



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 23-April-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Apr 2019	DAEU	Future	1	16.0573	15.8393	0.0000	0.0000	1	15,971.00
May 2019	DAEU	Future	2	16.1720	15.9527	0.0000	0.0000	0	0.00
			<u>3</u>					<u>1.00</u>	<u>15,971.00</u>
									<u>816 225.00</u>
									<u>12 206 040 273.80</u>
Option									
Feb 2020	DAEU	16.65 Call	21,000	1044.9638	934.7435	0.0000	0.0000	0	0.00
Feb 2020	DAEU	16.91 Call	15,000	927.8473	829.4898	0.0000	0.0000	0	0.00
Feb 2020	DAEU	17.00 Call	15,000	890.4097	796.0442	0.0000	0.0000	0	0.00
Feb 2020	DAEU	17.07 Call	15,000	862.3770	771.0021	0.0000	0.0000	0	0.00
			<u>66,000</u>					<u>0.00</u>	<u>0.00</u>
									<u>1 812 387.00</u>
									<u>0.00</u>
		Total	66,003					1.00	15,971.00
									2 628 612.00
									12 206 040 273.80
Future									
Apr 2019	DAGB	Future	120	18.5405	18.3203	0.0000	0.0000	0	0.00
Apr 2019	DAGB	Future	27	18.5500	18.3295	0.0000	0.0000	0	0.00
May 2019	DAGB	Future	91	18.6511	18.4293	0.0000	0.0000	0	0.00
Jun 2019	DAGB	Future	49	18.7401	18.5172	0.0000	0.0000	0	0.00
			<u>287</u>					<u>0.00</u>	<u>0.00</u>
									<u>67 296.00</u>
									<u>1 129 513 525.50</u>
		Total	287					0.00	0.00
									274 609.00
									1 129 513 525.50
Future									
Apr 2019	DAUS	Future	0	14.2819	14.0747	0.0000	0.0000	25,000	356,618,500.00
Apr 2019	DAUS	Future	349	14.3259	14.0796	0.0000	0.0000	32	454,560.00
Apr 2019	DAUS	Future	15	14.3309	14.0844	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	4,000	14.3326	14.0860	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	85,000	14.3443	14.0974	0.0000	0.0000	35,000	496,881,000.00
May 2019	DAUS	Future	25,000	14.3476	14.1006	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	93	14.3543	14.1075	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	2	14.3577	14.1109	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	387	14.3818	14.1348	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	91	14.3852	14.1382	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>		
Jun 2019	DAUS	Future	74	14.3921	14.1451	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	2,381	14.4335	14.1857	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.4387	14.1907	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	175	14.4439	14.1957	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	982	14.4911	14.2413	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.4928	14.2430	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	2,216	14.5440	14.2926	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.5493	14.2978	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.5528	14.3013	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	3,757	14.5686	14.3168	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	98	14.5985	14.3461	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.6020	14.3495	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	153	14.6529	14.3993	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	Future	97	14.7047	14.4495	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.7101	14.4548	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.7138	14.4583	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	45	14.7628	14.5056	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.7664	14.5091	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.8192	14.5593	0.0000	0.0000	0	0.00		
Feb 2020	DAUS	Future	3,500	14.8709	14.6073	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.8764	14.6125	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.9332	14.6686	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.9831	14.7185	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.0475	14.7801	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.1539	14.8828	0.0000	0.0000	0	0.00		
			<u>214,415</u>					<u>60,032.00</u>	<u>853,954,060.00</u>	<u>12 209 030.00</u>	<u>152 405 125 008.90</u>
Option											
Apr 2019	DAUS	13.00 Put	3,000	0.0000	0.3397	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.49 Call	2,500	842.9637	601.9730	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.95 Put	734	12.7026	70.6428	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	14.20 Call	734	185.1594	80.2992	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	14.20 Put	250	52.5594	194.2992	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	14.25 Put	250	67.8042	230.1274	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	14.45 Call	734	57.5839	29.5202	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	14.84 Call	500	8.5770	6.0497	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	15.61 Call	250	0.2208	0.5402	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	15.96 Call	250	0.0098	0.1796	0.0000	0.0000	0	0.00		
May 2019	DAUS	13.75 Put	22,000	10.5674	45.7160	0.0000	0.0000	0	0.00		
May 2019	DAUS	13.95 Call	20,000	423.7789	249.9751	0.0000	0.0000	0	0.00		
May 2019	DAUS	14.03 Call	65,000	356.9658	202.5542	0.0000	0.0000	0	0.00		
May 2019	DAUS	13.72 Call	50,000	638.2702	425.3324	0.0000	0.0000	0	0.00		
May 2019	DAUS	14.20 Call	50,000	246.1649	141.2268	0.0000	0.0000	0	0.00		

