00</u>
		Total	83,512					0.00	0.00
									2 321 802.00
									12 127 077 435.00
Future									
Jan 2019	DAGB	Future	4,112	18.2546	18.2655	0.0000	0.0000	0	0.00
Jan 2019	DAGB	Future	27	18.2727	18.2973	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.3520	18.3868	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.4433	18.4791	0.0000	0.0000	0	0.00
			<u>4,266</u>					<u>0.00</u>	<u>0.00</u>
									<u>62 358.00</u>
									<u>1 041 064 928.30</u>
		Total	4,266					0.00	0.00
									269 671.00
									1 041 064 928.30
Future									
Jan 2019	DAUS	Future	125	14.4732	14.4562	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	174	14.4950	14.4647	0.0000	0.0000	150	2,177,850.00
Jan 2019	DAUS	Future	20	14.4958	14.4665	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	0	14.4966	14.4684	0.0000	0.0000	126	1,832,418.00
Jan 2019	DAUS	Future	1,901	14.4996	14.4759	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	51	14.5027	14.4833	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,018	14.5066	14.4926	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	2,602	14.5074	14.4945	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	14.5234	14.5179	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	6	14.5269	14.5215	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	15	14.5446	14.5392	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>		
Feb 2019	DAUS	Future	6,098	14.5499	14.5445	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.5570	14.5516	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.5588	14.5534	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.5979	14.5930	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	5,111	14.6015	14.5966	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.6086	14.6038	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.6598	14.6554	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.7169	14.7126	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.7243	14.7200	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.7685	14.7642	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.7740	14.7698	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.8324	14.8285	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.8930	14.8893	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.8968	14.8931	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.9498	14.9463	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0059	15.0028	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.0681	15.0654	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	15.0720	15.0693	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1283	15.1259	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1890	15.1866	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.2549	15.2521	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3208	15.3176	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3781	15.3747	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.4504	15.4465	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.5694	15.5649	0.0000	0.0000	0	0.00		
			<u>110,220</u>					<u>276.00</u>	<u>4,010,268.00</u>	<u>11 024 322.00</u>	<u>135 539 860 340.00</u>
Option											
Jan 2019	DAUS	13.64 Put	250	1.9280	2.3086	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.12 Call	250	368.4420	363.1321	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.65 Call	250	55.4197	59.8846	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.86 Put	174	13.6008	19.4087	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.00 Call	174	525.0083	503.6540	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.29 Put	218	104.2243	119.9882	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.36 Call	218	267.1111	254.0205	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	12.66 Put	263	0.7838	0.8879	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.00 Put	500	5.4343	4.7387	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.20 Put	250	159.2112	169.2709	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.25 Put	250	178.2374	188.7388	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.38 Call	500	361.5729	360.1973	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	15.13 Call	250	110.7813	112.2934	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	15.47 Call	250	61.1974	63.3063	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	13.00 Put	500	18.8278	20.5478	0.0000	0.0000	0	0.00		

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Feb 2019	DAUS	14.20 Put	250	252.7828	257.5804	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	273.6821	278.5979	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	433.7025	433.7237	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	193.8334	194.4340	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	129.1794	129.9912	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	184.3910	187.9302	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	261.8096	262.4046	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	197.8604	200.8196	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	238.5262	241.7035	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	44.3413	45.5136	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	322.2826	325.6789	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	344.1053	347.5670	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	492.1555	491.1874	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	259.5154	259.3155	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	191.0850	191.2265	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	180.0322	182.5588	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	669.0812	667.7330	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	69.8655	70.7587	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1317.0697	1314.8956	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	379.5283	382.6300	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	401.9539	405.1089	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	541.0705	540.3559	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	316.8131	316.6844	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	249.2251	249.3367	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	93.7788	94.2341	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	426.7770	429.8808	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	449.5602	452.7138	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	581.0656	580.4678	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	364.3715	364.1559	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	295.6330	295.5870	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	720.9291	724.5084	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	190.3149	190.4702	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	113.0640	113.0756	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	463.5797	466.7963	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	486.5608	489.8275	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	610.6126	610.1209	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	400.4070	400.1006	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	331.8134	331.5885	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	209.3389	211.4653	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	321.7913	321.2445	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	129.0685	128.4318	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	499.1257	502.1023	0.0000	0.0000	0	0.00

