



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 05-February-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Feb 2019	DAEU	Future	29	15.3637	15.3890	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	15.4549	15.4817	0.0000	0.0000	0	0.00
Apr 2019	DAEU	Future	4	15.5089	15.5359	0.0000	0.0000	0	0.00
Apr 2019	DAEU	Future	1	15.5438	15.5707	0.0000	0.0000	0	0.00
			<u>87</u>					<u>0.00</u>	<u>0.00</u>
									<u>816 079.00</u>
									<u>12 203 675 785.40</u>
Option									
Aug 2019	DAEU	19.65 Call	62,400	72.7314	74.3114	0.0000	0.0000	0	0.00
			<u>62,400</u>					<u>0.00</u>	<u>0.00</u>
									<u>1 617 987.00</u>
									<u>0.00</u>
		Total	62,487					0.00	0.00
									2 434 066.00
									12 203 675 785.40
Future									
Feb 2019	DAGB	Future	47	17.4376	17.5688	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	17.5229	17.6561	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	43	17.5735	17.7071	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	120	17.6063	17.7400	0.0000	0.0000	0	0.00
			<u>290</u>					<u>0.00</u>	<u>0.00</u>
									<u>66 850.00</u>
		Total	290					0.00	0.00
									274 163.00
									1 121 162 157.20
Future									
Feb 2019	DAUS	Future	70	13.4094	13.4185	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	6	13.4124	13.4216	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	5,759	13.4319	13.4415	0.0000	0.0000	38	510,267.80
Mar 2019	DAUS	Future	74	13.4379	13.4478	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	80	13.4394	13.4494	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	13.4740	13.4847	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,708	13.4771	13.4879	0.0000	0.0000	1,261	16,973,465.90
Apr 2019	DAUS	Future	55	13.4834	13.4943	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	260	13.5043	13.5152	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	349	13.5222	13.5329	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	15	13.5271	13.5377	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>		
Apr 2019	DAUS	Future	319	13.5287	13.5393	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	264	13.5802	13.5910	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	13.5869	13.5977	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	359	13.6268	13.6381	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	13.6317	13.6431	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	26	13.6819	13.6938	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	13.6835	13.6954	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	65	13.7327	13.7447	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	13.7378	13.7499	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	13.7412	13.7533	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	53	13.7843	13.7977	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	13.7876	13.8011	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	108	13.8383	13.8508	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	13.8927	13.9055	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	13.8960	13.9090	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	13.9459	13.9592	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	13.9987	14.0091	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.0527	14.0638	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.1060	14.1187	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.1525	14.1665	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.2142	14.2278	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.3168	14.3291	0.0000	0.0000	0	0.00		
			<u>101,375</u>					<u>1,299.00</u>	<u>17,483,733.70</u>	<u>11 040 092.00</u>	<u>135 757 482 848.70</u>

Option

Feb 2019	DAUS	13.76 Put	684	373.8551	369.9012	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.81 Call	684	20.7943	24.9346	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.87 Put	22,000	473.2673	467.1007	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.75 Put	25,000	393.8287	395.6848	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	36.3268	38.7577	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	362.7806	362.8743	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	791.8870	786.4706	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	20.3405	24.0489	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	838.4405	832.5489	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	8.5361	10.3576	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	3.9871	4.9182	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	1.1659	1.4630	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	0.5816	0.7315	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.40 Call	50,000	225.9946	0.0000	0.0000	0.0000	50,000	0.00
Mar 2019	DAUS	13.50 Call	50,000	181.2471	0.0000	0.0000	0.0000	50,000	0.00
