



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 04-February-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
<b>Future</b>											
Feb 2019	DAEU	Future	29	15.3890	15.3924	0.0000	0.0000	2	30,766.00		
Mar 2019	DAEU	Future	53	15.4817	15.4853	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	15.5359	15.5390	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	15.5707	15.5736	0.0000	0.0000	0	0.00		
			<u>87</u>					<u>2.00</u>	<u>30,766.00</u>	<u>816 079.00</u>	<u>12 203 675 785.40</u>
<b>Option</b>											
Aug 2019	DAEU	19.65 Call	62,400	74.3114	79.1635	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>
<b>Total</b>			<b>62,487</b>					<b>2.00</b>	<b>30,766.00</b>	<b>2 434 066.00</b>	<b>12 203 675 785.40</b>
<b>Future</b>											
Feb 2019	DAGB	Future	47	17.5688	17.5378	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	17.6561	17.6252	0.0000	0.0000	73	1,286,990.00		
Apr 2019	DAGB	Future	43	17.7071	17.6757	0.0000	0.0000	26	459,550.00		
Apr 2019	DAGB	Future	120	17.7400	17.7084	0.0000	0.0000	0	0.00		
			<u>290</u>					<u>99.00</u>	<u>1,746,540.00</u>	<u>66 850.00</u>	<u>1 121 162 157.20</u>
<b>Total</b>			<b>290</b>					<b>99.00</b>	<b>1,746,540.00</b>	<b>274 163.00</b>	<b>1 121 162 157.20</b>
<b>Future</b>											
Feb 2019	DAUS	Future	70	13.4185	13.3688	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.4216	13.3717	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,759	13.4415	13.3917	0.0000	0.0000	56	751,170.00		
Mar 2019	DAUS	Future	74	13.4478	13.3980	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	13.4494	13.3996	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.4847	13.4347	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,410	13.4879	13.4379	0.0000	0.0000	8	107,600.00		
Apr 2019	DAUS	Future	55	13.4943	13.4442	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	260	13.5152	13.4649	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	349	13.5329	13.4824	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	15	13.5377	13.4872	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	13.5393	13.4888	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	264	13.5910	13.5401	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	13.5977	13.5468	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	359	13.6381	13.5866	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	13.6431	13.5915	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	26	13.6938	13.6411	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	13.6954	13.6427	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	65	13.7447	13.6924	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	13.7499	13.6975	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	13.7533	13.7009	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	53	13.7977	13.7453	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	13.8011	13.7487	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	108	13.8508	13.7989	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	13.9055	13.8540	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	13.9090	13.8575	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	13.9592	13.9074	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.0091	13.9581	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.0638	14.0124	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.1187	14.0669	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.1665	14.1142	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.2278	14.1748	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.3291	14.2747	0.0000	0.0000	0	0.00		
			<u>102,077</u>					<u>64.00</u>	<u>858,770.00</u>	<u>11 038 793.00</u>	<u>135 739 999 115.00</u>

**Option**

Feb 2019	DAUS	13.76 Put	684	369.9012	421.0498	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.81 Call	684	24.9346	26.6144	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.87 Put	22,000	467.1007	518.9554	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.75 Put	25,000	395.6848	443.0004	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	38.7577	56.5601	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	362.8743	410.6521	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	786.4706	837.9126	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	24.0489	25.9079	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	832.5489	884.2079	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	10.3576	12.4714	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	4.9182	6.7357	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	1.4630	1.9481	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	0.7315	0.8848	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	574.4511	622.4192	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	6.9594	7.2568	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	555.3599	598.7780	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	648.0004	693.1291	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	101.1205	118.5517	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	13.45 Put	600	279.6642	311.7836	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	169.8691	162.6118	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	814.8417	860.9637	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	857.0810	903.6526	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	75.0159	72.7111	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	49.1379	48.1560	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	12.1972	11.7752	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	5.9465	5.7846	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	