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Jul 2019	DAUS	14.25 Put	250	522.3742	525.4100	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	649.1135	649.0363	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	444.2817	444.3617	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.50 Call	250	375.3424	375.5135	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,147	649.3831	652.6675	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,147	432.8965	433.0891	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	143.7943	142.7634	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.20 Put	250	527.8614	530.8687	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	551.2653	554.3274	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	674.0891	674.2680	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	475.7553	476.0699	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	405.1719	405.6148	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	186.5615	187.7457	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	154.5716	157.3631	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	553.9895	555.9526	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	577.4764	579.4800	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	704.6548	703.9558	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	509.6332	509.2050	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	435.9807	435.7531	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	169.9935	174.0009	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	580.0989	581.9743	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	602.2699	604.1725	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	727.9199	727.6267	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	536.5755	536.5332	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	465.2361	465.3558	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	184.4619	187.4427	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	602.1107	603.9444	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	624.3796	626.2206	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	753.1888	753.2438	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	563.7563	564.0636	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	493.9514	494.4235	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	198.2761	200.5066	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	623.5252	625.2501	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	645.8675	647.5951	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	777.9434	778.2005	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	593.2332	593.7554	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	524.8943	525.5529	0.0000	0.0000	0	0.00		
			<u>327,791</u>					<u>0.00</u>	<u>0.00</u>	<u>22 142 853.00</u>	<u>0.00</u>
		Total	438,011					276.00	4,010,268.00	33 167 175.00	135 539 860 340.00

Future

Mar 2019	EUUS	Future	25	1.1432	1.1435	1.1449	1.1449	5	57,245.00
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	Jun 2019	EUUS	Future	582	1.1519	1.1522	0.0000	0.0000	0	0.00	
				607					5.00	57,245.00	745 382.00
			Total	607					5.00	57,245.00	745 382.00
Future											8 455 941 735.00
	Mar 2019	GBUS	Future	400	1.2624	1.2653	0.0000	0.0000	0	0.00	
				400					0.00	0.00	171 207.00
			Total	400					0.00	0.00	171 207.00
Future											2 202 856 108.00
	Mar 2019	ZAAD	Future	7,364	10.2038	10.2062	0.0000	0.0000	0	0.00	
	Jun 2019	ZAAD	Future	15,741	10.3301	10.3340	0.0000	0.0000	0	0.00	
	Sep 2019	ZAAD	Future	650	10.4693	10.4748	0.0000	0.0000	0	0.00	
	Dec 2019	ZAAD	Future	400	10.6031	10.6108	0.0000	0.0000	0	0.00	
				24,155					0.00	0.00	3 845 327.00
Option											33 686 670 846.70
	Dec 2019	ZAAD	11.00 Call	1,000	436.1295	445.8988	0.0000	0.0000	0	0.00	
				1,000					0.00	0.00	34 377.00
			Total	25,155					0.00	0.00	3 879 704.00
Future											33 686 670 846.70
	Mar 2019	ZACA	Future	2,100	10.8049	10.7137	0.0000	0.0000	0	0.00	
	Jun 2019	ZACA	Future	650	10.9438	10.8518	0.0000	0.0000	0	0.00	
	Sep 2019	ZACA	Future	250	11.0934	11.0008	0.0000	0.0000	0	0.00	
				3,000					0.00	0.00	146 913.00
			Total	3,000					0.00	0.00	146 913.00
Future											1 455 056 745.10
	Mar 2019	ZAEU	Future	123,883	16.6696	16.6684	16.7812	16.6513	331	5,523,948.20	
	Jun 2019	ZAEU	Future	24,150	16.9816	16.9816	0.0000	0.0000	0	0.00	
	Sep 2019	ZAEU	Future	10,458	17.3244	17.3260	17.3025	17.3025	1	17,302.50	
	Dec 2019	ZAEU	Future	277	17.6510	17.6557	0.0000	0.0000	0	0.00	
				158,768					332.00	5,541,250.70	16 032 952.00
Option											231 395 414 332.40
	Mar 2019	ZAEU	16.00 Call	650	884.1282	890.6303	0.0000	0.0000	0	0.00	
	Sep 2019	ZAEU	18.60 Call	55,000	608.4406	614.4623	0.0000	0.0000	0	0.00	
	Dec 2019	ZAEU	13.73 Put	17,150	59.0757	58.8212	0.0000	0.0000	0	0.00	
	Dec 2019	ZAEU	16.15 Put	17,150	461.5054	462.5990	0.0000	0.0000	0	0.00	
	Dec 2019	ZAEU	20.62 Call	17,150	478.3048	485.4218	0.0000	0.0000	0	0.00	
				107,100					0.00	0.00	10 956 876.00
			Total	265,868					332.00	5,541,250.70	26 989 828.00
Option											231 395 414 332.40

