



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 25-February-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Feb 2019	DAEU	Future	29	15.7224	15.8801	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	15.8145	15.9733	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	15.8699	16.0295	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	15.9058	16.0659	0.0000	0.0000	0	0.00		
			87					0.00	0.00	816 079.00	12 203 675 785.40
Option											
Aug 2019	DAEU	19.65 Call	62,400	97.5449	118.4241	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.65 Call	21,000	1117.0538	1217.8204	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.91 Call	15,000	1011.3675	1105.3384	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.00 Call	15,000	976.8668	1069.0399	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.07 Call	15,000	950.9082	1041.5871	0.0000	0.0000	0	0.00		
			128,400					0.00	0.00	1 749 987.00	0.00
Total			128,487					0.00	0.00	2 566 066.00	12 203 675 785.40
Future											
Feb 2019	DAGB	Future	47	18.0925	18.2443	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.1816	18.3342	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	18.2349	18.3881	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	18.2695	18.4230	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	27	18.2789	18.4325	0.0000	0.0000	0	0.00		
			317					0.00	0.00	66 877.00	1 121 639 544.20
Total			317					0.00	0.00	274 190.00	1 121 639 544.20
Future											
Feb 2019	DAUS	Future	2,259	13.8461	14.0039	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	13.8526	14.0104	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	10,080	13.8542	14.0120	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.8904	14.0487	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,708	13.8937	14.0521	0.0000	0.0000	1,825	25,391,225.00		
Apr 2019	DAUS	Future	55	13.9004	14.0589	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	0	13.9037	14.0623	0.0000	0.0000	40,000	559,884,000.00
Apr 2019	DAUS	Future	260	13.9220	14.0810	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	349	13.9403	14.0998	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	15	13.9454	14.1050	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	2,164	13.9471	14.1068	0.0000	0.0000	456	6,365,532.00
May 2019	DAUS	Future	25,000	13.9625	14.1223	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	93	13.9694	14.1293	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	387	13.9968	14.1572	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	416	14.0003	14.1608	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	74	14.0073	14.1679	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	1,820	14.0491	14.2107	0.0000	0.0000	456	6,412,545.60
Jul 2019	DAUS	Future	55	14.0543	14.2161	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	682	14.1067	14.2697	0.0000	0.0000	456	6,436,896.00
Aug 2019	DAUS	Future	55	14.1084	14.2715	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	1,678	14.1592	14.3233	0.0000	0.0000	457	6,476,466.90
Sep 2019	DAUS	Future	55	14.1644	14.3287	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	74	14.1679	14.3323	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	53	14.2133	14.3786	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.2168	14.3821	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	108	14.2677	14.4336	0.0000	0.0000	0	0.00
Nov 2019	DAUS	Future	52	14.3189	14.4855	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	14.3242	14.4910	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	321	14.3278	14.4946	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.3792	14.5467	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.4300	14.5983	0.0000	0.0000	0	0.00
Feb 2020	DAUS	Future	3,500	14.4800	14.6497	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	14.4854	14.6551	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.5412	14.7117	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.5897	14.7609	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	14.6519	14.8242	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	14.7603	14.9329	0.0000	0.0000	0	0.00
			<u>142,558</u>					<u>43,650.00</u>	<u>610,966,665.50</u>
									<u>11 247 987.00</u>
									<u>138 647 802 136.50</u>
Option									
Feb 2019	DAUS	13.75 Put	25,000	17.3541	11.4775	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	0.1502	0.3388	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	28.5419	22.8848	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	364.7840	240.0573	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	8.4832	34.9219	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	412.3832	281.0219	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	2.5793	9.9980	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	0.6897	3.6641	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	0.0371	0.6385	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	15.63 Call	250	0.0298	0.2255	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.40 Call	50,000	466.9633	621.0918	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	100,000	16.8078	12.0015	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.50 Call	50,000	376.1813	527.6988	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Call	100,000	213.6389	353.8974	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Put	100,000	59.4389	41.8974	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Put	25,000	78.6046	52.3682	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	200.7072	141.3030	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	2.3670	7.6917	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.80 Call	30,000	258.2944	370.0573	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Call	30,000	112.5023	179.6603	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	233.9458	178.9856	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	305.4481	236.1768	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	16.8075	13.2037	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	75.3697	53.0188	