485.1461	524.8119	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	97.3337	93.7772	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	151.5803	169.1704	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	407.8137	387.4934	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	844.5059	886.8523	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	884.4890	927.1918	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	89.3242	85.7321	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	36.6427	35.2285	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	24.7831	23.9036	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	194.4663	211.8510	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	874.4339	914.3496	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	912.6370	952.9573	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	127.8235	121.7594	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	63.0091	59.6573	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	46.1950	43.5824	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	226.8205	244.8698	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	897.2896	935.3354	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	934.2834	972.8104	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	157.3198	149.4529	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	84.8954	79.9970	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	64.9672	61.0212	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	259.2393	277.0263	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	919.6989	956.3280	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	955.5580	992.6439	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	189.9254	179.8438	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	110.2821	103.3685	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	87.8247	82.6557	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	1133.1212	1171.8877	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	110.7946	104.8840	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	285.2039	301.8981	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	939.1104	974.8740	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	974.1898	1010.4084	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	216.3941	206.4429	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	132.9894	126.1039	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	16.70 Call	250	110.0832	104.8138	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	32.5042	27.9219	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	308.0361	323.6147	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	955.2401	990.4377	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	989.6319	1025.2877	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	243.6558	233.7121	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	156.5252	150.5543	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	133.0046	128.1479	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	330.1261	345.3932	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	970.9123	1005.1576	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	1004.6893	1039.3841	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	265.6533	256.7020	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	179.2927	174.3728	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	155.9058	151.3334	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	349.1554	363.9997	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	983.9789	1017.4766	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	1017.2285	1051.1844	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	287.3078	278.8874	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	200.5377	197.0305	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	176.3199	173.3645	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	367.6037	382.2058	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	995.7358	1028.6624	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	1028.4629	1061.8558	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	309.0256	301.0475	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	224.3400	221.3441	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	199.2624	197.0235	0.0000	0.0000	0	0.00		
			<u>257,462</u>					0.00	0.00	22 488 583.00	0.00
<b>Total</b>			<b>359,539</b>					<b>64.00</b>	<b>858,770.00</b>	33 527 376.00	135 739 999 115.00
<b>Future</b>											
Mar 2019	EUUS	Future	5	1.1467	1.1512	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1554	1.1599	0.0000	0.0000	0	0.00		
			<u>587</u>					0.00	0.00	745 402.00	8 456 173 900.00
<b>Total</b>			<b>587</b>					<b>0.00</b>	<b>0.00</b>	745 402.00	8 456 173 900.00
<b>Future</b>											
Mar 2019	GBUS	Future	5	1.3083	1.3108	0.0000	0.0000	0	0.00		
			<u>5</u>					0.00	0.00	171 722.00	2 209 540 628.00
<b>Total</b>			<b>5</b>					<b>0.00</b>	<b>0.00</b>	171 722.00	2 209 540 628.00
<b>Future</b>											
Mar 2019	ZAAD	Future	5,781	9.7241	9.7401	0.0000	0.0000	0	0.00		

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Jun 2019	ZAAD	Future	15,741	9.8399	9.8556	0.0000	0.0000	0	0.00	
Sep 2019	ZAAD	Future	513	9.9681	9.9829	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.0914	10.1066	0.0000	0.0000	0	0.00	
			<u>22,435</u>					<i>0.00</i>	<i>0.00</i>	<i>3 849 138.00</i>
<b>Option</b>										
Dec 2019	ZAAD	11.00 Call	1,000	194.1707	196.8167	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<i>0.00</i>	<i>0.00</i>	<i>34 377.00</i>
		<b>Total</b>	<b>23,435</b>					<b>0.00</b>	<b>0.00</b>	<b>3 883 515.00</b>
