



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 01-February-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Feb 2019	DAEU	Future	29	15.3924	15.3327	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	15.4853	15.4249	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	15.5390	15.4787	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	15.5736	15.5135	0.0000	0.0000	0	0.00		
			<u>87</u>					<u>0.00</u>	<u>0.00</u>	<u>816 077.00</u>	<u>12 203 645 019.40</u>
Option											
Aug 2019	DAEU	19.65 Call	62,400	79.1635	75.1384	0.0000	0.0000	0	0.00		
			<u>62,400</u>					<u>0.00</u>	<u>0.00</u>	<u>1 617 987.00</u>	<u>0.00</u>
		Total	62,487					0.00	0.00	2 434 064.00	12 203 645 019.40
Future											
Feb 2019	DAGB	Future	47	17.5378	17.4902	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	17.6252	17.5767	0.0000	0.0000	3	52,566.00		
Apr 2019	DAGB	Future	43	17.6757	17.6277	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	17.7084	17.6607	0.0000	0.0000	0	0.00		
			<u>290</u>					<u>3.00</u>	<u>52,566.00</u>	<u>66 751.00</u>	<u>1 119 415 617.20</u>
		Total	290					3.00	52,566.00	274 064.00	1 119 415 617.20
Future											
Feb 2019	DAUS	Future	70	13.3688	13.3021	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.3717	13.3051	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,759	13.3917	13.3251	0.0000	0.0000	64	852,480.00		
Mar 2019	DAUS	Future	74	13.3980	13.3314	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	13.3996	13.3330	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.4347	13.3675	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,410	13.4379	13.3706	0.0000	0.0000	550	7,378,085.00		
Apr 2019	DAUS	Future	55	13.4442	13.3770	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	260	13.4649	13.3980	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	349	13.4824	13.4157	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	15	13.4872	13.4206	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	13.4888	13.4222	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	264	13.5401	13.4732	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	13.5468	13.4799	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	359	13.5866	13.5196	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	13.5915	13.5246	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	26	13.6411	13.5751	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	13.6427	13.5768	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	65	13.6924	13.6257	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	13.6975	13.6308	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	13.7009	13.6342	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	53	13.7453	13.6780	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	13.7487	13.6814	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	108	13.7989	13.7301	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	13.8540	13.7833	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	13.8575	13.7866	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	13.9074	13.8344	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	13.9581	13.8854	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.0124	13.9396	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.0669	13.9939	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.1142	14.0412	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.1748	14.1028	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.2747	14.2046	0.0000	0.0000	0	0.00		
			<u>102,077</u>					<u>614.00</u>	<u>8,230,565.00</u>	<u>11 038 729.00</u>	<u>135 739 140 345.00</u>

Option

Feb 2019	DAUS	13.76 Put	684	421.0498	483.7197	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.81 Call	684	26.6144	23.6847	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.87 Put	22,000	518.9554	583.5592	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.75 Put	25,000	443.0004	498.3296	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	56.5601	75.1189	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	410.6521	463.1362	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	837.9126	900.6531	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	25.9079	22.5763	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	884.2079	947.4763	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	12.4714	11.0276	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	6.7357	6.0326	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	1.9481	1.7348	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	0.8848	0.7802	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	622.4192	678.2829	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	7.2568	6.4618	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	598.7780	650.6574	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	693.1291	747.4973	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	118.5517	140.7021	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	311.7836	351.2309	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	162.6118	146.6918	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	860.9637	918.2849	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	903.6526	961.7098	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	72.7111	65.3906	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	48.1560	43.3787	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	11.7752	10.2672	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	5.7846	4.9979	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	524.8119	572.5686	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	93.7772	85.0883	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	169.1704	192.9451	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	387.4934	359.9108	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	886.8523	940.1763	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	927.1918	981.2308	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	85.7321	78.9048	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	35.2285	32.3831	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	23.9036	21.9717	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	211.8510	236.8874	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	914.3496	964.8133	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	952.9573	1004.1126	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	121.7594	113.2969	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	59.6573	55.3679	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	43.5824	40.4015	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	244.8698	269.6917	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	935.3354	984.0988	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	972.8104	1022.1969	