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	260.9377	364.6643	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	451.4852	363.0858	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	488.9511	396.4971	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	101.0551	155.8244	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	61.6188	100.5096	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	14.2507	28.4604	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	6.2654	13.4280	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.00 Call	30,000	235.8773	324.9796	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	206.3738	158.9980	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	138.6947	199.5834	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	47.4758	34.7726	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	619.4333	743.6900	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	527.2152	445.0168	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	561.6750	476.4055	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	129.3979	174.6198	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	51.5450	74.1562	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	33.4861	49.2405	0.0000	0.0000	0	0.00
May 2019	DAUS	13.72 Call	50,000	520.9606	630.2655	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Call	50,000	312.6933	391.0668	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Call	61,000	340.1598	416.8052	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	130.7046	167.4855	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	103.1085	134.0658	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	93.5671	73.8661	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	595.4246	515.8490	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	628.2279	546.1482	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	193.0981	240.1152	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	97.6863	125.4465	0.0000	0.0000	0	0.00

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May 2019	DAUS	16.15 Call	250	71.6409	92.7824	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.83 Put	45,000	393.4542	335.3447	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.06 Put	18,000	519.6214	449.7567	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	574.8192	499.3052	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	18,000	639.0226	558.0373	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	119.0203	97.2052	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	627.5106	551.3644	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	659.4730	581.0608	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	227.4681	276.2071	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	125.6396	156.9815	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	96.3781	121.3388	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	146.2677	122.7961	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	658.4985	585.9607	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	689.6598	614.7285	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	265.2579	316.1037	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	156.7338	191.8346	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	124.4945	153.4601	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	849.2508	766.7647	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	154.2899	187.9805	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	169.3081	144.6230	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	683.2563	612.9853	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	713.8029	641.4334	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	292.6126	344.2594	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	181.0802	218.0039	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	146.5594	177.5688	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	52.1084	69.5021	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	191.0161	164.4712	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	707.0074	636.4413	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	737.0753	664.6536	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	324.2669	375.2984	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	208.9916	246.2464	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	171.2785	202.8544	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	212.3846	184.2157	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	729.6411	658.7594	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	759.2801	686.7515	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	347.6894	399.4800	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	233.0399	270.2671	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	195.0205	226.8202	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	231.0501	200.8776	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	748.1499	677.0496	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	777.5249	704.8474	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	371.2308	422.3902	0.0000	0.0000	0	0.00

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Nov 2019	DAUS	16.87 Call	250	255.9401	293.0535	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	17.26 Call	250	218.5523	249.4733	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	13.00 Put	500	249.6002	215.8344	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.20 Put	250	764.8562	694.0606	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	793.9327	721.6326	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	394.4288	444.4927	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	280.5680	317.6335	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	245.2457	274.0818	0.0000	0.0000	0	0.00	
			<u>1,070,094</u>					<u>0.00</u>	<u>0.00</u>	<u>23 497 313.00</u>
		Total	1,212,652					43,650.00	610,966,665.50	34 745 300.00
										138 647 802 136.50
Future										
Mar 2019	EUUS	Future	5	1.1372	1.1356	0.0000	0.0000	0	0.00	
Jun 2019	EUUS	Future	582	1.1457	1.1441	0.0000	0.0000	0	0.00	
