



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 14-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Jan 2019	DAEU	Future	4,830	16.4194	16.2128	0.0000	0.0000	0	0.00		
Feb 2019	DAEU	Future	26	16.5479	16.3393	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	16.5996	16.3903	0.0000	0.0000	0	0.00		
			<u>4,909</u>					<u>0.00</u>	<u>0.00</u>	<u>811 212.00</u>	<u>12 127 027 968.00</u>
Option											
Dec 2018	DAEU	15.83 Put	32,000	30.9578	72.3528	0.0000	0.0000	0	0.00		
Jan 2019	DAEU	15.85 Put	13,000	49.9289	108.9508	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	16,200	861.0891	977.6772	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	340.0373	305.2021	0.0000	0.0000	0	0.00		
			<u>123,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 510 587.00</u>	<u>0.00</u>
	Total		128,509					0.00	0.00	2 321 799.00	12 127 027 968.00
Future											
Jan 2019	DAGB	Future	4,112	18.2368	18.0294	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	27	18.2678	18.0599	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	18.3545	18.1456	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.4462	18.2363	0.0000	0.0000	0	0.00		
			<u>4,266</u>					<u>0.00</u>	<u>0.00</u>	<u>62 358.00</u>	<u>1 041 064 928.30</u>
	Total		4,266					0.00	0.00	269 671.00	1 041 064 928.30
Future											
Dec 2018	DAUS	Future	1,300	14.4441	14.1889	0.0000	0.0000	1,300	18,679,050.00		
Dec 2018	DAUS	Future	160	14.4456	14.1906	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	1,952	14.4615	14.2077	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.4652	14.2111	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	150	14.4893	14.2334	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	20	14.4912	14.2352	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,901	14.5005	14.2438	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	14.5076	14.2507	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,018	14.5165	14.2594	0.0000	0.0000	963	13,903,023.60		

<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>		
Jan 2019	DAUS	Future	1,655	14.5183	14.2612	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.5413	14.2837	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.5448	14.2872	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.5626	14.3047	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,025	14.5680	14.3100	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.5752	14.3170	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.5770	14.3188	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.6166	14.3578	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	14.6203	14.3614	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.6276	14.3685	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.6788	14.4187	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.7354	14.4743	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.7427	14.4815	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.7869	14.5248	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.7925	14.5303	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.8503	14.5870	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.9100	14.6455	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.9137	14.6491	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.9666	14.7007	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0222	14.7547	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.0835	14.8142	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	15.0873	14.8179	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1449	14.8744	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2046	14.9332	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.2685	14.9960	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3323	15.0589	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.3879	15.1136	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.4580	15.1825	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.5733	15.2961	0.0000	0.0000	0	0.00		
			<u>110,763</u>					<u>2,263.00</u>	<u>32,582,073.60</u>	<u>10 979 669.00</u>	<u>134 903 138 446.20</u>
Option											
Dec 2018	DAUS	13.90 Put	35,000	15.1627	58.1998	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.98 Put	18,000	22.6820	80.1403	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.30 Put	35,000	90.3357	229.1677	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.90 Put	35,000	482.4507	725.0018	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.30 Put	35,000	861.2661	1115.1648	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.20 Put	1,000	0.8724	2.7720	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.30 Put	1,000	1.2735	3.9755	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.10 Put	25,000	47.1977	129.0639	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.66 Call	1,000	88.8116	40.5868	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.75 Call	1,000	66.3099	29.8347	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.00 Put	500	2.6228	4.7717	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>
Dec 2018	DAUS	13.80 Put	1,000	18.8088	62.7107	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	351.2599	215.6586	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	120.8202	245.1946	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	571.4039	793.3985	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	0.9112	0.6143	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	0.4229	0.4273	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	14.6723	30.8956	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	584.1963	396.8882	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	296.7940	183.8997	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	23.5752	51.4061	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	461.5007	306.7467	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	189.0334	118.0700	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	66.8543	133.2201	