



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 13-July-2018

<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>
Future									
Jul 2018	DAEU	Future	34	15.4944	15.5705	0.0000	0.0000	0	0.00
Jul 2018	DAEU	Future	10,000	15.4944	15.5643	0.0000	0.0000	10,000	154,582,000.00
Jul 2018	DAEU	Future	33	15.5346	15.6078	0.0000	0.0000	0	0.00
			<u>10,067</u>					<u>10,000.00</u>	<u>154,582,000.00</u>
									<u>801 057.00</u>
									<u>11 961 599 135.60</u>
Option									
Jul 2018	DAEU	15.63 Put	10,000	173.0190	147.4509	0.0000	0.0000	0	0.00
			<u>10,000</u>					<u>0.00</u>	<u>0.00</u>
									<u>956 787.00</u>
									<u>0.00</u>
		Total	20,067					10,000.00	154,582,000.00
									1 757 844.00
									11 961 599 135.60
Future									
Jul 2018	DAUS	Future	34	13.2807	13.3258	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	1,800	13.2842	13.3275	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	500	13.2910	13.3344	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	20,570	13.2928	13.3361	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	1,204	13.2962	13.3396	0.0000	0.0000	700	9,335,790.00
Jul 2018	DAUS	Future	3,367	13.3030	13.3464	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	55	13.3065	13.3498	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	70	13.3253	13.3687	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	5,619	13.3287	13.3721	0.0000	0.0000	49	654,262.70
Aug 2018	DAUS	Future	600	13.3373	13.3807	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	3,404	13.3562	13.3995	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	197	13.3614	13.4046	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	4,137	13.4041	13.4475	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	55	13.4109	13.4544	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	70	13.4502	13.4940	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	225	13.4571	13.5008	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	3,608	13.4606	13.5043	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	55	13.4623	13.5060	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	70	13.4830	13.5266	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	700	13.4882	13.5317	0.0000	0.0000	0	0.00

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Nov 2018	DAUS	Future	3,363	13.5123	13.5558	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	2,078	13.5658	13.6090	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.5692	13.6124	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.6174	13.6603	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,225	13.6191	13.6620	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.6414	13.6842	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	4,725	13.6671	13.7098	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,414	13.7134	13.7559	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	13.7237	13.7661	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	13.7720	13.8141	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	13.8260	13.8674	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	54,000	13.8312	13.8725	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	13.8800	13.9207	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	13.9359	13.9765	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	13.9958	14.0367	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.0520	14.0931	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.1063	14.1476	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.1662	14.2078	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.2242	14.2661	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.2785	14.3206	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.3365	14.3789	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.3946	14.4372	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.4451	14.4879	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.5088	14.5519	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.6184	14.6623	0.0000	0.0000	0	0.00		
			<u>203,375</u>					<u>749.00</u>	<u>9,990,052.70</u>	<u>10 406 423.00</u>	<u>126 772 907 467.80</u>
Option											
Jul 2018	DAUS	14.45 Put	1,500	1160.8563	1118.5450	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.94 Call	1,500	0.0183	0.0444	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.25 Put	20,000	135.1672	124.1038	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.00 Put	500	56.8938	52.3377	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.50 Call	500	104.9126	127.4630	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.80 Put	1,000	541.2380	511.1690	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.82 Call	500	0.3503	0.4581	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	16.32 Call	500	0.1968	0.2913	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	12.32 Put	1,880	6.7363	7.0316	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.86 Put	1,880	606.1140	576.6395	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.18 Call	1,880	0.5651	0.6720	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.43 Put	106	302.6416	285.4887	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.55 Call	106	160.6549	183.7515	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.00 Put	500	140.4379	132.7368	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.65 Call	500	192.6250	214.1086	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>