			<u>587</u>					<u>0.00</u>	<u>0.00</u>	<u>745 402.00</u>
		Total	587					0.00	0.00	8 456 173 900.00
										745 402.00
Future										
Mar 2019	GBUS	Future	5	1.3079	1.3040	0.0000	0.0000	0	0.00	
Dec 2019	GBUS	Future	2,219	1.3249	1.3209	0.0000	0.0000	0	0.00	
			<u>2,224</u>					<u>0.00</u>	<u>0.00</u>	<u>176 160.00</u>
		Total	2,224					0.00	0.00	2 268 523 867.00
										176 160.00
Future										
Mar 2019	ZAAD	Future	4,731	9.9639	10.0091	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	15,741	10.0838	10.1301	0.0000	0.0000	0	0.00	
Sep 2019	ZAAD	Future	513	10.2160	10.2649	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.3429	10.3928	0.0000	0.0000	0	0.00	
			<u>21,385</u>					<u>0.00</u>	<u>0.00</u>	<u>3 850 497.00</u>
		Total	22,385					0.00	0.00	33 738 285 873.60
										3 850 497.00
Option										
Dec 2019	ZAAD	11.00 Call	1,000	261.0352	283.9349	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>
		Total	22,385					0.00	0.00	3 884 874.00
										33 738 285 873.60
Future										
Mar 2019	ZACA	Future	500	10.5484	10.6441	0.0000	0.0000	0	0.00	
Jun 2019	ZACA	Future	400	10.6843	10.7819	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	400	10.8311	10.9309	0.0000	0.0000	0	0.00	
			<u>1,300</u>					<u>0.00</u>	<u>0.00</u>	<u>150 863.00</u>
		Total	1,300					0.00	0.00	1 496 897 890.10
										150 863.00

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Future											
Jun 2019	ZADK	Future	250	2.1547	2.1763	0.0000	0.0000	0	0.00		
			250					0.00	0.00	13 625.00	294 020 589.00
		Total	250					0.00	0.00	13 625.00	294 020 589.00
Future											
Mar 2019	ZAEU	Future	139,255	15.7789	15.9373	15.8509	15.7919	531	8,398,518.30		
Jun 2019	ZAEU	Future	29,914	16.0675	16.2296	16.1361	16.1361	1	16,136.10		
Sep 2019	ZAEU	Future	21,578	16.3850	16.5524	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	Future	17,761	16.6860	16.8567	0.0000	0.0000	0	0.00		
			208,508					532.00	8,414,654.40	16 211 503.00	234 253 056 701.40
Option											
Mar 2019	ZAEU	16.00 Call	650	124.5112	202.8438	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	15.62 Put	14,429	362.7957	318.3308	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.27 Call	14,429	277.4218	322.8276	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	234.2367	274.0197	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	44.7699	37.0347	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	616.0376	554.4194	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	223.3714	243.6629	0.0000	0.0000	0	0.00		
			135,958					0.00	0.00	11 000 163.00	0.00
		Total	344,466					532.00	8,414,654.40	27 211 666.00	234 253 056 701.40
Future											
Mar 2019	ZAFR	Future	1,243	13.8924	14.0566	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	250	14.1593	14.3270	0.0000	0.0000	0	0.00		
			1,493					0.00	0.00	627 180.00	6 762 982 219.60
		Total	1,493					0.00	0.00	627 180.00	6 762 982 219.60
Future											
Mar 2019	ZAGB	Future	326,192	18.1472	18.2996	18.2000	18.2000	2	36,400.00		
Jun 2019	ZAGB	Future	5,703	18.4238	18.5794	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	17,844	18.7234	18.8840	18.8075	18.7980	740	13,911,260.00		
Dec 2019	ZAGB	Future	12,565	19.0038	19.1674	0.0000	0.0000	0	0.00		
Mar 2020	ZAGB	Future	0	19.3079	19.4756	19.3538	19.3538	500	9,676,900.00		
			362,304					1,242.00	23,624,560.00	13 955 261.00	238 742 092 596.50
Option											
Mar 2019	ZAGB	18.00 Put	500	180.0478	143.9983	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	41.6374	80.5293	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1071.4331	946.7241	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	7.4613	12.5217	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	5.6383	9.1060	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Mar 2019	ZAGB	21.44 Call	500	1.1249	1.6010	0.0000	0.0000	0	0.00	
Jun 2019	ZAGB	18.00 Call	1,000	842.3962	969.0056	0.0000	0.0000	0	0.00	
			7,500					0.00	0.00	1 784 813.00
		Total	369,804					1,242.00	23,624,560.00	15 740 074.00 238 742 092 596.50
Future										
Mar 2019	ZAJY	Future	10,000	0.1254	0.1270	0.0000	0.0000	0	0.00	
			10,000					0.00	0.00	1 091 937.00 12 363 272 053.60
		Total	10,000					0.00	0.00	1 091 937.00 12 363 272 053.60
Future										
Jun 2019	ZAKS	Future	2,166	0.1381	0.1395	0.0000	0.0000	0	0.00	
			2,166					0.00	0.00	38 066.00 515 662 000.00
		Total	2,166					0.00	0.00	38 066.00 515 662 000.00
Future										
Sep 2019	ZANZ	Future	646	9.8108	9.8337	0.0000	0.0000	0	0.00	
			646					0.00	0.00	146 792.00 1 127 677 204.60
		Total	646					0.00	0.00	166 792.00 1 127 677 204.60
Future										
Mar 2019	ZATR	Future	25,000	2.5833	2.5967	0.0000	0.0000	5,000	12,933,000.00	
			25,000					5,000.00	12,933,000.00	445 935.00 1 387 108 669.90
		Total	25,000					5,000.00	12,933,000.00	445 935.00 1 387 108 669.90
Future										
Mar 2019	ZAUM	Future	450	13.8753	14.0336	13.9381	13.8819	15	20,878,800.00	
Jun 2019	ZAUM	Future	5	14.0247	14.1858	14.0922	14.0922	5	7,046,100.00	
			455					20.00	27,924,900.00	155 708.00 180 714 970 990.00
		Total	455					20.00	27,924,900.00	160 231.00 180 714 970 990.00
Future										
Mar 2019	ZAUS	Future	777,226	13.8753	14.0336	13.9598	13.8649	100,861	1,401,741,575.10	
Jun 2019	ZAUS	Future	109,648	14.0247	14.1858	14.1104	14.0400	1,408	19,794,676.90	
Sep 2019	ZAUS	Future	22,610	14.1889	14.3537	14.2100	14.2000	18	255,630.00	
Dec 2019	ZAUS	Future	10,863	14.3439	14.5109	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	4,566	14.5106	14.6807	0.0000	0.0000	0	0.00	
			924,913					102,287.00	1,421,791,882.00	196 666 153.00 2 374 933 639 943.60
Option										
Mar 2019	ZAUS	10.33 Put	1,000	0.0129	0.0000	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	11.74 Put	1,000	0.1341	0.1022	0.0000	0.0000	0	0.00	

