



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 18-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
<b>Future</b>									
Jan 2019	DAEU	Future	4,830	16.3773	16.4194	0.0000	0.0000	0	0.00
Feb 2019	DAEU	Future	29	16.5070	16.5479	0.0000	0.0000	3	49,467.00
Mar 2019	DAEU	Future	53	16.5581	16.5996	0.0000	0.0000	0	0.00
			<u>4,912</u>					<u>3.00</u>	<u>49,467.00</u>
									<u>811 215.00</u>
									<u>12 127 077 435.00</u>
<b>Option</b>									
Dec 2018	DAEU	15.83 Put	32,000	11.1191	30.9578	0.0000	0.0000	0	0.00
Jan 2019	DAEU	15.85 Put	13,000	37.5797	49.9289	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	871.8370	861.0891	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	324.1494	340.0373	0.0000	0.0000	0	0.00
			<u>123,600</u>					<u>0.00</u>	<u>0.00</u>
		<b>Total</b>	<b>128,512</b>					<b>3.00</b>	<b>49,467.00</b>
									<b>2 321 802.00</b>
									<b>12 127 077 435.00</b>
<b>Future</b>									
Jan 2019	DAGB	Future	4,112	18.1938	18.2368	0.0000	0.0000	0	0.00
Jan 2019	DAGB	Future	27	18.2257	18.2678	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.3125	18.3545	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.4042	18.4462	0.0000	0.0000	0	0.00
			<u>4,266</u>					<u>0.00</u>	<u>0.00</u>
		<b>Total</b>	<b>4,266</b>					<b>0.00</b>	<b>0.00</b>
									<b>62 358.00</b>
									<b>1 041 064 928.30</b>
<b>Future</b>									
Dec 2018	DAUS	Future	1,175	14.3074	14.4441	0.0000	0.0000	1,300	18,566,025.00
Dec 2018	DAUS	Future	160	14.3074	14.4456	0.0000	0.0000	160	2,288,160.00
Dec 2018	DAUS	Future	285	14.3142	14.3125	0.0000	0.0000	285	4,077,382.50
Dec 2018	DAUS	Future	1,952	14.3171	14.4615	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.3213	14.4652	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	150	14.3481	14.4893	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.3501	14.4912	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,901	14.3605	14.5005	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	51	14.3678	14.5076	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>
Jan 2019	DAUS	Future	1,018	14.3766	14.5165	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,655	14.3784	14.5183	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	14.4013	14.5413	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	6	14.4048	14.5448	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	15	14.4226	14.5626	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	5,032	14.4279	14.5680	0.0000	0.0000	7	100,747.50
Mar 2019	DAUS	Future	74	14.4351	14.5752	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	80	14.4369	14.5770	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	14.4765	14.6166	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	4,356	14.4802	14.6203	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	14.4875	14.6276	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,580	14.5387	14.6788	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	875	14.5954	14.7354	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	74	14.6028	14.7427	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	505	14.6470	14.7869	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	14.6526	14.7925	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	14.7107	14.8503	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	14.7706	14.9100	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	74	14.7744	14.9137	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.8273	14.9666	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.8826	15.0222	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	14.9437	15.0835	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	321	14.9475	15.0873	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.0052	15.1449	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.0659	15.2046	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	15.1308	15.2685	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.1957	15.3323	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.2522	15.3879	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	15.3234	15.4580	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	15.4406	15.5733	0.0000	0.0000	0	0.00
			<u>110,930</u>					<u>1,752.00</u>	<u>25,032,315.00</u>
									<u>10 981 421.00</u>
									<u>134 928 170 761.20</u>
<b>Option</b>									
Dec 2018	DAUS	13.90 Put	35,000	5.1189	15.1627	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	9.5758	22.6820	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	81.2622	90.3357	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	596.4161	482.4507	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	992.9934	861.2661	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	0.2027	0.8724	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	0.3730	1.2735	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.10 Put	25,000	37.3782	47.1977	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	98.3810	0.0000	0.0000	0.0000	35,000	0.00
Dec 2018	DAUS	14.66 Call	1,000	20.7451	88.8116	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	14.75 Call	1,000	13.7053	66.3099	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	0.9612	2.6228	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	21.8905	18.8088	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	225.2331	351.2599	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	141.2432	120.8202	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	669.1449	571.4039	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	0.2373	0.9112	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	0.1538	0.4229	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	7.1208	14.6723	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	441.1874	584.1963	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	182.0321	296.7940	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	16.7624	23.5752	