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May 2019	DAUS	13.75 Put	20,000	18.1576	0.0000	0.0000	0.0000	20,000	0.00
May 2019	DAUS	14.40 Call	40,000	198.4112	128.7588	0.0000	0.0000	0	0.00
May 2019	DAUS	15.10 Call	40,000	43.7240	28.4239	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Call	61,000	284.5919	186.8130	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	37.2037	25.7336	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	20.7284	15.2571	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	5.8362	12.1076	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	184.4124	316.1403	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	207.0703	347.2007	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	101.2881	70.0762	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	27.7076	18.0235	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	13.4066	8.5656	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.83 Put	45,000	80.3755	158.4083	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.06 Put	18,000	149.5125	259.0111	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	184.4248	306.1988	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	9.5408	21.7920	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.02 Put	29,000	170.0167	275.4206	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	242.6392	369.2986	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	265.5702	399.1532	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	149.7522	112.2785	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.33 Call	29,000	123.3540	92.8767	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	57.6748	41.4737	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	34.0941	25.2629	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	19.4009	38.9122	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	294.4892	419.7130	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	317.5695	447.6330	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	198.8771	157.9096	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	94.8945	74.7663	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	67.5087	53.6252	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	454.1756	607.6701	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	97.0369	78.2602	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	37.9412	61.3518	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	336.1215	459.4988	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	359.3637	487.0759	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	235.1263	192.6155	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	125.6725	102.9239	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	94.7642	78.2256	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	16.6390	12.5896	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	56.5697	82.5957	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	369.8023	491.3383	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	393.0938	518.5894	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	270.0744	226.0168	0.0000	0.0000	0	0.00

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Sep 2019	DAUS	16.50 Call	250	155.5765	130.5733	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	120.6192	101.9714	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	75.0279	103.9243	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	400.9762	521.3628	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	424.3166	548.3638	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	298.3042	253.9401	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	181.7398	155.1171	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	145.3719	124.8404	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	90.5086	122.7231	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	426.6803	546.7529	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	450.0985	573.5959	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	327.4571	281.2969	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	207.9994	179.1927	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	170.0682	147.2508	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	104.7296	142.3122	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	449.6220	569.2509	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	473.0213	595.8798	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	354.8202	306.5372	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	234.2161	203.5581	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	195.1399	170.0845	0.0000	0.0000	0	0.00		
			<u>619,496</u>					<u>20,000.00</u>	<u>0.00</u>	<u>24 825 994.00</u>	<u>0.00</u>
Total			833,911					80,032.00	853,954,060.00	37 035 024.00	152 405 125 008.90
Future											
Jun 2019	EUUS	Future	5	1.1255	1.1297	0.0000	0.0000	0	0.00		
Sep 2019	EUUS	Future	143	1.1344	1.1386	0.0000	0.0000	0	0.00		
			<u>148</u>					<u>0.00</u>	<u>0.00</u>	<u>746 137.00</u>	<u>8 464 558 774.00</u>
Total			148					0.00	0.00	746 137.00	8 464 558 774.00
Future											
Jun 2019	GBUS	Future	702	1.2975	1.3044	0.0000	0.0000	0	0.00		
			<u>702</u>					<u>0.00</u>	<u>0.00</u>	<u>176 872.00</u>	<u>2 277 876 069.00</u>
Total			702					0.00	0.00	176 872.00	2 277 876 069.00
Future											
Jun 2019	ZAAD	Future	26,771	10.2291	10.1389	10.2192	10.2192	1	10,219.20		
Sep 2019	ZAAD	Future	1,731	10.3662	10.2732	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.4984	10.4039	0.0000	0.0000	0	0.00		
			<u>28,902</u>					<u>1.00</u>	<u>10,219.20</u>	<u>3 888 367.00</u>	<u>34 125 744 977.40</u>
Option											
Dec 2019	ZAAD	11.00 Call	1,000	223.3880	204.2290	0.0000	0.0000	0	0.00		