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Mar 2019	ZAUS	12.47 Put	721	1.8012	1.2984	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	2.0400	1.4904	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	7,520	3.5980	3.5346	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	4.4743	4.5968	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	4.6810	4.8486	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	5.6405	6.0178	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	6.3689	6.9033	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	7.6013	8.3899	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	8.2209	9.1308	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	225,407	13.1441	12.1619	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	21.3863	15.3720	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	25.3265	17.2288	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	42.4273	28.9792	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Call	145	426.4718	568.6731	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	7,550	51.1718	35.0731	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	63.7872	43.9610	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Call	500	353.6743	487.9746	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	78.3743	54.3746	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	84.7805	58.9910	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	106.0103	74.4717	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	113.7661	80.1934	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	121.8641	86.2024	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	152.9041	109.5594	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.82 Put	2,100	167.4835	120.6967	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	182.8168	132.5190	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	188.0947	136.6120	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	210.0180	153.7514	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	165.4067	260.4889	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	147.3778	235.5141	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	29,200	272.0778	201.9141	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	298.9285	223.2672	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	91.6333	157.0486	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	81.1698	141.7448	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	480.1513	379.6419	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	71.8571	127.8416	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	496.5571	394.2416	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	538.2824	431.6367	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	615.6800	501.9006	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	624.4432	509.9236	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	48.5356	91.5858	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	46.2077	87.8281	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	43.9924	84.2241	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.50 Put	50	668.6924	550.6241	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	695.5680	575.4914	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	722.5246	600.6703	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	803.8694	677.9148	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	887.0718	757.3867	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	18.6924	44.4966	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	952.8375	819.8795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	962.2980	828.8847	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	971.7733	837.9119	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	981.2637	846.9606	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	10.1289	27.9313	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1173.6410	1031.8327	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1232.1062	1088.4934	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1251.6537	1107.4800	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1261.4374	1116.9908	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	5.9360	18.7446	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1320.2706	1174.2844	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1330.0961	1183.8693	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	5.0632	16.6677	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	4.6020	15.5338	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1448.6113	1299.5815	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	3.2614	10.9304	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	2.9177	9.7260	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	2.8541	9.5011	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	3,050	2.6149	8.6537	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	2.3984	7.8832	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	1.8631	5.9682	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	1.3779	4.2299	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	1.3251	4.0416	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	1.1805	3.5273	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	0.9612	2.7545	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	0.7619	2.0648	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	0.6987	1.8504	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	0.5715	1.4268	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	0.5023	1.2026	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	0.3700	0.7915	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	0.3594	0.7596	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	0.3402	0.4844	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	0.3405	0.4867	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	0.3422	0.4986	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	0.3445	0.5131	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	0.3449	0.5156	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	17.10 Call	2,500	0.3454	0.5180	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	0.3514	0.5513	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	0.3551	0.5700	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	0.3676	0.6266	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	0.4093	0.7907	