Mar 2019	DAUS	13.94 Put	27,500	577.5375	574.4511	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	5.9756	6.9594	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	558.5596	555.3599	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	DAUS	14.00 Put	65,000	652.0189	648.0004	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	101.2197	101.1205	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	280.2943	279.6642	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	162.2932	169.8691	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	819.9401	814.8417	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	862.4743	857.0810	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	70.4426	75.0159	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	45.8130	49.1379	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	11.0622	12.1972	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	5.3135	5.9465	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	487.8712	485.1461	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	92.2836	97.3337	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	153.5933	151.5803	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	400.1384	407.8137	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	849.2269	844.5059	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	889.2450	884.4890	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	85.7720	89.3242	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	34.6752	36.6427	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	23.2818	24.7831	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	195.3645	194.4663	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	877.4752	874.4339	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	915.8173	912.6370	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	123.1101	127.8235	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	60.1826	63.0091	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	43.9710	46.1950	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	226.7086	226.8205	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	899.2760	897.2896	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	936.4212	934.2834	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	151.7245	157.3198	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	81.4670	84.8954	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	62.2431	64.9672	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	258.1818	259.2393	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	920.7704	919.6989	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	956.8006	955.5580	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	183.4387	189.9254	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	106.0268	110.2821	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	84.3253	87.8247	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	1134.8114	1133.1212	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	106.5006	110.7946	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	284.1719	285.2039	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	940.0373	939.1104	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	975.2650	974.1898	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	15.52 Call	500	209.5077	216.3941	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	128.3655	132.9894	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	106.2770	110.0832	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	31.2294	32.5042	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	307.5353	308.0361	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	957.1699	955.2401	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	991.7107	989.6319	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	236.7936	243.6558	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	151.7859	156.5252	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	128.9793	133.0046	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	329.5505	330.1261	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	972.5601	970.9123	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	1006.4588	1004.6893	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	259.2999	265.6533	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	174.7776	179.2927	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	152.0322	155.9058	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	348.7679	349.1554	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	985.8069	983.9789	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	1019.1711	1017.2285	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	281.0169	287.3078	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	196.0175	200.5377	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	172.4366	176.3199	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	367.2799	367.6037	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	997.7856	995.7358	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	1030.6218	1028.4629	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	302.7708	309.0256	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	219.7700	224.3400	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	195.3159	199.2624	0.0000	0.0000	0	0.00		
			<u>357,462</u>					<u>100,000.00</u>	<u>0.00</u>	<u>22 588 583.00</u>	<u>0.00</u>
Total			458,837					101,299.00	17,483,733.70	33 628 675.00	135 757 482 848.70
Future											
Mar 2019	EUUS	Future	5	1.1456	1.1467	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1543	1.1554	0.0000	0.0000	0	0.00		
			<u>587</u>					<u>0.00</u>	<u>0.00</u>	<u>745 402.00</u>	<u>8 456 173 900.00</u>
Total			587					0.00	0.00	745 402.00	8 456 173 900.00
Future											
Mar 2019	GBUS	Future	5	1.2994	1.3083	0.0000	0.0000	0	0.00		
			<u>5</u>					<u>0.00</u>	<u>0.00</u>	<u>171 722.00</u>	<u>2 209 540 628.00</u>
Total			5					0.00	0.00	171 722.00	2 209 540 628.00

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Future										
Mar 2019	ZAAD	Future	5,781	9.7476	9.7241	9.7509	9.7509	1	9,750.90	
Jun 2019	ZAAD	Future	15,741	9.8632	9.8399	0.0000	0.0000	0	0.00	
Sep 2019	ZAAD	Future	513	9.9908	9.9681	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.1140	10.0914	0.0000	0.0000	0	0.00	