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	149.4529	140.0662	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	79.9970	74.7435	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	61.0212	56.9320	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	277.0263	302.0258	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	956.3280	1002.6476	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	992.6439	1039.6101	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	179.8438	169.8750	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	103.3685	97.1265	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	82.6557	77.2831	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	1171.8877	1220.7107	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	104.8840	98.6262	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	301.8981	326.9526	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	974.8740	1019.9755	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	1010.4084	1056.1460	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	206.4429	195.7145	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	126.1039	119.0076	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	16.70 Call	250	104.8138	98.5170	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	27.9219	25.6368	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	323.6147	348.5907	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	990.4377	1034.3669	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	1025.2877	1069.8403	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	233.7121	222.4977	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	150.5543	142.5352	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	128.1479	120.8673	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	345.3932	370.8400	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	1005.1576	1048.8919	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	1039.3841	1083.7373	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	256.7020	244.9309	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	174.3728	165.5128	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	151.3334	143.2029	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	363.9997	389.7637	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	1017.4766	1060.9538	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	1051.1844	1095.2819	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	278.8874	266.3040	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	197.0305	187.2188	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	173.3645	164.2890	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	382.2058	408.3668	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	1028.6624	1072.2302	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	1061.8558	1106.0458	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	301.0475	287.4805	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	221.3441	210.3923	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	197.0235	186.8182	0.0000	0.0000	0	0.00		
			<u>257,462</u>					<i>0.00</i>	<i>0.00</i>	<i>22 488 583.00</i>	<i>0.00</i>
Total			359,539					614.00	8,230,565.00	33 527 312.00	135 739 140 345.00
Future											
Mar 2019	EUUS	Future	5	1.1512	1.1525	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1599	1.1612	0.0000	0.0000	0	0.00		
			<u>587</u>					<i>0.00</i>	<i>0.00</i>	<i>745 402.00</i>	<i>8 456 173 900.00</i>
Total			587					0.00	0.00	745 402.00	8 456 173 900.00
Future											
Mar 2019	GBUS	Future	5	1.3108	1.3138	0.0000	0.0000	0	0.00		
			<u>5</u>					<i>0.00</i>	<i>0.00</i>	<i>171 722.00</i>	<i>2 209 540 628.00</i>
Total			5					0.00	0.00	171 722.00	2 209 540 628.00
Future											
Mar 2019	ZAAD	Future	5,781	9.7401	9.7240	9.6818	9.6818	1	9,681.80		

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Jun 2019	ZAAD	Future	15,741	9.8556	9.8393	0.0000	0.0000	0	0.00		
Sep 2019	ZAAD	Future	513	9.9829	9.9676	9.9723	9.9723	100	997,230.00		
Dec 2019	ZAAD	Future	400	10.1066	10.0878	0.0000	0.0000	0	0.00		
			<u>22,435</u>					<u>101.00</u>	<u>1,006,911.80</u>	<u>3 849 138.00</u>	<u>33 724 500 981.20</u>
Option											
Dec 2019	ZAAD	11.00 Call	1,000	196.8167	189.1003	0.0000	0.0000	0	0.00		
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>	<u>0.00</u>
Total			23,435					101.00	1,006,911.80	3 883 515.00	33 724 500 981.20
Future											
Mar 2019	ZACA	Future	500	10.2405	10.1637	10.2074	10.2074	250	2,551,850.00		
Jun 2019	ZACA	Future	650	10.3703	10.2935	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	400	10.5099	10.4339	0.0000	0.0000	0	0.00		
			<u>1,550</u>					<u>250.00</u>	<u>2,551,850.00</u>	<u>150 363.00</u>	<u>1 491 472 790.10</u>
Total			1,550					250.00	2,551,850.00	150 363.00	1 491 472 790.10
Future											
Mar 2019	ZAEU	Future	142,853	15.4500	15.3899	15.4150	15.3380	5,618	86,246,170.50		
Jun 2019	ZAEU	Future	29,425	15.7325	15.6721	15.6500	15.6500	18	281,700.00		
Sep 2019	ZAEU	Future	21,186	16.0428	15.9819	15.9695	15.9695	6	95,817.00		
Dec 2019	ZAEU	Future	17,899	16.3411	16.2751	0.0000	0.0000	10	162,850.00		
			<u>211,363</u>					<u>5,652.00</u>	<u>86,786,537.50</u>	<u>16 194 011.00</u>	<u>233 979 483 716.30</u>
Option											
Mar 2019	ZAEU	16.00 Call	650	117.1432	105.9092	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	189.6987	181.5387	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	67.3498	71.3372	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	785.5512	820.6610	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	210.7639	204.0922	0.0000	0.0000	0	0.00		
			<u>107,100</u>					<u>0.00</u>	<u>0.00</u>	<u>10 956 876.00</u>	<u>0.00</u>
Total			318,463					5,652.00	86,786,537.50	27 150 887.00	233 979 483 716.30
Future											
Mar 2019	ZAFR	Future	1,143	13.5492	13.4834	13.5224	13.5224	100	1,352,240.00		
Jun 2019	ZAFR	Future	150	13.8098	13.7440	13.8011	13.8011	100	1,380,110.00		
Sep 2019	ZAFR	Future	0	14.0978	14.0307	14.0792	14.0700	200	2,814,920.00		
			<u>1,293</u>					<u>400.00</u>	<u>5,547,270.00</u>	<u>626 980.00</u>	<u>6 760 109 369.60</u>
Total			1,293					400.00	5,547,270.00	626 980.00	6 760 109 369.60
Future											
Mar 2019	ZAGB	Future	398,082	17.5920	17.5439	17.5274	17.4515	519	9,096,157.40		
Jun 2019	ZAGB	Future	5,764	17.8572	17.8093	17.8114	17.8114	500	8,905,700.00		

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Sep 2019	ZAGB	Future	15,609	18.1459	18.0982	18.1018	18.0793	10	180,905.50		
Dec 2019	ZAGB	Future	12,690	18.4207	18.3679	0.0000	0.0000	0	0.00		
			<u>432,145</u>					<u>1,029.00</u>	<u>18,182,762.90</u>	<u>13 850 294.00</u>	<u>236 865 577 146.40</u>
Option											