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	333.0015	461.5007	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	111.0176	189.0334	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	76.5087	66.8543	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	464.5648	589.5886	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	2.2260	2.3775	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	8.3828	8.3983	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	251.7867	218.0146	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	275.6583	238.8677	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	341.8039	436.7470	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	128.6802	176.9405	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	80.9091	115.7746	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	27.5432	29.6350	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	327.3572	289.0125	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	351.6492	310.8591	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	407.9722	492.5825	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	196.9137	246.9943	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	138.2576	176.6592	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	240.1580	211.2085	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	257.8491	313.4337	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	248.8030	218.8748	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	296.2015	261.1465	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	55.6842	53.4888	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	390.7128	347.1580	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	415.2751	369.6438	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	464.3858	539.5460	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	256.1494	304.4687	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	193.9473	232.7950	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	223.0037	197.3891	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	623.1373	712.7081	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	83.3980	76.4951	0.0000	0.0000	0	0.00

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Apr 2019	DAUS	13.49 Call	2,500	1227.9433	1346.6899	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	444.2150	396.8108	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	468.9100	419.7144	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	511.8924	580.8356	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	308.5158	354.7738	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	246.7097	285.3247	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	109.1964	97.6109	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	488.5008	438.8274	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	513.2746	461.9838	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	550.4522	614.9429	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	352.3529	396.6904	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	288.0529	326.5325	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	799.7476	733.6000	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	189.2639	214.8975	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	129.7802	113.5526	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	522.3336	471.9454	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	547.1801	495.2828	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	579.8155	641.4447	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	386.8304	430.0604	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	321.6165	361.0407	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	238.8828	212.7160	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	312.5994	350.4119	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	148.5922	129.5156	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	555.6081	505.6365	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	580.5457	529.1739	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	617.2135	677.2402	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	428.3348	471.5095	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	362.1173	401.8668	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	713.4701	656.7698	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	416.5977	458.8451	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	163.1083	143.6566	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	582.3098	532.9950	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	607.2888	556.6512	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	641.3589	699.8131	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	456.8274	500.6632	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	390.4975	429.6395	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	190.7841	206.4303	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	176.8437	153.7422	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	606.7560	558.1272	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	631.7170	581.8355	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	671.5324	728.7959	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	488.3823	533.1190	0.0000	0.0000	0	0.00