Aug 2018	DAUS	13.80 Put	1,000	597.0948	572.3543	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.05 Call	500	2.6627	3.2109	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.57 Call	500	2.3045	2.4947	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.30 Put	747	294.4076	280.7142	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.00 Put	500	189.5297	181.2684	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.78 Call	500	244.6049	265.9150	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Put	1,000	634.8985	612.4913	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.25 Call	500	12.6791	15.3649	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.80 Call	500	5.8660	7.2388	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.51 Call	5,000	377.2716	0.0000	0.0000	0.0000	5,000	0.00
Oct 2018	DAUS	13.00 Put	500	233.9735	225.1500	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	670.3172	649.4928	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	292.9700	314.1303	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	25.7233	30.3701	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	12.9074	16.3983	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	27.7249	28.8391	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	716.0872	694.6208	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	21.4746	25.2354	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	6.0076	5.9774	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	23.5190	23.9485	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	616.1349	648.4326	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	266.7902	258.5414	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	696.4065	676.4909	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	325.6245	345.9336	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	43.4688	48.0187	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	30.0271	33.5386	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	607.8694	590.4174	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	101.9810	110.6427	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	373.7959	362.2811	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	422.0014	409.3251	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	243.7118	259.1846	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	228.4747	243.2138	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	294.3045	285.0786	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	716.5604	697.6419	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	355.8655	375.7595	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	59.0932	63.8849	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	43.6449	47.2200	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	320.1187	310.8454	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	381.8236	401.2746	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	341.1942	331.8150	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	405.4980	424.7449	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	360.8168	352.8739	0.0000	0.0000	0	0.00

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Mar 2019	DAUS	14.67 Call	500	426.9325	445.9717	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.00 Put	3,000	381.2437	373.3777	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.49 Call	2,500	894.0863	923.2129	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	14.84 Call	500	447.3414	466.1155	0.0000	0.0000	0	0.00		
May 2019	DAUS	13.00 Put	500	400.7200	392.4565	0.0000	0.0000	0	0.00		
May 2019	DAUS	15.01 Call	500	465.7413	484.1112	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	13.00 Put	500	415.3233	408.1088	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.17 Call	500	479.6395	497.6616	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.45 Put	39,250	621.7060	610.8788	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.44 Call	39,250	282.6387	295.5418	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	434.1615	426.3988	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	502.6919	520.9003	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	450.6077	443.0272	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	520.3847	538.8690	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	464.8155	457.1519	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	542.2625	560.3635	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	478.8949	471.0928	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	558.7417	576.5486	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	490.8526	482.8698	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	577.0987	594.7329	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	502.3748	494.2091	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	595.6809	613.2519	0.0000	0.0000	0	0.00		