Mar 2019	ZAGB	18.00 Put	500	600.1308	637.1978	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	35.1881	33.7586	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1622.5813	1669.7952	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	7.9163	7.4448	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	6.3375	5.9504	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	2.5599	2.2734	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>
		Total	438,645					1,029.00	18,182,762.90	15 633 407.00	236 865 577 146.40
Future											
Mar 2019	ZAJY	Future	10,000	0.1233	0.1234	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>
		Total	10,000					0.00	0.00	1 091 937.00	12 363 272 053.60
Future											
Jun 2019	ZAKS	Future	2,166	0.1317	0.1315	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>
		Total	2,166					0.00	0.00	38 066.00	515 662 000.00
Future											
Sep 2019	ZANZ	Future	646	9.5175	9.4916	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>
		Total	646					0.00	0.00	166 792.00	1 127 677 204.60
Future											
Mar 2019	ZASD	Future	1,200	9.9525	9.9338	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>
		Total	1,200					0.00	0.00	10 726.00	109 054 884.50
Future											
Mar 2019	ZATR	Future	30,000	2.5050	2.5159	0.0000	0.0000	0	0.00		
			<u>30,000</u>					<u>0.00</u>	<u>0.00</u>	<u>425 239.00</u>	<u>1 333 174 069.00</u>
		Total	30,000					0.00	0.00	425 239.00	1 333 174 069.00
Future											
Mar 2019	ZAUM	Future	422	13.4203	13.3534	0.0000	0.0000	0	0.00		
Jun 2019	ZAUM	Future	10	13.5633	13.4964	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
			432					0.00	0.00
									155 505.00
									180 428 410 410.00
		Total	432					0.00	0.00
									160 028.00
									180 428 410 410.00
Future									
Mar 2019	ZAUS	Future	545,756	13.4203	13.3534	13.4270	13.3275	36,295	486,496,123.80
Jun 2019	ZAUS	Future	104,633	13.5633	13.4964	13.5800	13.4800	8,222	111,274,829.30
Sep 2019	ZAUS	Future	14,327	13.7214	13.6544	13.7000	13.6617	22	300,841.20
Dec 2019	ZAUS	Future	10,100	13.8730	13.8015	0.0000	0.0000	5	69,150.00
Mar 2020	ZAUS	Future	4,566	14.0370	13.9641	0.0000	0.0000	0	0.00
			679,382					44,544.00	598,140,944.30
									194 816 467.00
									2 349 062 157 309.80
Option									
Mar 2019	ZAUS	10.33 Put	1,000	0.0430	0.0670	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	1.9531	2.3198	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	18.1219	22.8435	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	20.3900	25.8463	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	7,520	50.8250	64.1841	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	71.0626	88.0342	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	75.7157	93.4560	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	96.4952	117.4274	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	111.3112	134.3209	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	134.5146	160.5067	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	145.3584	172.6472	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	225,407	185.4814	217.1127	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	222.0127	257.0838	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	237.0278	273.3566	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	293.0414	333.3069	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	17,050	317.0815	358.8365	0.0000	0.0000	10,000	0.00
Mar 2019	ZAUS	13.55 Put	10,000	348.3813	391.9219	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	381.0060	426.2444	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	394.4127	440.3051	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	435.8000	483.5679	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	449.9704	498.3345	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	464.3209	513.2669	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	515.9039	566.7736	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.82 Put	2,100	538.6246	590.2660	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	561.6930	614.0751	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	569.4573	622.0795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	600.8751	654.4245	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	111.2230	98.9582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	102.0732	90.8163	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	29,200	681.7732	737.4163	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	714.7867	771.1836	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	14.20 Call	2,000	71.5030	63.5833	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	65.3923	58.1511	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	921.6767	981.7174	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	59.8003	53.1842	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	939.5003	999.7842	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	984.3869	1045.2450	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	1066.2672	1128.0407	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	1075.4437	1137.3103	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	44.9351	39.9939	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	43.3621	38.5979	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	41.8445	37.2528	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	1121.5445	1183.8528	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	1149.3700	1211.9246	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	1177.3105	1240.0993	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	1261.7695	1325.1876	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	1346.7387	1410.7207	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	23.8789	21.3105	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1413.0877	1477.4739	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1422.6062	1487.0454	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1432.1341	1496.6259	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1441.6714	1506.2141	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	15.7007	14.0389	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1634.1256	1699.5055	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1692.3995	1757.9703	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1711.8696	1777.4993	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1721.6129	1787.2708	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	10.9380	9.8034	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1780.1801	1845.9960	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1789.9582	1855.7987	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	9.8281	8.8159	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	9.2155	8.2707	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1907.6285	1973.7243	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	6.6726	6.0052	