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	589.5886	418.4199	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	2.3775	4.3832	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	8.3983	16.5784	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	218.0146	331.3921	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	238.8677	357.9202	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	436.7470	316.0589	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	176.9405	124.1429	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	115.7746	80.2768	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	29.6350	45.4884	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	289.0125	402.9969	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	310.8591	429.3941	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	492.5825	380.6148	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	246.9943	187.4439	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	176.6592	133.8021	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	211.2085	302.0469	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	313.4337	243.5413	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	218.8748	307.0444	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	261.1465	359.4898	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	53.4888	74.5131	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	347.1580	461.6830	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	369.6438	488.1096	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	539.5460	434.0660	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	304.4687	242.6875	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	232.7950	185.7511	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	197.3891	274.0039	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	712.7081	579.6338	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	76.4951	103.1591	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1346.6899	1146.8951	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	396.8108	511.2740	0.0000	0.0000	0	0.00

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Apr 2019	DAUS	14.25 Put	250	419.7144	537.7797	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	580.8356	479.4788	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	354.7738	291.7887	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	285.3247	234.1802	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	97.6109	130.5504	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	438.8274	553.3493	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	461.9838	579.7337	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	614.9429	516.8005	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	396.6904	333.6013	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	326.5325	272.1355	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	733.6000	878.7095	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	214.8975	181.2500	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	113.5526	153.9509	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	471.9454	586.2983	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	495.2828	612.6807	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	641.4447	546.3924	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	430.0604	366.7714	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	361.0407	304.5395	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	212.7160	276.7736	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	350.4119	296.6774	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	129.5156	176.1273	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	505.6365	619.7142	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	529.1739	646.0841	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	677.2402	584.0341	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	471.5095	406.3945	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	401.8668	344.4142	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	656.7698	785.8128	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	458.8451	395.1691	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	143.6566	194.8479	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	532.9950	647.2215	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	556.6512	673.5677	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	699.8131	609.8169	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	500.6632	434.7250	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	429.6395	372.5646	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	206.4303	189.2200	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	153.7422	209.6885	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	558.1272	671.7439	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	581.8355	698.0257	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	728.7959	640.4223	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	533.1190	466.2522	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	459.2250	401.8802	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	168.1063	225.4489	0.0000	0.0000	0	0.00

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Oct 2019	DAUS	14.20 Put	250	583.2198	694.9386	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	605.4458	721.1587	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	750.3991	663.4857	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	558.6512	492.5087	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	487.1906	429.7830	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	181.3741	242.7067	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	605.4486	714.6748	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	627.8476	740.8058	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	774.0299	687.8012	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	584.8721	518.4240	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	514.7687	456.8975	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	197.6158	260.9324	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	630.3776	738.7811	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	653.0594	764.8565	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	805.1083	720.0934	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.05 Call	250	619.8090	553.6601	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.44 Call	250	550.7510	492.7810	0.0000	0.0000	0	0.00