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	0.1836	0.6522	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	2.2688	1.9666	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	28.1328	25.0860	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	50.7717	43.0549	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	63.6810	49.7451	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	102.5580	82.2859	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	106.6029	85.7144	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.10 Put	14,000	128.5616	104.4382	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	164.3804	135.3229	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	167.1764	137.7457	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.30 Put	143,800	181.6308	150.3202	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	7,500	776.9088	894.2108	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	717.5678	830.4521	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	399.8130	341.3298	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	560.6880	660.1885	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	524.0325	619.9982	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	23,500	515.1962	610.2816	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	490.4962	424.4816	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	531.7573	461.5089	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	612.3964	534.4049	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	644.7378	564.4051	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	677.7831	595.1447	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	386.2100	462.4108	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	364.5331	437.6358	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	319.5170	385.8873	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	911.9599	815.2275	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	926.9712	829.4483	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	262.4807	319.7555	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	17,500	226.7324	277.8870	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	209.1828	257.1278	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	178.4032	220.4933	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	175.6143	217.1580	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	145,182	152.2130	189.5501	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.60 Call	143,800	140.1727	175.9337	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	135.6485	170.4564	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	119.0685	150.2943	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	110.7237	140.0965	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	15.92 Call	911	108.0884	136.8669	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	101.3894	128.6435	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	94.3973	120.0364	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	26.7949	34.8535	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	6.7835	5.9688	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	87.2147	74.0191	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.15 Put	11,333	222.3406	192.2081	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	253.0314	219.8616	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.65 Call	5,666	945.0881	1059.3851	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.70 Put	2,000	429.2545	376.9151	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.77 Put	28,500	462.6933	407.7914	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	565.4208	503.2473	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.00 Put	1,000	581.7239	518.4671	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.12 Put	177	649.1871	581.6511	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	702.1123	631.3796	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.50 Call	14,000	575.1252	658.4828	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.65 Put	3,000	988.3462	901.7984	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.03 Call	177	424.6919	490.5864	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1541.6975	1433.2066	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.51 Call	28,500	327.0491	380.1785	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1689.6066	1576.7599	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	267.1773	315.3597	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	131.0639	155.0772	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	112.6362	133.5696	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	104.7925	124.3905	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	102.0467	121.1755	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	85.7735	102.8375	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	37.8237	29.4028	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	473.7930	424.6187	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.80 Put	500	540.5621	482.5513	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	681.9425	615.2093	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.20 Call	500	367.0381	415.5156	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	278.2737	316.5736	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	228.1453	256.5291	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	78.8452	95.8843	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	38.9890	27.7545	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	703.3887	633.1951	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	323.8233	351.9428	0.0000	0.0000	0	0.00		
			<u>5,054,877</u>					<u>0.00</u>	<u>0.00</u>	<u>65 610 198.00</u>	<u>0.00</u>
	Total		5,979,790					102,287.00	1,421,791,882.00	262 276 351.00	2 374 933 639 943.60

<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>
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Grand Total		8,102,022				152,731.00	2 105 655 661.90	359,074,244	3,292,435,777,678.83
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