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Future									
Mar 2019	ZAFR	Future	1,043	14.8383	14.8485	0.0000	0.0000	0	0.00
Jun 2019	ZAFR	Future	150	15.1302	15.1414	0.0000	0.0000	0	0.00
			<u>1,193</u>					<u>0.00</u>	<u>0.00</u>
		Total	1,193					0.00	0.00
									626 130.00 6 748 085 054.60
Future									
Mar 2019	ZAGB	Future	397,083	18.4086	18.4440	18.3825	18.3825	638	11,743,259.30
Jun 2019	ZAGB	Future	5,764	18.6898	18.7266	0.0000	0.0000	0	0.00
Sep 2019	ZAGB	Future	16,150	18.9950	19.0334	0.0000	0.0000	0	0.00
Dec 2019	ZAGB	Future	247	19.2850	19.3265	0.0000	0.0000	0	0.00
			<u>419,244</u>					<u>638.00</u>	<u>11,743,259.30</u>
									13 787 709.00 235 716 320 412.50
Option									
Mar 2019	ZAGB	18.00 Put	500	393.3474	385.0825	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	19.00 Call	2,500	360.5915	377.8348	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	19.19 Put	1,000	1087.9092	1068.1568	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	20.00 Call	500	150.0768	160.0780	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	20.18 Call	1,500	127.5428	136.5635	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	21.44 Call	500	36.4488	36.9817	0.0000	0.0000	0	0.00
			<u>6,500</u>					<u>0.00</u>	<u>0.00</u>
		Total	425,744					638.00	11,743,259.30
									15 570 822.00 235 716 320 412.50
Future									
Jun 2019	ZAKS	Future	2,166	0.1409	0.1410	0.0000	0.0000	0	0.00
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>
		Total	2,166					0.00	0.00
									38 066.00 515 662 000.00
Future									
Mar 2019	ZATR	Future	19,000	2.5509	2.6047	0.0000	0.0000	5,000	12,857,500.00
			<u>19,000</u>					<u>5,000.00</u>	<u>12,857,500.00</u>
		Total	19,000					5,000.00	12,857,500.00
									414 239.00 1 305 945 069.00
Future									
Mar 2019	ZAUM	Future	422	14.5819	14.5768	0.0000	0.0000	33	48,229,500.00
			<u>422</u>					<u>33.00</u>	<u>48,229,500.00</u>
		Total	422					33.00	48,229,500.00
									159 851.00 180 181 431 760.00
Future									
Mar 2019	ZAUS	Future	495,226	14.5819	14.5768	14.6850	14.5501	39,230	572,788,428.60
Jun 2019	ZAUS	Future	112,532	14.7427	14.7384	14.8400	14.7400	400	5,916,000.00
Sep 2019	ZAUS	Future	14,250	14.9195	14.9159	0.0000	0.0000	0	0.00