			<u>350,739</u>					<u>5,000.00</u>	<u>0.00</u>	<u>19 289 044.00</u>	<u>0.00</u>
Total			554,114					5,749.00	9,990,052.70	29 695 467.00	126 772 907 467.80
Future											
Sep 2018	EUUS	Future	165	1.1718	1.1735	1.1690	1.1690	10	116,900.00		
			<u>165</u>					<u>10.00</u>	<u>116,900.00</u>	<u>729 419.00</u>	<u>8 270 047 367.00</u>
Total			165					10.00	116,900.00	729 419.00	8 270 047 367.00
Future											
Sep 2018	GBUS	Future	0	1.3233	1.3259	1.3249	1.3159	2	26,408.00		
			<u>0</u>					<u>2.00</u>	<u>26,408.00</u>	<u>167 339.00</u>	<u>2 152 792 810.00</u>
Total			0					2.00	26,408.00	167 339.00	2 152 792 810.00
Future											
Sep 2018	ZAAD	Future	12,322	9.9150	9.9401	9.9316	9.9316	9	89,384.40		
Dec 2018	ZAAD	Future	11,415	10.0285	10.0560	10.0540	10.0540	3	30,162.00		
Jun 2019	ZAAD	Future	4,929	10.2782	10.3072	0.0000	0.0000	0	0.00		
			<u>28,666</u>					<u>12.00</u>	<u>119,546.40</u>	<u>3 684 355.00</u>	<u>31 997 077 231.90</u>
Total			28,666					12.00	119,546.40	3 716 732.00	31 997 077 231.90

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Future											
Dec 2018	ZACA	Future	500	10.3087	10.3359	0.0000	0.0000	0	0.00		
			<u>500</u>					<u>0.00</u>	<u>0.00</u>	<u>136 153.00</u>	<u>1 339 439 627.10</u>
		Total	500					0.00	0.00	136 153.00	1 339 439 627.10
Future											
Sep 2018	ZADK	Future	245	2.1057	2.1154	0.0000	0.0000	0	0.00		
Dec 2018	ZADK	Future	15	2.1452	2.1550	0.0000	0.0000	0	0.00		
			<u>260</u>					<u>0.00</u>	<u>0.00</u>	<u>11 835.00</u>	<u>254 651 919.00</u>
		Total	260					0.00	0.00	11 835.00	254 651 919.00
Future											
Sep 2018	ZAEU	Future	137,993	15.6854	15.7585	15.7200	15.6738	1,068	16,772,304.50		
Dec 2018	ZAEU	Future	26,482	15.9722	16.0466	16.0286	15.9948	3,010	48,197,126.00		
Mar 2019	ZAEU	Future	4,808	16.2955	16.3704	0.0000	0.0000	0	0.00		
Jun 2019	ZAEU	Future	5,256	16.6039	16.6791	0.0000	0.0000	0	0.00		
			<u>174,539</u>					<u>4,078.00</u>	<u>64,969,430.50</u>	<u>15 055 645.00</u>	<u>215 057 483 055.90</u>
Option											
Sep 2018	ZAEU	13.50 Put	29,734	4.9611	4.9662	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	14.25 Put	86,688	15.7546	13.9790	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	15.85 Put	86,824	478.5452	445.1760	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	16.76 Call	29,734	105.7648	123.7501	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	19.56 Call	86,824	5.1132	5.9630	0.0000	0.0000	0	0.00		
			<u>319,804</u>					<u>0.00</u>	<u>0.00</u>	<u>7 964 516.00</u>	<u>0.00</u>
		Total	494,343					4,078.00	64,969,430.50	23 020 161.00	215 057 483 055.90
Future											
Sep 2018	ZAFR	Future	1,575	13.4064	13.4961	0.0000	0.0000	0	0.00		
Dec 2018	ZAFR	Future	400	13.6644	13.7558	13.7567	13.7255	235	3,230,115.50		
Jun 2019	ZAFR	Future	150	14.2333	14.3271	0.0000	0.0000	150	2,142,600.00		
			<u>2,125</u>					<u>385.00</u>	<u>5,372,715.50</u>	<u>614 403.00</u>	<u>6 576 161 765.30</u>
		Total	2,125					385.00	5,372,715.50	614 403.00	6 576 161 765.30
Future											
Sep 2018	ZAGB	Future	226,333	17.7123	17.8044	17.7400	17.7000	310	5,491,650.00		
Dec 2018	ZAGB	Future	8,157	17.9825	18.0752	18.0250	17.9724	730	13,129,678.00		
Mar 2019	ZAGB	Future	4,932	18.2809	18.3747	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	Future	6,156	18.5646	18.6580	0.0000	0.0000	0	0.00		
			<u>245,578</u>					<u>1,040.00</u>	<u>18,621,328.00</u>	<u>11 919 038.00</u>	<u>200 673 427 509.30</u>
		Total	245,578					1,040.00	18,621,328.00	13 693 151.00	200 673 427 509.30

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Future											
Sep 2018	ZAJY	Future	115	0.1195	0.1199	0.0000	0.0000	0	0.00		
			<u>115</u>					<u>0.00</u>	<u>0.00</u>	<u>993 919.00</u>	<u>11 089 418 491.40</u>
		Total	115					0.00	0.00	993 919.00	11 089 418 491.40
Future											
Sep 2018	ZAKS	Future	562	0.1313	0.1321	0.0000	0.0000	0	0.00		
Jun 2019	ZAKS	Future	1,093	0.1286	0.1288	0.0000	0.0000	0	0.00		
			<u>1,655</u>					<u>0.00</u>	<u>0.00</u>	<u>35 358.00</u>	<u>476 333 960.00</u>
		Total	1,655					0.00	0.00	35 358.00	476 333 960.00
Future											
Sep 2018	ZATR	Future	12,975	2.6958	2.6977	0.0000	0.0000	0	0.00		
			<u>12,975</u>					<u>0.00</u>	<u>0.00</u>	<u>292 954.00</u>	<u>1 018 927 467.50</u>
		Total	12,975					0.00	0.00	292 954.00	1 018 927 467.50
Future											
Sep 2018	ZAUM	Future	340	13.3854	13.4285	0.0000	0.0000	0	0.00		
Dec 2018	ZAUM	Future	15	13.5365	13.5798	0.0000	0.0000	0	0.00		
			<u>355</u>					<u>0.00</u>	<u>0.00</u>	<u>152 006.00</u>	<u>175 363 179 390.00</u>
		Total	355					0.00	0.00	156 529.00	175 363 179 390.00
Future											
Sep 2018	ZAUS	Future	516,202	13.3854	13.4285	13.5000	13.3870	38,834	521,050,605.80		