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Sep 2019	DAUS	16.89 Call	250	419.9602	459.2250	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	191.6222	168.1063	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	629.1471	583.2198	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	654.0737	605.4458	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	694.1134	750.3991	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	514.3589	558.6512	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	447.5694	487.1906	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	204.7759	181.3741	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	648.7485	605.4486	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	673.6202	627.8476	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	718.2805	774.0299	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	540.2189	584.8721	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	474.7409	514.7687	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	219.1199	197.6158	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	670.3429	630.3776	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	693.8806	653.0594	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	745.9840	805.1083	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	571.6789	619.8090	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	507.4832	550.7510	0.0000	0.0000	0	0.00		
				<u>554,655</u>				<u>35,000.00</u>	<u>0.00</u>	<u>22 142 231.00</u>	<u>0.00</u>
	<b>Total</b>		<b>665,585</b>					<b>36,752.00</b>	<b>25,032,315.00</b>	<b>33 123 652.00</b>	<b>134 928 170 761.20</b>
<b>Future</b>											
Jun 2019	EUUS	Future	582	1.1546	1.1464	0.0000	0.0000	0	0.00		
			<u>582</u>					<u>0.00</u>	<u>0.00</u>	<u>745 357.00</u>	<u>8 455 654 010.00</u>
	<b>Total</b>		<b>582</b>					<b>0.00</b>	<b>0.00</b>	<b>745 357.00</b>	<b>8 455 654 010.00</b>
<b>Future</b>											
Mar 2019	GBUS	Future	400	1.2703	1.2610	0.0000	0.0000	0	0.00		
			<u>400</u>					<u>0.00</u>	<u>0.00</u>	<u>171 207.00</u>	<u>2 202 856 108.00</u>
	<b>Total</b>		<b>400</b>					<b>0.00</b>	<b>0.00</b>	<b>171 207.00</b>	<b>2 202 856 108.00</b>
<b>Future</b>											
Mar 2019	ZAAD	Future	5,738	10.4252	10.4704	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	15,746	10.5553	10.6007	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.8360	10.8836	0.0000	0.0000	0	0.00		
			<u>21,884</u>					<u>0.00</u>	<u>0.00</u>	<u>3 840 564.00</u>	<u>33 637 375 385.00</u>
<b>Option</b>											
Dec 2019	ZAAD	11.00 Call	1,000	538.5014	575.0060	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>
	<b>Total</b>		<b>22,884</b>					<b>0.00</b>	<b>0.00</b>	<b>3 874 941.00</b>	<b>33 637 375 385.00</b>

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<b>Future</b>											
Mar 2019	ZACA	Future	500	10.8021	10.9304	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	11.0895	11.0871	0.0000	0.0000	0	0.00		
			<u>750</u>					<u>0.00</u>	<u>0.00</u>	<u>143 663.00</u>	<u>1 420 168 895.10</u>
	<b>Total</b>		<b>750</b>					<b>0.00</b>	<b>0.00</b>	<b>143 663.00</b>	<b>1 420 168 895.10</b>
<b>Future</b>											
Jun 2019	ZADK	Future	250	2.2739	2.2797	0.0000	0.0000	0	0.00		
			<u>250</u>					<u>0.00</u>	<u>0.00</u>	<u>13 125.00</u>	<u>283 029 589.00</u>
	<b>Total</b>		<b>250</b>					<b>0.00</b>	<b>0.00</b>	<b>13 125.00</b>	<b>283 029 589.00</b>
<b>Future</b>											
Mar 2019	ZAEU	Future	123,400	16.5687	16.6095	16.6702	16.5685	259	4,293,744.90		
Jun 2019	ZAEU	Future	24,250	16.8811	16.9227	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	9,596	17.2257	17.2677	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	Future	277	17.5561	17.6001	0.0000	0.0000	0	0.00		
			<u>157,523</u>					<u>259.00</u>	<u>4,293,744.90</u>	<u>16 027 390.00</u>	<u>231 301 807 880.70</u>
<b>Option</b>											
Mar 2019	ZAEU	16.00 Call	650	828.2147	872.1999	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	587.9322	609.2974	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	62.6745	64.5306	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	486.0709	479.7968	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	469.3982	485.4717	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>
	<b>Total</b>		<b>264,623</b>					<b>259.00</b>	<b>4,293,744.90</b>	<b>26 984 266.00</b>	<b>231 301 807 880.70</b>
<b>Future</b>											
Mar 2019	ZAFR	Future	1,143	14.7039	14.7698	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	14.9955	15.0628	0.0000	0.0000	0	0.00		
			<u>1,293</u>					<u>0.00</u>	<u>0.00</u>	<u>625 830.00</u>	<u>6 743 581 614.60</u>
	<b>Total</b>		<b>1,293</b>					<b>0.00</b>	<b>0.00</b>	<b>625 830.00</b>	<b>6 743 581 614.60</b>
<b>Future</b>											
Mar 2019	ZAGB	Future	396,861	18.3689	18.4106	18.4900	18.4900	2	36,980.00		
Jun 2019	ZAGB	Future	5,764	18.6510	18.6940	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	13,875	18.9590	19.0022	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	Future	247	19.2512	19.2984	0.0000	0.0000	0	0.00		
			<u>416,747</u>					<u>2.00</u>	<u>36,980.00</u>	<u>13 782 329.00</u>	<u>235 615 702 563.60</u>
<b>Option</b>											
Mar 2019	ZAGB	18.00 Put	500	434.2891	438.1557	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	372.9358	404.8462	0.0000	0.0000	0	0.00		

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Mar 2019	ZAGB	19.19 Put	1,000	1140.6260	1128.1057	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	164.3627	183.4585	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	141.4834	158.7344	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	46.3475	55.0562	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>
	<b>Total</b>		<b>423,247</b>					<b>2.00</b>	<b>36,980.00</b>	<b>15 565 442.00</b>
										<b>235 615 702 563.60</b>
<b>Future</b>										
Jun 2019	ZAKS	Future	2,166	0.1389	0.1402	0.0000	0.0000	0	0.00	
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</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>										
Mar 2019	ZATR	Future	14,000	2.5748	2.5689	0.0000	0.0000	0	0.00	
			<u>14,000</u>					<u>0.00</u>	<u>0.00</u>	<u>409 239.00</u>
	<b>Total</b>		<b>14,000</b>					<b>0.00</b>	<b>0.00</b>	<b>409 239.00</b>
										<b>1 293 087 569.00</b>
<b>Future</b>										
Mar 2019	ZAUM	Future	411	14.4602	14.6002	0.0000	0.0000	80	115,920,800.00	
			<u>411</u>					<u>80.00</u>	<u>115,920,800.00</u>	<u>155 220.00</u>
	<b>Total</b>		<b>411</b>					<b>80.00</b>	<b>115,920,800.00</b>	<b>159 743.00</b>
										<b>180 024 710 910.00</b>
<b>Future</b>										
Mar 2019	ZAUS	Future	476,351	14.4602	14.6002	14.5302	14.4162	30,551	442,278,394.80	