			<u>22,435</u>					<u>1.00</u>	<u>9,750.90</u>	<u>3 849 139.00</u>
										<u>33 724 510 732.10</u>
Option										
Dec 2019	ZAAD	11.00 Call	1,000	196.1289	194.1707	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>
										<u>0.00</u>
		Total	23,435					1.00	9,750.90	3 883 516.00
										33 724 510 732.10
Future										
Mar 2019	ZACA	Future	500	10.2555	10.2671	0.0000	0.0000	0	0.00	
Jun 2019	ZACA	Future	650	10.3856	10.3976	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	400	10.5248	10.5383	0.0000	0.0000	0	0.00	
			<u>1,550</u>					<u>0.00</u>	<u>0.00</u>	<u>150 363.00</u>
		Total	1,550					0.00	0.00	150 363.00
										1 491 472 790.10
Future										
Mar 2019	ZAEU	Future	140,112	15.4200	15.4463	15.4100	15.3795	4,806	73,185,272.00	
Jun 2019	ZAEU	Future	29,425	15.7025	15.7300	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	Future	21,578	16.0126	16.0419	16.0592	16.0592	322	5,171,062.40	
Dec 2019	ZAEU	Future	17,899	16.3096	16.3401	0.0000	0.0000	0	0.00	
			<u>209,014</u>					<u>5,128.00</u>	<u>78,356,334.40</u>	<u>16 204 332.00</u>
										<u>234 138 196 973.80</u>
Option										
Mar 2019	ZAEU	16.00 Call	650	100.9248	108.1294	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	179.5370	184.5459	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	70.1781	66.3385	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	792.5253	778.5047	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	199.3270	203.7395	0.0000	0.0000	0	0.00	
			<u>107,100</u>					<u>0.00</u>	<u>0.00</u>	<u>10 956 876.00</u>
		Total	316,114					5,128.00	78,356,334.40	27 161 208.00
										234 138 196 973.80
Future										
Mar 2019	ZAFR	Future	1,143	13.5124	13.5331	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	13.7730	13.7945	0.0000	0.0000	0	0.00	
			<u>1,293</u>					<u>0.00</u>	<u>0.00</u>	<u>626 980.00</u>
		Total	1,293					0.00	0.00	626 980.00
										6 760 109 369.60
Future										
Mar 2019	ZAGB	Future	398,013	17.4903	17.6229	17.6211	17.5000	10	175,574.30	

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Jun 2019	ZAGB	Future	5,823	17.7547	17.8897	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	15,609	18.0417	18.1800	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	12,690	18.3134	18.4543	0.0000	0.0000	0	0.00	
			<u>432,135</u>					<u>10.00</u>	<u>175,574.30</u>	<u>13 851 170.00</u>
Option										
Mar 2019	ZAGB	18.00 Put	500	662.1529	569.6520	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	24.7975	32.6781	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	1716.4908	1589.2583	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	4.9980	6.7090	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	4.0651	5.4203	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	1.6314	2.1679	0.0000	0.0000	0	0.00	
Jun 2019	ZAGB	18.00 Call	1,000	514.1764	0.0000	0.0000	0.0000	1,700	0.00	
			<u>7,500</u>					<u>1,700.00</u>	<u>0.00</u>	<u>1 784 813.00</u>
		Total	439,635					1,710.00	175,574.30	15 635 983.00
Future										
Mar 2019	ZAJY	Future	10,000	0.1228	0.1227	0.0000	0.0000	0	0.00	
			<u>10,000</u>					<u>0.00</u>	<u>0.00</u>	<u>1 091 937.00</u>
		Total	10,000					0.00	0.00	1 091 937.00
Future										
Jun 2019	ZAKS	Future	2,166	0.1326	0.1327	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
Future										
Sep 2019	ZANZ	Future	646	9.5212	9.5053	0.0000	0.0000	0	0.00	
			<u>646</u>					<u>0.00</u>	<u>0.00</u>	<u>146 792.00</u>
		Total	646					0.00	0.00	166 792.00
Future										
Mar 2019	ZASD	Future	1,200	9.9655	9.9585	0.0000	0.0000	0	0.00	
			<u>1,200</u>					<u>0.00</u>	<u>0.00</u>	<u>10 726.00</u>
		Total	1,200					0.00	0.00	10 726.00
Future										
Mar 2019	ZATR	Future	30,000	2.5286	2.5183	0.0000	0.0000	0	0.00	
			<u>30,000</u>					<u>0.00</u>	<u>0.00</u>	<u>426 330.00</u>
		Total	30,000					0.00	0.00	426 330.00

<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	ZAUM	Future	422	13.4598	13.4702	0.0000	0.0000	0	0.00	
Jun 2019	ZAUM	Future	10	13.6035	13.6145	0.0000	0.0000	0	0.00	
			432					0.00	0.00	155 505.00 180 428 410 410.00
	Total		432					0.00	0.00	160 028.00 180 428 410 410.00
Future										
Mar 2019	ZAUS	Future	542,461	13.4598	13.4702	13.4884	13.4016	29,011	389,992,784.30	
Jun 2019	ZAUS	Future	103,517	13.6035	13.6145	13.6531	13.5927	3,168	43,042,855.30	
Sep 2019	ZAUS	Future	14,327	13.7612	13.7738	13.7465	13.7465	7,019	96,477,578.30	
Dec 2019	ZAUS	Future	10,100	13.9114	13.9245	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	4,566	14.0768	14.0886	0.0000	0.0000	0	0.00	
			674,971					39,198.00	529,513,217.90	194 889 532.00 2 350 047 947 228.60
Option										
Mar 2019	ZAUS	10.33 Put	1,000	0.0381	0.0349	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	11.74 Put	1,000	1.6781	1.5528	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.47 Put	721	15.3593	15.0490	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.51 Put	720	17.2180	16.9819	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.80 Put	7,520	38.6931	39.5106	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.90 Put	16,000	55.7616	56.7184	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.92 Put	139,342	59.7561	60.7358	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.00 Put	15,434	77.8320	78.8799	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.05 Put	1,155	90.9242	91.9949	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.12 Put	138,000	111.7123	112.7767	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.15 Put	10,125	121.5285	122.5786	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.25 