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Dec 2019	ZAUS	Future	9,900	15.0894	15.0869	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	Future	4,566	15.2846	15.2817	0.0000	0.0000	0	0.00
			<u>636,474</u>					<u>39,630.00</u>	<u>578,704,428.60</u>
									<u>193 404 173.00</u>
									<u>2 329 557 289 370.10</u>
Option									
Mar 2019	ZAUS	10.33 Put	1,000	0.3966	0.3632	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	5.6246	5.1999	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	16.1804	16.0913	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	17.1430	17.1055	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	8,132	26.0657	26.5824	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	30.1169	30.9155	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	30.9995	31.8612	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	34.7966	35.9349	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	37.4019	38.7334	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	41.3791	43.0111	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	43.2103	44.9813	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	225,407	54.1910	56.1732	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	64.4532	66.6028	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	68.6637	70.8754	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	84.2260	86.6397	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	91.1425	93.6342	0.0000	0.0000	1,000	0.00
Mar 2019	ZAUS	13.55 Put	10,000	100.3704	102.9601	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	110.2726	112.9539	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	114.4276	117.1456	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	127.5743	130.3971	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	132.1897	135.0450	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	136.9238	139.8127	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	144.2491	147.1862	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	154.4427	157.4430	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.82 Put	1,800	162.4140	165.4588	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	170.6771	173.7647	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	173.6758	176.7892	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	186.0117	189.2252	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	801.1991	799.5539	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	35,606	219.2991	222.7539	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	233.6024	237.1507	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	678.4294	677.2289	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	649.9723	648.8713	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	331.4264	335.4835	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	622.4060	621.4027	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	340.5060	344.6027	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	363.8256	368.0133	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	408.0109	412.3551	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.45 Put	1,000	413.0927	417.4540	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	540.1116	539.3898	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	530.4499	529.7588	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	520.9250	520.2665	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	439.0250	443.4665	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	454.9940	459.4805	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	471.2663	475.7959	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	522.6826	527.3558	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	577.3648	582.1845	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	397.1163	396.9230	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	621.6303	626.5487	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	628.0740	633.0065	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	634.5471	639.4935	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	641.0470	646.0098	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	330.8308	330.8854	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	776.9826	782.1798	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	819.8307	825.0848	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	834.3098	839.5850	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	841.5871	846.8713	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	282.8356	283.0523	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	885.7511	891.0843	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	893.1911	898.5348	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	270.0446	270.3016	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	262.6436	262.9232	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	984.2368	989.6623	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	228.4136	228.8134	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	217.9415	218.3906	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	215.9047	216.3651	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	207.9424	208.4416	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	204.0724	204.5881	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	200.2743	200.8079	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	178.9273	179.5536	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	155.4449	156.1617	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	152.5612	153.2888	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	144.2336	144.9909	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	130.1675	130.9653	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	114.8713	115.8149	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	109.3727	110.3890	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	97.2312	98.4012	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	89.9021	91.1599	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	73.9475	75.3675	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	72.5205	73.9530	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	16.96 Call	12,600	51.1892	52.7556	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	50.7006	52.2674	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	48.3279	49.9014	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	45.6337	47.2117	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	45.2008	46.7781	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	44.7713	46.3497	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	39.5709	41.1457	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	37.0400	38.6072	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	30.7152	32.2441	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	18.7376	17.6772	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	12.7227	10.7724	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	5.2296	4.6386	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	32.8727	31.2404	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	71.7501	70.8727	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	100.8003	100.8556	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	103.6985	103.8553	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	143.6451	145.2765	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	299.9906	302.7604	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	317.0188	319.8495	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1115.5893	1114.2307	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	360.3552	363.3173	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	389.0173	392.0555	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	445.6222	448.8000	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	873.8458	872.9240	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	798.0284	797.2258	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	662.8721	666.4049	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	674.0553	677.5969	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	695.7433	695.0933	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	592.9787	592.4613	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	522.9433	522.5019	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	143,900	471.9603	471.5664	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	441.2121	440.8866	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	436.3011	435.9858	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	399.0624	398.8295	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	379.6505	379.4606	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	373.4149	373.2352	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	357.3272	357.1810	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	340.1452	340.0352	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	124.7408	125.3424	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	11.0464	9.5913	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	66.1522	63.2057	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	213.1965	213.3327	0.0000	0.0000	0	0.00

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Sep 2019	ZAUS	13.91 Put	81,930	422.9507	424.6815	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	445.9266	447.6985	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	494.0624	495.9100	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	546.7764	548.7055	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	604.1870	606.2079	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1221.3975	1223.9890	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1345.1204	1347.7668	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	618.8190	617.9694	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	354.5552	354.2628	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	301.5871	301.4430	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	278.1558	278.0759	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	270.4397	270.3994	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	243.3049	243.4939	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	231.3748	231.6676	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	221.5791	221.9606	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	186.6364	187.3286	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	37.4053	38.0389	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	399.0687	400.7257	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	556.1267	557.8254	0.0000	0.0000	1,884	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	596.3850	596.6623	0.0000	0.0000	1,884	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	500.9882	501.5014	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	247.9533	249.3901	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	65.8750	65.1121	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	589.1220	591.0302	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	631.9082	632.3625	0.0000	0.0000	0	0.00		
			<u>4,953,930</u>					<u>4,768.00</u>	<u>0.00</u>	<u>63 906 492.00</u>	<u>0.00</u>
Total			5,590,404					44,398.00	578,704,428.60	257 310 665.00	2 329 557 289 370.10
Grand Total			6,859,748					50,682.00	661 143 451.60	351,776,915	3,236,280,843,219.63