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			1,000					0.00	0.00	34 377.00
		Total	29,902					1.00	10,219.20	3 922 744.00
Future										
	Jun 2019	ZACA	Future	1,950	10.7597	10.6031	0.0000	0.0000	0	0.00
	Sep 2019	ZACA	Future	1,415	10.9064	10.7461	0.0000	0.0000	0	0.00
				3,365				0.00	0.00	158 748.00
		Total	3,365					0.00	0.00	158 748.00
Future										
	Jun 2019	ZADK	Future	1,485	2.1730	2.1435	0.0000	0.0000	0	0.00
				1,485				0.00	0.00	16 060.00
		Total	1,485					0.00	0.00	16 060.00
Future										
	Jun 2019	ZAEU	Future	116,987	16.2183	15.9985	16.1806	16.1526	5,121	83,055,243.60
	Sep 2019	ZAEU	Future	42,370	16.5327	16.3073	0.0000	0.0000	0	0.00
	Dec 2019	ZAEU	Future	32,686	16.8296	16.6000	0.0000	0.0000	0	0.00
	Mar 2020	ZAEU	Future	4,361	17.1597	16.9200	0.0000	0.0000	0	0.00
				196,404				5,121.00	83,055,243.60	16 722 735.00
Option										
	Jun 2019	ZAEU	15.35 Put	570	42.8914	84.3063	0.0000	0.0000	0	0.00
	Jun 2019	ZAEU	16.64 Call	300	188.2584	145.3092	0.0000	0.0000	0	0.00
	Jun 2019	ZAEU	16.73 Put	500	678.6170	860.6318	0.0000	0.0000	0	0.00
	Sep 2019	ZAEU	15.62 Put	14,429	177.2606	250.6301	0.0000	0.0000	0	0.00
	Sep 2019	ZAEU	15.85 Put	587	251.3094	342.6209	0.0000	0.0000	0	0.00
	Sep 2019	ZAEU	18.27 Call	14,429	168.2363	143.5940	0.0000	0.0000	0	0.00
	Dec 2019	ZAEU	13.73 Put	17,150	26.3858	32.5171	0.0000	0.0000	0	0.00
	Dec 2019	ZAEU	14.09 Put	136,646	39.9946	50.0671	0.0000	0.0000	0	0.00
	Dec 2019	ZAEU	14.23 Put	61,500	46.8296	58.9058	0.0000	0.0000	0	0.00
	Dec 2019	ZAEU	15.70 Put	136,646	253.0346	324.4824	0.0000	0.0000	0	0.00
	Dec 2019	ZAEU	15.85 Put	61,500	299.2830	381.8566	0.0000	0.0000	0	0.00
	Dec 2019	ZAEU	16.15 Put	17,150	412.5157	516.8804	0.0000	0.0000	0	0.00
	Dec 2019	ZAEU	19.79 Call	136,646	174.7760	156.9371	0.0000	0.0000	0	0.00
	Dec 2019	ZAEU	19.80 Call	61,500	173.9887	156.2471	0.0000	0.0000	0	0.00
	Dec 2019	ZAEU	20.62 Call	17,150	119.3274	106.7399	0.0000	0.0000	0	0.00
				676,703				0.00	0.00	12 048 500.00
		Total	873,107					5,121.00	83,055,243.60	28 771 235.00
Future										
	Jun 2019	ZAFR	Future	1,193	14.1778	14.0453	0.0000	0.0000	0	0.00

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Sep 2019	ZAFR	Future	450	14.4666	14.3298	0.0000	0.0000	0	0.00		
			<u>1,643</u>					<i>0.00</i>	<i>0.00</i>	<i>633 252.00</i>	<i>6 850 953 850.90</i>
		Total	1,643					0.00	0.00	633 252.00	6 850 953 850.90
Future											
Jun 2019	ZAGB	Future	118,644	18.6955	18.4733	18.7200	18.5928	41,613	774,778,759.20		
Sep 2019	ZAGB	Future	23,418	18.9948	18.7676	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	Future	12,845	19.2726	19.0422	0.0000	0.0000	0	0.00		
Mar 2020	ZAGB	Future	4,674	19.5772	19.3382	0.0000	0.0000	0	0.00		
			<u>159,581</u>					<i>41,613.00</i>	<i>774,778,759.20</i>	<i>14 761 554.00</i>	<i>253 978 520 332.80</i>
Option											
Jun 2019	ZAGB	18.00 Call	1,000	816.4113	661.3257	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	19.15 Put	500	759.6800	903.8913	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	18.75 Put	500	623.2600	729.2918	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	22.13 Call	500	217.4959	194.9125	0.0000	0.0000	0	0.00		
			<u>2,500</u>					<i>0.00</i>	<i>0.00</i>	<i>1 790 813.00</i>	<i>0.00</i>
		Total	162,081					41,613.00	774,778,759.20	16 552 367.00	253 978 520 332.80
Future											
Jun 2019	ZAKS	Future	2,166	0.1409	0.1387	0.0000	0.0000	0	0.00		
			<u>2,166</u>					<i>0.00</i>	<i>0.00</i>	<i>38 066.00</i>	<i>515 662 000.00</i>
		Total	2,166					0.00	0.00	38 066.00	515 662 000.00
Future											
Sep 2019	ZANZ	Future	646	9.7049	9.5938	0.0000	0.0000	0	0.00		
			<u>646</u>					<i>0.00</i>	<i>0.00</i>	<i>147 042.00</i>	<i>1 130 048 204.60</i>
		Total	646					0.00	0.00	167 042.00	1 130 048 204.60
Future											
Jun 2019	ZATR	Future	0	2.3880	2.3584	0.0000	0.0000	3,646	8,640,290.80		
			<u>0</u>					<i>3,646.00</i>	<i>8,640,290.80</i>	<i>559 923.00</i>	<i>1 677 093 603.90</i>
		Total	0					3,646.00	8,640,290.80	559 923.00	1 677 093 603.90
Future											
Jun 2019	ZAUM	Future	454	14.4093	14.1621	0.0000	0.0000	0	0.00		
			<u>454</u>					<i>0.00</i>	<i>0.00</i>	<i>156 788.00</i>	<i>182 284 460 340.00</i>
		Total	454					0.00	0.00	161 311.00	182 284 460 340.00
Future											
Jun 2019	ZAUS	Future	841,092	14.4093	14.1621	14.4242	14.2408	370,142	5,317,321,871.70		
Sep 2019	ZAUS	Future	27,588	14.5739	14.3220	14.5799	14.4316	460	6,682,920.50		