			<u>519,655</u>					<i>0.00</i>	<i>0.00</i>
		Total	630,418					2,263.00	32,582,073.60
									<i>33 086 900.00</i>
									<i>134 903 138 446.20</i>
Future									
Dec 2018	EUUS	Future	0	1.1286	1.1347	0.0000	0.0000	60	677,160.00
Jun 2019	EUUS	Future	582	1.1464	1.1524	0.0000	0.0000	0	0.00
			<u>582</u>					<i>60.00</i>	<i>677,160.00</i>
		Total	582					60.00	677,160.00
									<i>745 357.00</i>
									<i>8 455 654 010.00</i>
Future									
Dec 2018	GBUS	Future	0	1.2551	1.2634	0.0000	0.0000	400	5,034,000.00
Mar 2019	GBUS	Future	400	1.2610	1.2691	0.0000	0.0000	400	5,058,000.00
			<u>400</u>					<i>800.00</i>	<i>10,092,000.00</i>
		Total	400					800.00	10,092,000.00
									<i>171 207.00</i>
									<i>2 202 856 108.00</i>
Future									
Dec 2018	ZAAD	Future	0	10.3442	10.2570	0.0000	0.0000	14,657	151,179,877.40
Mar 2019	ZAAD	Future	5,738	10.4704	10.3756	0.0000	0.0000	0	0.00
Jun 2019	ZAAD	Future	15,746	10.6007	10.5036	0.0000	0.0000	0	0.00
Dec 2019	ZAAD	Future	400	10.8836	10.7813	0.0000	0.0000	0	0.00
			<u>21,884</u>					<i>14,657.00</i>	<i>151,179,877.40</i>
									<i>3 840 564.00</i>
									<i>33 637 375 385.00</i>
Option									
Dec 2019	ZAAD	11.00 Call	1,000	575.0060	532.1659	0.0000	0.0000	0	0.00
			<u>1,000</u>					<i>0.00</i>	<i>0.00</i>
									<i>34 377.00</i>
									<i>0.00</i>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Total			22,884					14,657.00	151,179,877.40	3 874 941.00	33 637 375 385.00
Future											
Dec 2018	ZACA	Future	0	10.7898	10.6146	0.0000	0.0000	750	8,092,350.00		
Mar 2019	ZACA	Future	500	10.9304	10.7472	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	11.0871	10.9009	0.0000	0.0000	0	0.00		
			<u>750</u>					<u>750.00</u>	<u>8,092,350.00</u>	<u>143 663.00</u>	<u>1 420 168 895.10</u>
Total			750					750.00	8,092,350.00	143 663.00	1 420 168 895.10
Future											
Dec 2018	ZADK	Future	0	2.1832	2.1666	0.0000	0.0000	140	3,056,480.00		
Jun 2019	ZADK	Future	250	2.2797	2.2513	0.0000	0.0000	0	0.00		
			<u>250</u>					<u>140.00</u>	<u>3,056,480.00</u>	<u>13 125.00</u>	<u>283 029 589.00</u>
Total			250					140.00	3,056,480.00	13 125.00	283 029 589.00
Future											
Dec 2018	ZAEU	Future	0	16.2994	16.1038	16.2826	16.2815	44,769	729,576,596.40		
Mar 2019	ZAEU	Future	123,400	16.6095	16.4002	16.6078	16.5311	776	12,847,696.00		
Jun 2019	ZAEU	Future	24,250	16.9227	16.7087	16.8397	16.8397	5	84,198.50		
Sep 2019	ZAEU	Future	9,596	17.2677	17.0490	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	Future	277	17.6001	17.3762	0.0000	0.0000	0	0.00		
			<u>157,523</u>					<u>45,550.00</u>	<u>742,508,490.90</u>	<u>16 027 131.00</u>	<u>231 297 514 135.80</u>
Total											
Option											
Mar 2019	ZAEU	16.00 Call	650	872.1999	742.3549	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	609.2974	551.2765	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	64.5306	70.7313	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	479.7968	551.3061	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	485.4717	445.5300	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			264,623					45,550.00	742,508,490.90	26 984 007.00	231 297 514 135.80
Future											
Dec 2018	ZAFR	Future	0	14.4786	14.2873	0.0000	0.0000	893	12,929,389.80		
Mar 2019	ZAFR	Future	1,143	14.7698	14.5651	14.6731	14.6706	250	3,667,990.00		
Jun 2019	ZAFR	Future	150	15.0628	14.8534	0.0000	0.0000	0	0.00		
			<u>1,293</u>					<u>1,143.00</u>	<u>16,597,379.80</u>	<u>625 830.00</u>	<u>6 743 581 614.60</u>
Total			1,293					1,143.00	16,597,379.80	625 830.00	6 743 581 614.60
Future											
Dec 2018	ZAGB	Future	0	18.1269	17.9300	18.0706	18.0706	48,963	886,590,605.50		
Mar 2019	ZAGB	Future	396,859	18.4106	18.2013	18.3905	18.3737	124	2,278,952.90		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Jun 2019	ZAGB	Future	5,764	18.6940	18.4799	0.0000	0.0000	660	12,112,356.00	
Sep 2019	ZAGB	Future	13,875	19.0022	18.7832	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	247	19.2984	19.0732	0.0000	0.0000	0	0.00	
			<u>416,745</u>					<u>49,747.00</u>	<u>900,981,914.40</u>	<u>13 782 327.00</u>
Option										
Mar 2019	ZAGB	18.00 Put	500	438.1557	522.8133	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	404.8462	335.7039	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	1128.1057	1276.8113	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	183.4585	149.3661	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	158.7344	128.3197	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	55.0562	43.9114	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>
		Total	423,245					49,747.00	900,981,914.40	15 565 440.00
Future										
Dec 2018	ZAJY	Future	0	0.1271	0.1250	0.0000	0.0000	6,905	87,769,455.00	
			<u>0</u>					<u>6,905.00</u>	<u>87,769,455.00</u>	<u>1 028 807.00</u>
		Total	0					6,905.00	87,769,455.00	1 028 807.00
Future										
Jun 2019	ZAKS	Future	2,166	0.1402	0.1364	0.0000	0.0000	0	0.00	
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>
		Total	2,166					0.00	0.00	38 066.00
Future										
Mar 2019	ZATR	Future	14,000	2.5689	2.5491	0.0000	0.0000	0	0.00	
			<u>14,000</u>					<u>0.00</u>	<u>0.00</u>	<u>409 239.00</u>
		Total	14,000					0.00	0.00	409 239.00
Future										
Mar 2019	ZAUM	Future	474	14.6002	14.3417	0.0000	0.0000	10	14,590,000.00	
			<u>474</u>					<u>10.00</u>	<u>14,590,000.00</u>	<u>155 140.00</u>
		Total	474					10.00	14,590,000.00	159 663.00
Future										
Dec 2018	ZAUS	Future	0	14.4425	14.1923	14.3866	14.2617	369,011	5,321,985,317.00	