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	5.9893	5.3961	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	5.8612	5.2817	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	3,050	5.3754	4.8481	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	4.9295	4.4499	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	3.8001	3.4403	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	2.7442	2.4940	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	2.6276	2.3894	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	2.3068	2.1012	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	1.8174	1.6607	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	16.13 Call	138,000	1.7721	1.6263	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	1.7577	1.6157	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	1.7291	1.5951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	1.7143	1.5852	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	1.6904	1.5713	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	1.6889	1.5707	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	1.6865	1.5812	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	1.6870	1.5821	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	1.6901	1.5865	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	1.6946	1.5927	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	1.6954	1.5938	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	1.6964	1.5949	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	1.7101	1.6118	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	1.7193	1.6225	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	1.2920	1.2226	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	0.4775	0.4551	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	0.2084	0.2000	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	3.9991	4.5734	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	57.2652	67.3329	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	124.4089	141.1831	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	149.4236	168.2291	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	221.7814	245.9271	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	229.1119	253.7638	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	328.4436	359.1590	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	333.0356	364.0003	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	5,000	522.5122	0.0000	0.0000	0.0000	5,000	0.00
Jun 2019	ZAUS	13.60 Call	700	480.3851	452.6821	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	662.0364	705.7823	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	695.5784	740.2356	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	372.4872	350.5978	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	347.9733	327.4645	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	778.7989	825.5239	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	829.0223	876.8802	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	925.3310	975.1457	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	963.3417	1013.7809	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	254.1976	238.9069	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	239.6300	225.1086	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	209.5728	196.6518	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	1267.7333	1322.1739	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	1284.4235	1339.0415	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	171.8886	161.0090	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	20,000	147.1748	137.6934	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	15.10 Call	1,500	134.9490	126.1740	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.32 Call	1,980	111.6792	104.2672	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.50 Call	145,182	95.8388	89.3711	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	86.6402	80.7272	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.64 Call	39,589	85.2041	79.3775	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	74.6064	69.4272	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.89 Call	6,800	69.2910	64.4408	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	67.6138	62.8678	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	63.3593	58.8781	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	58.9267	54.7228	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	11.4335	9.4572	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	8.8067	9.4688	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	159.5399	175.9392	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	421.8675	451.9906	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.70 Put	2,000	660.2118	697.6891	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	827.9966	869.3484	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.00 Put	1,000	847.6424	889.4034	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	990.3787	1034.8051	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	0	1075.7737	1121.5969	0.0000	0.0000	33,151	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1912.2748	1966.5327	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	2066.5385	2121.9476	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	190.1072	180.2504	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	98.2059	93.0680	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	84.1308	79.5853	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	76.7240	71.1947	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	72.4693	67.1985	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	48.9795	45.1979	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	0	25.8636	23.6852	0.0000	0.0000	33,151	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	81.3235	91.5064	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	690.1323	726.7640	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	937.6581	979.5586	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	213.9859	204.8282	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	180.7995	172.8264	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	48.2553	44.8290	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	97.0534	109.5853	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	940.5331	980.1019	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	266.9722	257.4500	0.0000	0.0000	0	0.00		
			<u>4,454,549</u>					<u>81,302.00</u>	<u>0.00</u>	<u>64 612 517.00</u>	<u>0.00</u>
	Total		5,133,931					125,846.00	598,140,944.30	259 428 984.00	2 349 062 157 309.80

<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		6,384,669					133,895.00	720 499 407.50	354,680,469	3,261,064,094,263.03
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