Jun 2019	ZAUS	Future	112,532	14.6210	14.7610	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	Future	14,244	14.7969	14.9361	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	Future	9,900	14.9647	15.1046	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	4,566	15.1601	15.2973	0.0000	0.0000	0	0.00	
			<u>677,593</u>					<u>30,551.00</u>	<u>442,278,394.80</u>	<u>193 179 936.00</u>
	<b>Total</b>									<b>2 326 294 769 856.20</b>
<b>Option</b>										
Mar 2019	ZAUS	10.33 Put	1,000	0.5688	0.7125	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	11.74 Put	1,000	6.5866	6.6271	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.47 Put	721	20.0221	20.1433	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.51 Put	720	21.2635	21.3799	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.80 Put	6,332	32.8108	32.7902	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.90 Put	16,000	38.0643	37.9334	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.92 Put	139,342	39.2093	39.0506	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.00 Put	15,434	44.1332	43.8414	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.05 Put	1,155	49.4688	47.1146	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.12 Put	138,000	57.8049	52.0896	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.15 Put	10,125	61.6905	54.3698	0.0000	0.0000	0	0.00	

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Mar 2019	ZAUS	13.25 Put	225,407	76.0954	67.0624	0.0000	0.0000	1,400	0.00
Mar 2019	ZAUS	13.33 Put	135,043	89.3308	78.7525	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	94.7087	83.5084	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	102.2467	90.1807	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	114.3626	100.9161	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	122.9959	108.5777	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	134.4314	118.7372	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	146.6041	129.5676	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	151.6830	134.0907	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	167.6525	148.3344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	173.2250	153.3096	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	178.9235	158.4006	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	187.7107	166.2586	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	200.7790	177.1477	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	221.4541	194.3967	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	225.0241	197.5835	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	239.6532	210.6681	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	738.9144	845.9202	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	30,606	278.7144	245.7202	0.0000	0.0000	3,200	0.00
Mar 2019	ZAUS	14.04 Put	7,100	295.3306	260.6842	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	627.6181	726.1529	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	601.9702	698.3176	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	406.7905	361.8168	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	577.1725	671.3167	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	0	416.9725	371.1167	0.0000	0.0000	9,688	0.00
Mar 2019	ZAUS	14.35 Put	139,342	443.0195	394.9411	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	480.8745	429.6755	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	491.9821	439.8888	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	497.5855	445.0467	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	503.5697	590.4336	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	495.2338	580.9061	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	487.0245	571.5058	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	15,050	526.8245	471.3058	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	544.7451	487.4404	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	562.9414	503.8565	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	619.1666	555.5447	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	677.7393	610.2793	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	378.2286	448.2640	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	724.8375	654.4613	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	731.6727	660.8832	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	738.5339	667.3326	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	745.4212	673.8122	0.0000	0.0000	0	0.00



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Mar 2019	ZAUS	15.00 Call	1,260	319.2038	381.2339	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	888.3501	808.8513	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	933.0392	851.2916	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	948.1089	865.6256	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	955.6756	872.8255	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	276.3271	332.0524	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1001.4642	916.5000	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1009.1643	923.8550	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	264.8216	318.8324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	258.1582	311.1563	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1103.0700	1013.7690	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	227.3422	275.5105	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	217.9432	264.5882	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	216.1139	262.4592	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	208.9549	254.1151	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	205.4687	250.0474	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	202.0465	246.0479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	182.7433	223.4233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	161.3601	198.2103	