<b>Future</b>										
Mar 2019	ZACA	Future	500	10.2671	10.2405	0.0000	0.0000	0	0.00	
Jun 2019	ZACA	Future	650	10.3976	10.3703	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	400	10.5383	10.5099	0.0000	0.0000	0	0.00	
			<u>1,550</u>					<i>0.00</i>	<i>0.00</i>	<i>150 363.00</i>
		<b>Total</b>	<b>1,550</b>					<b>0.00</b>	<b>0.00</b>	<b>150 363.00</b>
<b>Future</b>										
Mar 2019	ZAEU	Future	142,903	15.4463	15.4500	15.4432	15.4432	5,058	78,198,685.60	
Jun 2019	ZAEU	Future	29,425	15.7300	15.7325	15.7400	15.7400	30	472,200.00	
Sep 2019	ZAEU	Future	21,291	16.0419	16.0428	16.0575	16.0575	105	1,686,037.50	
Dec 2019	ZAEU	Future	17,899	16.3401	16.3411	0.0000	0.0000	0	0.00	
			<u>211,518</u>					<i>5,193.00</i>	<i>80,356,923.10</i>	<i>16 199 204.00</i>
<b>Option</b>										
Mar 2019	ZAEU	16.00 Call	650	108.1294	117.1432	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	184.5459	189.6987	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	66.3385	67.3498	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	778.5047	785.5512	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	203.7395	210.7639	0.0000	0.0000	0	0.00	
			<u>107,100</u>					<i>0.00</i>	<i>0.00</i>	<i>10 956 876.00</i>
		<b>Total</b>	<b>318,618</b>					<b>5,193.00</b>	<b>80,356,923.10</b>	<b>27 156 080.00</b>
<b>Future</b>										
Mar 2019	ZAFR	Future	1,143	13.5331	13.5492	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	13.7945	13.8098	0.0000	0.0000	0	0.00	
			<u>1,293</u>					<i>0.00</i>	<i>0.00</i>	<i>626 980.00</i>
		<b>Total</b>	<b>1,293</b>					<b>0.00</b>	<b>0.00</b>	<b>626 980.00</b>
<b>Future</b>										
Mar 2019	ZAGB	Future	398,008	17.6229	17.5920	17.6197	17.6100	619	11,067,414.60	
Jun 2019	ZAGB	Future	5,823	17.8897	17.8572	0.0000	0.0000	247	4,432,810.20	
Sep 2019	ZAGB	Future	15,609	18.1800	18.1459	0.0000	0.0000	0	0.00	

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	Dec 2019	ZAGB	Future	12,690	18.4543	18.4207	0.0000	0.0000	0	0.00		
				<u>432,130</u>					<u>866.00</u>	<u>15,500,224.80</u>	<u>13 851 160.00</u>	<u>236 881 077 371.20</u>
<b>Option</b>												
	Mar 2019	ZAGB	18.00 Put	500	569.6520	600.1308	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.00 Call	2,500	32.6781	35.1881	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.19 Put	1,000	1589.2583	1622.5813	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.00 Call	500	6.7090	7.9163	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.18 Call	1,500	5.4203	6.3375	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	21.44 Call	500	2.1679	2.5599	0.0000	0.0000	0	0.00		
				<u>6,500</u>					<u>0.00</u>	<u>0.00</u>	<u>1 783 113.00</u>	<u>0.00</u>
			<b>Total</b>	<b>438,630</b>					<b>866.00</b>	<b>15,500,224.80</b>	<b>15 634 273.00</b>	<b>236 881 077 371.20</b>
<b>Future</b>												
	Mar 2019	ZAJY	Future	10,000	0.1227	0.1233	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>	<u>12 363 272 053.60</u>
			<b>Total</b>	<b>10,000</b>					<b>0.00</b>	<b>0.00</b>	<b>1 091 937.00</b>	<b>12 363 272 053.60</b>
<b>Future</b>												
	Jun 2019	ZAKS	Future	2,166	0.1327	0.1317	0.0000	0.0000	0	0.00		
				<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>	<u>515 662 000.00</u>
			<b>Total</b>	<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	<b>38 066.00</b>	<b>515 662 000.00</b>
<b>Future</b>												
	Sep 2019	ZANZ	Future	646	9.5053	9.5175	0.0000	0.0000	0	0.00		
				<u>646</u>					<u>0.00</u>	<u>0.00</u>	<u>146 792.00</u>	<u>1 127 677 204.60</u>
			<b>Total</b>	<b>646</b>					<b>0.00</b>	<b>0.00</b>	<b>166 792.00</b>	<b>1 127 677 204.60</b>
<b>Future</b>												
	Mar 2019	ZASD	Future	1,200	9.9585	9.9525	0.0000	0.0000	0	0.00		
				<u>1,200</u>					<u>0.00</u>	<u>0.00</u>	<u>10 726.00</u>	<u>109 054 884.50</u>
			<b>Total</b>	<b>1,200</b>					<b>0.00</b>	<b>0.00</b>	<b>10 726.00</b>	<b>109 054 884.50</b>
<b>Future</b>												
	Mar 2019	ZATR	Future	30,000	2.5183	2.5050	0.0000	0.0000	1,091	2,746,483.40		
				<u>30,000</u>					<u>1,091.00</u>	<u>2,746,483.40</u>	<u>426 330.00</u>	<u>1 335 920 552.40</u>
			<b>Total</b>	<b>30,000</b>					<b>1,091.00</b>	<b>2,746,483.40</b>	<b>426 330.00</b>	<b>1 335 920 552.40</b>
<b>Future</b>												
	Mar 2019	ZAUM	Future	422	13.4702	13.4203	0.0000	0.0000	0	0.00		
	Jun 2019	ZAUM	Future	10	13.6145	13.5633	0.0000	0.0000	0	0.00		
				<u>432</u>					<u>0.00</u>	<u>0.00</u>	<u>155 505.00</u>	<u>180 428 410 410.00</u>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
<b>Total</b>			<b>432</b>					<b>0.00</b>	<b>0.00</b>	160 028.00	180 428 410 410.00
<b>Future</b>											
Mar 2019	ZAUS	Future	542,938	13.4702	13.4203	13.4800	13.4091	29,666	399,027,573.40		
Jun 2019	ZAUS	Future	100,432	13.6145	13.5633	0.0000	0.0000	4,201	57,249,127.50		
Sep 2019	ZAUS	Future	14,327	13.7738	13.7214	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	Future	10,100	13.9245	13.8730	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	4,566	14.0886	14.0370	0.0000	0.0000	0	0.00		
			<b>672,363</b>					<b>33,867.00</b>	<b>456,276,700.90</b>	<b>194 850 334.00</b>	<b>2 349 518 434 010.70</b>
<b>Option</b>											