<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 2019	ZAUS	Future	22,753	14.7301	14.4741	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	10,345	14.9020	14.6369	0.0000	0.0000	0	0.00	
Jun 2020	ZAUS	Future	700	15.0664	14.7982	0.0000	0.0000	0	0.00	
			<u>902,478</u>					<u>370,602.00</u>	<u>5,324,004,792.20</u>	<u>203 177 123.00</u>
									<u>2 468 909 089 976.20</u>	

Option

Jun 2019	ZAUS	10.69 Put	1,000	0.0391	0.0569	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	1.2377	2.1361	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	3.3314	5.5975	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	4.3399	7.2504	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.92 Put	2,100	6.7789	12.9008	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	8.0492	15.6655	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	8.5635	16.6947	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.10 Put	14,000	11.6113	22.7669	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.22 Put	122,704	16.5405	32.4617	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	17.5238	34.3764	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	18.0345	35.3677	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.28 Put	122,704	19.6477	38.4888	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.30 Put	143,800	20.7935	40.6955	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.35 Put	4,317	23.9212	46.6737	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	7,500	945.2296	733.0217	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	855.8864	656.6520	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Put	700	46.5864	94.5520	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	88.3463	167.7803	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	616.3364	457.6574	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.91 Put	1,000	109.9056	199.7380	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	560.7295	412.5896	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	15,000	547.3475	401.8506	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	138.0475	239.7506	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.06 Put	2,100	159.1664	268.7916	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	162.8714	273.8131	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	215.9116	344.9567	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,982	238.7160	375.2974	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	262.8418	406.7994	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	347.5703	251.5183	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	315.8010	228.9592	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	254.8458	184.5020	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	458.8641	640.3434	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	472.4853	655.7427	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.66 Call	122,704	228.6573	165.5897	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.72 Call	122,704	210.7205	152.6960	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.75 Call	2,000	202.2708	146.6366	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	183.8200	133.4389	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	15.00 Call	17,500	143.7106	104.1628	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	2,900	125.3935	90.7649	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	94.9590	69.0821	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	92.3421	67.2358	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	146,182	71.8993	52.8120	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.58 Call	1,380	64.3908	47.5063	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.60 Call	143,800	62.6471	46.2716	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	59.3059	43.2022	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.66 Call	122,704	57.7069	41.7354	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.73 Call	122,704	52.4640	36.9507	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	47.7287	32.6737	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	41.6791	27.8442	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	39.5846	26.3872	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	5,020	34.4651	22.8411	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	29.4431	19.3846	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	1.3518	1.0201	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	1.8770	2.6117	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	23.8997	33.6200	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.87 Put	9,783	39.4753	56.5399	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.02 Put	17,287	48.3202	76.1058	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.15 Put	11,333	60.1302	98.5744	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	74.3588	118.8445	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.65 Call	5,666	1080.3395	901.9393	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.70 Put	2,000	169.8542	248.2304	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.75 Put	1,000	184.0260	267.3723	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.77 Put	28,500	189.9076	275.2670	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.80 Put	14,000	198.9615	287.3612	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.90 Put	5,908	232.1270	329.8652	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.92 Put	2,149	239.3426	338.7696	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	257.9719	361.6103	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.00 Put	1,000	269.5538	375.7103	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.04 Call	1,000	819.3647	676.9677	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.12 Put	177	318.8983	435.0389	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	359.0536	482.5449	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.25 Call	500	701.6589	576.4644	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.30 Put	9,783	401.8698	532.5495	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.36 Put	111	431.8651	568.1126	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.46 Put	17,287	484.3783	629.6948	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.50 Call	14,000	580.1472	477.1101	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.50 Put	14,000	506.2472	655.1101	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.65 Put	3,000	594.0067	754.1707	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.70 Put	1,000	624.9499	788.4502	0.0000	0.0000	0	0.00