Put	225,407	158.3118	159.2390	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.33 Put	135,043	192.3209	193.0721	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.36 Put	134,750	206.1323	206.7975	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.46 Put	20,000	256.6315	256.9165	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.50 Call	245	239.5417	249.9787	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.50 Put	12,050	279.7417	279.7787	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.55 Put	10,000	309.9843	309.6956	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.60 Call	500	201.4738	211.2382	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.60 Put	6,570	341.6738	341.0382	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.62 Put	6,432	354.7384	353.9607	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.68 Put	14,200	395.2031	393.9881	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.70 Put	2,500	409.1003	407.7368	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.72 Put	10,000	423.1938	421.6789	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.79 Put	262,812	473.9959	471.9519	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.82 Put	2,100	496.4365	494.1647	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.85 Put	1,000	519.2546	516.7553	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.86 Put	721	526.9419	524.3653	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.90 Put	720	558.0819	555.2038	0.0000	0.0000	0	0.00	

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Mar 2019	ZAUS	13.95 Call	1,000	107.6431	114.7924	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	98.2733	105.0568	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	29,200	638.4733	634.8568	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	671.5570	667.6536	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	67.9943	73.1639	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	61.8551	66.7102	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	878.6391	872.9113	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	56.2659	60.8189	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	896.4659	890.6189	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	941.3790	935.2458	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	1023.3577	1016.7416	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	1032.5485	1025.8815	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	41.5547	45.2382	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	40.0130	43.5964	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	38.5285	42.0159	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	1078.7285	1071.8159	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	1106.6063	1099.5523	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	1134.6033	1127.4136	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	1219.2471	1211.6776	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	1304.7478	1296.8384	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	21.9565	24.2418	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1371.6903	1363.5395	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1381.2314	1373.0443	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1390.7819	1382.5595	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1400.3416	1392.0839	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	14.2164	15.8601	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1593.2225	1584.3585	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1651.6128	1642.5986	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1671.1208	1662.0594	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1680.8827	1671.7983	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	9.7795	11.0067	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1739.5566	1730.3414	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1749.3519	1740.1159	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	8.7557	9.8793	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	8.1924	9.2582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1867.2137	1857.7542	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	5.8706	6.6848	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	5.2521	5.9956	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	5.1364	5.8663	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	3,050	4.6983	5.3767	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	4.2976	4.9278	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	3.2887	3.7932	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	15.81 Call	10	2.3544	2.7353	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	2.2520	2.6187	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	1.9707	2.2981	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	1.5440	1.8096	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	1.1584	1.3658	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	1.1083	1.3060	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	1.1048	1.2950	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	1.1049	1.2908	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	1.1124	1.2892	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	1.1137	1.2897	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	1.1515	1.3163	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	1.1529	1.3174	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	1.1603	1.3236	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	