Mar 2019	ZAUS	10.33 Put	1,000	0.0349	0.0430	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	11.74 Put	1,000	1.5528	1.9531	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.47 Put	721	15.0490	18.1219	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.51 Put	720	16.9819	20.3900	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.80 Put	7,520	39.5106	50.8250	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.90 Put	16,000	56.7184	71.0626	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.92 Put	139,342	60.7358	75.7157	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.00 Put	15,434	78.8799	96.4952	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.05 Put	1,155	91.9949	111.3112	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.12 Put	138,000	112.7767	134.5146	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.15 Put	10,125	122.5786	145.3584	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.25 Put	225,407	159.2390	185.4814	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.33 Put	135,043	193.0721	222.0127	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.36 Put	134,750	206.7975	237.0278	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.46 Put	20,000	256.9165	293.0414	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.50 Call	245	249.9787	237.3815	0.0000	0.0000	245	0.00		
Mar 2019	ZAUS	13.50 Put	12,050	279.7787	317.0815	0.0000	0.0000	5,000	0.00		
Mar 2019	ZAUS	13.55 Put	10,000	309.6956	348.3813	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.60 Call	500	211.2382	201.3060	0.0000	0.0000	500	0.00		
Mar 2019	ZAUS	13.60 Put	6,570	341.0382	381.0060	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.62 Put	6,432	353.9607	394.4127	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.68 Put	14,200	393.9881	435.8000	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.70 Put	2,500	407.7368	449.9704	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.72 Put	10,000	421.6789	464.3209	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.79 Put	262,812	471.9519	515.9039	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.82 Put	2,100	494.1647	538.6246	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.85 Put	1,000	516.7553	561.6930	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.86 Put	721	524.3653	569.4573	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.90 Put	720	555.2038	600.8751	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.95 Call	1,000	114.7924	111.2230	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.00 Call	100	105.0568	102.0732	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.00 Put	29,200	634.8568	681.7732	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	14.04 Put	7,100	667.6536	714.7867	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	73.1639	71.5030	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	66.7102	65.3923	0.0000	0.0000	1,500	0.00
Mar 2019	ZAUS	14.28 Put	7,028	872.9113	921.6767	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	60.8189	59.8003	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	890.6189	939.5003	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	935.2458	984.3869	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	1016.7416	1066.2672	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	1025.8815	1075.4437	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	45.2382	44.9351	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	43.5964	43.3621	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	42.0159	41.8445	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	1071.8159	1121.5445	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	1099.5523	1149.3700	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	1127.4136	1177.3105	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	1211.6776	1261.7695	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	1296.8384	1346.7387	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	24.2418	23.8789	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1363.5395	1413.0877	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1373.0443	1422.6062	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1382.5595	1432.1341	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1392.0839	1441.6714	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	15.8601	15.7007	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1584.3585	1634.1256	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1642.5986	1692.3995	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1662.0594	1711.8696	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1671.7983	1721.6129	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	11.0067	10.9380	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1730.3414	1780.1801	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1740.1159	1789.9582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	9.8793	9.8281	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	9.2582	9.2155	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1857.7542	1907.6285	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	6.6848	6.6726	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	5.9956	5.9893	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	5.8663	5.8612	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	3,050	5.3767	5.3754	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	4.9278	4.9295	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	3.7932	3.8001	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	2.7353	2.7442	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	2.6187	2.6276	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	2.2981	2.3068	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	16.00 Call	1,906	1.8096	1.8174	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	1.3658	1.7721	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	1.3060	1.7577	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	1.2950	1.7291	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	1.2908	1.7143	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	1.2892	1.6904	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	