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	158.7199	195.0863	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	151.0825	186.0297	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	139.8606	173.2917	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	137.4745	170.5922	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	122.9786	153.6079	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	106.4296	133.6914	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	99.4821	125.2850	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	84.1726	106.6545	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	82.7899	104.9622	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	61.7252	79.0353	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	61.2330	78.4244	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	58.8329	75.4462	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	56.0910	72.0377	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	55.6479	71.4867	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	55.2088	70.9392	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	49.8455	64.2459	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	47.2034	60.9374	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	40.4612	52.5036	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	27.9259	37.6454	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	21.0993	29.3710	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	4.5931	4.8524	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	37.0087	32.8300	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	82.6723	73.2133	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	12.98 Put	911	116.7208	103.4876	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	120.1087	106.5092	0.0000	0.0000	6,075	0.00
Jun 2019	ZAUS	13.24 Put	30,000	167.7354	148.1128	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	343.8334	308.3879	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	363.3678	325.7442	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1046.3720	1143.2560	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	414.0853	369.8486	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	445.3918	398.9631	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	506.8401	456.3701	0.0000	0.0000	6,800	0.00
Jun 2019	ZAUS	14.42 Call	30	821.3603	904.1017	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	751.1135	829.0275	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	739.4519	675.7851	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	751.3709	687.0441	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	657.1276	727.4738	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	562.3265	624.7481	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	497.8353	554.4803	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	143,900	451.5546	503.1623	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	423.4335	472.2370	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	418.9380	467.2884	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	384.8772	429.7290	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	367.1178	410.1032	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	361.4073	403.7903	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	346.6821	387.4858	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	330.4085	370.0439	0.0000	0.0000	6,075	0.00
Jun 2019	ZAUS	17.96 Call	8,203	131.3735	146.0781	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	9.1930	9.8289	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	71.8140	60.8262	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	240.4582	211.6785	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	465.0516	427.4649	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	489.7071	450.7048	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	542.3976	499.3769	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	600.4205	551.2409	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	661.4508	609.2032	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1306.0346	1229.6223	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1433.6848	1353.3888	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	591.1146	643.4848	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	344.0168	377.9048	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	294.5274	324.0014	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	274.7492	300.0696	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	268.5936	291.5380	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	243.6207	263.6694	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	232.6278	251.5934	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>	
Sep 2019	ZAUS	18.63 Call	33,715	223.5973	241.6680	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	19.32 Call	33,151	187.8644	206.1715	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	11.89 Put	1,000	29.8957	32.6821	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	13.66 Put	1,000	433.4108	401.5982	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38 Call	1,000	481.6462	521.3614	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	237.6537	267.1389	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	11.91 Put	1,000	62.3047	72.3016	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	14.01 Put	1,000	632.5762	615.2685	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	17.73 Call	1,000	613.8897	679.1274	0.0000	0.0000	0	0.00	
			<u>4,949,128</u>					<u>33,238.00</u>	<u>0.00</u>	<u>63 861 458.00</u>
		<b>Total</b>	<b>5,566,721</b>					<b>63,789.00</b>	<b>442,278,394.80</b>	<b>257 041 394.00</b>
										<b>2 326 294 769 856.20</b>

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<b>Grand Total</b>	<b>7,095,690</b>	<b>100,885.00</b>	<b>587 611 701.70</b>	<b>351,439,483</b>	<b>3,231,948,196,999.63</b>
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