Dec 2018	ZAUS	Future	71,927	13.5365	13.5798	13.5965	13.5516	53	718,665.30		
Mar 2019	ZAUS	Future	5,932	13.6980	13.7405	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	Future	15,410	13.8504	13.8914	0.0000	0.0000	0	0.00		
			<u>609,471</u>					<u>38,887.00</u>	<u>521,769,271.10</u>	<u>178 700 085.00</u>	<u>2 116 017 110 274.60</u>
Option											
Sep 2018	ZAUS	11.48 Put	5,200	4.0277	4.4251	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.50 Put	45,000	4.1486	4.5629	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.60 Put	2,000	4.8188	5.3265	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.75 Put	93,314	6.0717	6.7550	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.85 Put	48,200	7.1169	7.9455	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.90 Put	3,000	7.7172	8.6285	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.00 Put	13,300	9.1036	10.2023	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.25 Call	500	1156.6450	1199.3967	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.25 Put	40,000	21.2450	20.8967	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.30 Put	100	25.3024	24.7639	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.38 Put	60,000	33.0481	32.1186	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.50 Call	4,600	933.3912	974.7517	0.0000	0.0000	0	0.00		

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Sep 2018	ZAUS	12.50 Put	34,000	47.9912	46.2517	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.58 Put	8,000	60.4925	58.0451	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.61 Put	13,231	65.7570	63.0072	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.65 Put	1,550	73.2945	70.1099	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.77 Call	5,200	715.2507	753.4677	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.80 Call	50	693.0577	730.5626	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.85 Put	3,750	121.5741	115.3606	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Call	30,000	555.7635	590.6083	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Put	73,000	170.3635	162.1083	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.10 Put	2,500	208.9341	0.0000	0.0000	0.0000	2,500	0.00
Sep 2018	ZAUS	13.20 Call	4,000	437.8091	469.5299	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Put	4,000	252.4091	241.0299	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.22 Put	26,000	261.6890	249.9798	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Call	1,250	411.3764	442.2612	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Put	74,064	275.9764	263.7612	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.50 Call	2,000	299.5071	324.6882	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Call	26,000	264.0491	287.3833	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Put	4,000	478.6491	458.8833	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.65 Call	1,464	247.8257	270.2547	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Call	63,000	158.3533	175.0124	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Put	1,500	772.9533	746.5124	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.70 Call	63,000	63.4653	71.9996	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.00 Call	4,000	41.3668	48.1181	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.97 Call	5,300	10.0965	12.6283	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.04 Call	1,550	9.1350	11.4910	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.14 Call	750	8.0120	10.0496	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.29 Call	73,314	6.7711	8.3980	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.64 Put	2,764	29.8861	29.8853	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	230,784	35.8448	35.9010	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	45.6822	45.8259	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	53.5103	53.7178	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	55.2120	55.4322	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	62.5055	62.7756	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	72.8048	73.1351	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	80.4992	78.8652	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	103.3538	100.9579	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	230,784	1164.8046	1204.8607	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,500	128.3046	125.0607	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	159.8315	155.5048	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	173.2610	168.4748	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	193.3228	187.8528	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	7,000	817.3413	851.3722	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.00 Put	175,030	280.8413	271.5722	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	322.5427	312.1512	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	704.0776	735.8281	