1.1697	1.3317	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	1.1714	1.3331	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	1.1730	1.3346	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	1.1960	1.3552	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	1.2096	1.3676	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	1.2522	1.4075	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	0.4556	0.5213	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	0.1962	0.2278	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	4.2858	4.0576	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	52.6461	52.9511	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	114.7126	114.8612	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	138.0177	138.0709	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	204.2837	204.9725	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	211.2280	211.8886	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	305.9170	306.1301	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	310.3172	310.5085	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	10,000	535.4002	545.9133	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	490.0896	500.2804	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	628.8677	627.4104	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	661.9079	660.2999	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	378.8200	388.1518	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	353.5661	362.6502	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	1,000	347.5181	356.5404	0.0000	0.0000	1,000	0.00
Jun 2019	ZAUS	14.00 Put	143,900	744.0181	742.0404	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	793.6577	791.4634	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	889.0050	886.3933	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	926.7012	923.9327	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	257.1941	265.0747	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	242.2854	249.9001	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	14.58 Call	1,000	211.5611	218.5830	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	1229.3451	1225.1854	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	1245.9682	1241.7393	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	173.1287	179.3164	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	20,000	149.3735	154.5489	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	136.9128	141.8274	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	113.2260	117.5992	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	145,182	97.1208	101.0913	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	87.7793	91.4988	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	86.3196	89.9993	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	75.5674	78.9397	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	70.1790	73.3881	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	68.4789	71.6363	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	64.1675	67.1898	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	59.6775	62.5549	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	13.7241	15.1256	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	9.1342	8.6836	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	151.3495	152.4219	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.15 Put	11,333	355.0468	0.0000	0.0000	0.0000	11,333	0.00
Sep 2019	ZAUS	13.25 Put	3,900	398.9677	400.2498	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.65 Call	5,666	713.4725	0.0000	0.0000	0.0000	5,666	0.00
Sep 2019	ZAUS	13.70 Put	2,000	630.6441	630.6694	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	795.6321	794.9078	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.00 Put	1,000	815.0340	814.2250	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	956.1791	954.7639	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1875.7301	1870.6283	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	2029.7168	2024.0748	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	192.7204	198.8183	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	100.0323	104.1952	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	86.3991	90.0566	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	80.5839	84.0151	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	77.6362	80.9681	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	52.7999	55.3288	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	77.3572	79.1140	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	663.8289	663.3014	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.07 Put	1,351	907.5602	905.8127	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.85 Call	1,351	214.0459	218.7725	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	17.38 Call	1,000	180.8943	184.9420	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	20.00 Call	2,000	50.0403	50.4511	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	11.91 Put	1,000	90.5700	85.7784	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	14.01 Put	1,000	909.7201	908.8876	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	17.73 Call	1,000	265.2438	269.3766	0.0000	0.0000	0	0.00

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		4,473,293					17,999.00	0.00
								64 645 325.00
	Total	5,148,264					57,197.00	529,513,217.90
								259 534 857.00
								2 350 047 947 228.60
	Grand Total	6,496,941					165,335.00	625 538 611.20
								354,901,795
								3,262,247,149,282.43