1.2897	1.6889	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	1.3163	1.6865	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	1.3174	1.6870	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	1.3236	1.6901	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	1.3317	1.6946	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	1.3331	1.6954	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	1.3346	1.6964	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	1.3552	1.7101	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	1.3676	1.7193	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	1.4075	1.2920	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	0.5213	0.4775	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	0.2278	0.2084	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	4.0576	3.9991	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	52.9511	57.2652	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	114.8612	124.4089	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	138.0709	149.4236	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	204.9725	221.7814	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	211.8886	229.1119	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	306.1301	328.4436	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	310.5085	333.0356	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	10,000	545.9133	522.5122	0.0000	0.0000	5,000	0.00
Jun 2019	ZAUS	13.60 Call	700	500.2804	480.3851	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	627.4104	662.0364	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	660.2999	695.5784	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	388.1518	372.4872	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	362.6502	347.9733	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	742.0404	778.7989	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	791.4634	829.0223	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	886.3933	925.3310	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	923.9327	963.3417	0.0000	0.0000	2,564	0.00
Jun 2019	ZAUS	14.35 Call	1,050	265.0747	254.1976	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	249.9001	239.6300	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	218.5830	209.5728	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	1225.1854	1267.7333	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	1241.7393	1284.4235	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	179.3164	171.8886	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	ZAUS	15.00 Call	20,000	154.5489	147.1748	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,500	141.8274	134.9490	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.32 Call	1,980	117.5992	111.6792	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.50 Call	145,182	101.0913	95.8388	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	91.4988	86.6402	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.64 Call	39,589	89.9993	85.2041	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	78.9397	74.6064	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.89 Call	6,800	73.3881	69.2910	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	71.6363	67.6138	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	67.1898	63.3593	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	62.5549	58.9267	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	15.1256	11.4335	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	8.6836	8.8067	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	152.4219	159.5399	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	400.2498	421.8675	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.70 Put	2,000	630.6694	660.2118	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	794.9078	827.9966	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.00 Put	1,000	814.2250	847.6424	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	954.7639	990.3787	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1870.6283	1912.2748	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	2024.0748	2066.5385	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	198.8183	190.1072	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	104.1952	98.2059	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	90.0566	84.1308	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	84.0151	76.7240	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	80.9681	72.4693	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	55.3288	48.9795	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	79.1140	81.3235	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	663.3014	690.1323	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	905.8127	937.6581	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	218.7725	213.9859	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	184.9420	180.7995	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	50.4511	48.2553	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	85.7784	97.0534	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	908.8876	940.5331	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	269.3766	266.9722	0.0000	0.0000	0	0.00		
			<u>4,455,294</u>					<u>14,809.00</u>	<u>0.00</u>	<u>64 627 326.00</u>	<u>0.00</u>
	<b>Total</b>		<b>5,127,657</b>					<b>48,676.00</b>	<b>456,276,700.90</b>	<b>259 477 660.00</b>	<b>2 349 518 434 010.70</b>

<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		6,378,535					55,991.00	557 516 408.20	354,736,460	3,261,621,610,671.23
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