Mar 2019	ZAUS	Future	481,901	14.6002	14.3417	14.6050	14.4157	94,049	1,366,467,320.40	
Jun 2019	ZAUS	Future	112,532	14.7610	14.4994	14.7325	14.7325	3,876	56,990,795.00	
Sep 2019	ZAUS	Future	14,244	14.9361	14.6710	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	Future	9,900	15.1046	14.8347	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	4,566	15.2973	15.0244	15.2293	15.2293	300	4,568,790.00	

<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>		
		623,143					467,236.00	6,750,012,222.40	193 149 385.00	2 325 852 491 461.40
Option										
Mar 2019	ZAUS	10.33 Put	1,000	0.7125	0.9406	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	11.74 Put	1,000	6.6271	8.9363	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.47 Put	721	20.1433	27.2597	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.51 Put	720	21.3799	28.9394	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.80 Put	6,332	32.7902	44.4446	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.90 Put	16,000	37.9334	51.4337	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.92 Put	139,342	39.0506	53.7219	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.00 Put	15,434	43.8414	63.7844	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.05 Put	1,155	47.1146	70.7645	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.12 Put	138,000	52.0896	81.4855	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.15 Put	10,125	54.3698	86.4354	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.25 Put	224,707	67.0624	104.5477	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.33 Put	135,043	78.7525	120.9192	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.36 Put	134,750	83.5084	127.5080	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.40 Put	2,100	90.1807	136.6874	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.46 Put	20,000	100.9161	151.3207	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.50 Put	2,550	108.5777	161.6663	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.55 Put	10,000	118.7372	175.2733	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.60 Put	6,570	129.5676	189.6465	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.62 Put	6,432	134.0907	195.6145	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.68 Put	14,200	148.3344	214.9458	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.70 Put	2,500	153.3096	221.8765	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.72 Put	10,000	158.4006	228.9446	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.75 Put	17,981	166.2586	239.8052	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.79 Put	262,812	177.1477	254.7717	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.85 Put	1,000	194.3967	278.2544	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.86 Put	721	197.5835	282.2891	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.90 Put	720	210.6681	298.7732	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.00 Call	100	845.9202	684.0932	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.00 Put	27,406	245.7202	342.3932	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.04 Put	7,100	260.6842	360.7994	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.20 Call	2,000	726.1529	581.4868	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.25 Call	750	698.3176	557.8979	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.28 Put	7,028	361.8168	482.4308	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.30 Call	250	671.3167	535.1149	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.35 Put	139,342	394.9411	521.4170	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.42 Put	2,100	429.6755	562.9345	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.44 Put	7,000	439.8888	575.0672	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.45 Put	1,000	445.0467	581.1798	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.46 Call	6,332	590.4336	469.0219	0.0000	0.0000	0	0.00	

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Mar 2019	ZAUS	14.48 Call	1,000	580.9061	461.3945	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	571.5058	453.8807	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	15,050	471.3058	612.1807	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	487.4404	631.1304	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	503.8565	650.3324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	555.5447	709.4329	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	610.2793	770.6725	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	448.2640	354.3319	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	654.4613	819.7107	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	660.8832	826.8133	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	667.3326	833.9397	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	673.8122	841.0896	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	381.2339	300.2545	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	808.8513	988.7809	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	851.2916	1034.7514	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	865.6256	1050.2324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	872.8255	1058.0030	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	332.0524	260.9679	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	916.5000	1105.0112	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	923.8550	1112.9113	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	318.8324	250.4627	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	311.1563	244.3707	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1013.7690	1209.0580	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	275.5105	216.1783	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	264.5882	207.5667	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	262.4592	205.8874	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	254.1151	199.3219	