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Sep 2019	ZAUS	14.75 Call	1,000	480.4805	395.3265	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.82 Put	1,000	701.9940	873.1204	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.85 Put	3,000	721.8462	894.7934	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.00 Call	750	398.3509	327.9957	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.03 Call	177	389.5104	320.7763	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.16 Call	111	353.5056	291.4599	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1106.5161	1306.3453	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.51 Call	28,500	273.1897	226.2593	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1249.5538	1456.3683	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	211.1183	175.0474	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	16.66 Call	2,149	120.3926	100.4109	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	16.67 Call	14,000	119.5585	99.7355	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.12 Call	17,287	88.1315	74.2564	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.18 Call	9,783	84.7204	71.4843	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	81.9959	69.0092	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	61.9964	50.8224	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	52.8898	43.5640	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	49.8018	41.1019	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	33.3954	27.9755	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	16.1169	22.7105	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	12.87 Put	139,860	80.4329	111.2723	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.00 Put	49,600	96.5005	132.7437	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.03 Put	69,000	100.5473	138.1161	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	235.7526	313.5289	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.80 Put	500	279.4611	367.4353	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.94 Put	139,860	328.0295	429.3226	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.00 Put	34,000	350.3517	457.4594	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.07 Put	1,351	379.6237	491.4861	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.08 Put	4,150	383.9183	496.4476	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.10 Put	52,300	392.5840	506.4570	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.11 Put	24,055	396.9551	511.5004	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.12 Put	69,000	401.3571	516.5650	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.41 Put	49,600	540.4053	674.3887	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	15.80 Call	250	399.5480	345.3133	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.13 Call	52,300	336.9702	290.0276	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.20 Call	50,100	325.2542	279.4641	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.25 Call	21,000	316.6627	272.1900	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.35 Call	4,150	300.2417	258.2960	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.37 Call	500	297.0760	255.6148	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.55 Call	24,055	270.2418	232.9253	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.85 Call	1,351	231.5381	200.2147	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	16.99 Call	69,000	215.7390	186.8651	0.0000	0.0000	0	0.00

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Dec 2019	ZAUS	17.02 Call	139,860	212.5230	184.1461	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38 Call	1,000	178.1227	154.8821	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	42.8315	33.8389	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	11.91 Put	1,000	18.1818	27.5256	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	12.96 Put	277,778	124.9372	172.2932	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	13.06 Put	275,862	143.8708	196.6377	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	13.19 Put	272,897	171.3305	230.8192	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	13.78 Put	60,000	335.1230	423.5665	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	14.01 Put	1,000	417.7814	522.8329	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	14.40 Put	277,778	592.8741	725.1430	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	14.51 Put	275,862	649.7192	787.9877	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	14.66 Put	272,897	731.3453	877.4996	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	16.60 Call	277,778	418.9091	368.5811	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	16.81 Call	275,862	384.0671	338.4444	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	17.04 Call	272,897	349.8800	308.8885	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	17.73 Call	1,000	267.8919	236.8405	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	17.88 Call	60,000	253.4519	223.4316	0.0000	0.0000	0	0.00	
Jun 2020	ZAUS	11.90 Put	900	36.6207	47.9146	0.0000	0.0000	0	0.00	
Jun 2020	ZAUS	14.25 Put	900	566.8212	686.8225	0.0000	0.0000	0	0.00	
Jun 2020	ZAUS	17.26 Call	900	458.0775	410.9827	0.0000	0.0000	0	0.00	
			<u>5,858,642</u>					<i>0.00</i>	<i>0.00</i>	<i>71 813 316.00</i>
		Total	6,761,120					370,602.00	5,324,004,792.20	274 990 439.00
										<i>2 468 909 089 976.20</i>
		Grand Total	8,737,020					501,016.00	7 044 459 336.00	376,221,561
										3,424,500,997,924.52