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	376.9790	365.1944	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	677.8277	708.9886	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	22,800	391.3277	379.1886	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	494.3501	479.8070	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	230,784	558.5542	586.7007	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	26,300	522.0542	506.9007	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	642.3137	624.0586	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.71 Put	30	648.6609	630.2838	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	450.3316	474.4354	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Put	100	693.8316	674.6354	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	700.3926	681.0763	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	443.4761	467.3471	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	395.2771	417.4365	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	16,130	380.4138	402.0233	0.0000	0.0000	130	0.00
Dec 2018	ZAUS	14.13 Call	20,000	344.4018	364.6111	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	295.7996	313.9808	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.38 Call	30	284.8278	302.5195	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	272.2338	289.3602	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	18,900	241.5167	257.2002	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	239.7279	255.3230	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	237.9537	253.4608	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	20,000	224.2666	239.1000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	216.1586	230.5843	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	202.3752	216.0976	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	16,600	179.2135	192.2824	0.0000	0.0000	500	0.00
Dec 2018	ZAUS	15.01 Call	10,000	177.8243	190.8210	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	167.1241	179.5465	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	159.5469	171.5538	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	123.9662	133.9104	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	0	122.1056	131.9386	0.0000	0.0000	1,000	0.00
Dec 2018	ZAUS	15.70 Call	11,380	105.0986	113.8668	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	6.1264	6.2524	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	59.4352	57.1960	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.06 Put	4,145	101.7185	98.9463	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	184.8798	180.8181	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.45 Call	4,145	813.0365	842.2589	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	570.3482	556.9830	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	735.2103	719.0680	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	803.2943	786.1821	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.30 Call	500	498.4183	520.0995	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.48 Call	1,000	450.4721	470.5133	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.96 Call	17,981	347.1776	363.7874	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	15.45 Call	20,000	263.5718	278.5132	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	15.54 Call	721	250.5621	264.9256	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	10.69 Put	1,000	9.9980	10.1063	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	12.28 Put	1,000	179.4524	173.8980	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	12.75 Put	1,000	318.8542	312.7260	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	12.98 Put	911	400.4742	393.2122	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.24 Put	30,000	509.6719	499.3536	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.83 Put	25,000	825.8486	811.5301	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.88 Put	12,450	855.9473	841.3097	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	594.1629	615.4280	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	532.9108	552.5833	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.55 Call	25,000	384.0139	400.2303	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	12,450	371.9773	387.8114	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	342.9590	357.8435	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	325.0727	339.3508	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	19.8348	21.0689	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	282.6588	274.4775	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	482.5804	499.6185	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	181.9396	192.6833	0.0000	0.0000	0	0.00		
			<u>2,746,791</u>					<u>4,130.00</u>	<u>0.00</u>	<u>51 133 532.00</u>	<u>0.00</u>
Total			3,356,262					43,017.00	521,769,271.10	229 833 617.00	2 116 017 110 274.60
Grand Total			4,717,180					64,293.00	775 567 652.20	313,510,664	2,952,585,742,789.02