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	250.0474	196.1228	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	246.0479	192.9791	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	223.4233	175.2307	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	198.2103	155.4419	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	195.0863	152.8683	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	186.0297	145.4170	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	173.2917	134.9525	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	170.5922	132.7379	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	153.6079	119.2536	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	133.6914	103.8000	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	125.2850	97.2928	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	106.6545	82.8973	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	104.9622	81.5926	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	79.0353	61.6188	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	78.4244	61.1487	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	17.02 Call	262,812	75.4462	58.8574	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	72.0377	56.2355	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	71.4867	55.8118	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	70.9392	55.3917	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	64.2459	50.3749	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	60.9374	48.1182	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	52.5036	42.3437	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	37.6454	31.3803	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	29.3710	25.1961	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	4.8524	5.4034	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	32.8300	46.9761	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	73.2133	100.5667	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	103.4876	139.4866	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	159,628	106.5092	143.3264	0.0000	0.0000	7,525	0.00
Jun 2019	ZAUS	13.24 Put	30,000	148.1128	198.6190	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	308.3879	394.2895	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	325.7442	416.0204	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1143.2560	980.8264	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	369.8486	470.8146	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	398.9631	0.0000	0.0000	0.0000	39,589	0.00
Jun 2019	ZAUS	14.20 Put	6,800	456.3701	0.0000	0.0000	0.0000	6,800	0.00
Jun 2019	ZAUS	14.42 Call	30	904.1017	770.0815	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	829.0275	704.7334	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	675.7851	816.0805	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	687.0441	828.5272	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	727.4738	617.0101	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	624.7481	528.6289	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	554.4803	468.8566	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	143,900	503.1623	425.8742	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	472.2370	399.6839	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	467.2884	0.0000	0.0000	0.0000	79,178	0.00
Jun 2019	ZAUS	15.80 Call	1,000	429.7290	363.7796	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	410.1032	0.0000	0.0000	0.0000	6,800	0.00
Jun 2019	ZAUS	15.92 Call	911	403.7903	341.9152	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	387.4858	327.5694	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	725	370.0439	0.0000	0.0000	0.0000	725	0.00
Jun 2019	ZAUS	17.96 Call	8,203	146.0781	128.2497	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	9.8289	10.5082	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	60.8262	94.6935	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	211.6785	279.0186	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	427.4649	518.6774	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	450.7048	546.6697	0.0000	0.0000	0	0.00

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Sep 2019	ZAUS	14.09 Put	33,715	499.3769	604.9580	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	551.2409	666.2572	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	609.2032	730.4716	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1229.6223	1396.4729	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1353.3888	1527.5519	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	643.4848	563.6478	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	377.9048	329.8416	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	324.0014	284.3845	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	300.0696	268.2057	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	291.5380	262.4575	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	263.6694	239.1197	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	251.5934	228.8407	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	241.6680	220.3871	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	206.1715	176.7510	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	32.6821	36.5767	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	401.5982	483.2595	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	521.3614	463.8054	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	267.1389	226.9325	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	72.3016	88.5681	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	615.2685	718.5616	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	679.1274	614.6635	0.0000	0.0000	0	0.00		
			<u>4,926,278</u>					<u>140,617.00</u>	<u>0.00</u>	<u>63 828 220.00</u>	<u>0.00</u>
		Total	5,549,421					607,853.00	6,750,012,222.40	256 977 605.00	2 325 852 491 461.40
		Grand Total	7,043,281					729,878.00	8 718 139 403.50	351,338,598	3,231,360,585,297.93