



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 19-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Jan 2019	DAEU	Future	4,830	16.2551	16.3773	0.0000	0.0000	0	0.00		
Feb 2019	DAEU	Future	29	16.3811	16.5070	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	16.4315	16.5581	0.0000	0.0000	0	0.00		
			<u>4,912</u>					<u>0.00</u>	<u>0.00</u>	<u>811 215.00</u>	<u>12 127 077 435.00</u>
Option											
Dec 2018	DAEU	15.83 Put	32,000	10.1553	11.1191	0.0000	0.0000	0	0.00		
Jan 2019	DAEU	15.85 Put	13,000	57.5316	37.5797	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	16,200	937.6331	871.8370	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	299.0752	324.1494	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		128,512					0.00	0.00	2 321 802.00	12 127 077 435.00
Future											
Jan 2019	DAGB	Future	4,112	17.9982	18.1938	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	27	18.0294	18.2257	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	18.1131	18.3125	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.2032	18.4042	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	1,175	14.1243	14.3074	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	160	14.1243	14.3074	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	285	14.1287	14.3142	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	1,952	14.1319	14.3171	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.1341	14.3213	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	324	14.1638	14.3481	0.0000	0.0000	174	2,495,438.40		
Jan 2019	DAUS	Future	20	14.1661	14.3501	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,901	14.1775	14.3605	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	14.1849	14.3678	0.0000	0.0000	0	0.00		

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Jan 2019	DAUS	Future	1,018	14.1934	14.3766	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,655	14.1951	14.3784	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	14.2172	14.4013	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	6	14.2206	14.4048	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	15	14.2377	14.4226	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	5,120	14.2429	14.4279	0.0000	0.0000	88	1,268,652.00
Mar 2019	DAUS	Future	74	14.2497	14.4351	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	80	14.2515	14.4369	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	14.2900	14.4765	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	4,356	14.2937	14.4802	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	14.3011	14.4875	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,580	14.3531	14.5387	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	875	14.4106	14.5954	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	74	14.4180	14.6028	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	505	14.4624	14.6470	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	14.4679	14.6526	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	14.5250	14.7107	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	14.5838	14.7706	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	74	14.5875	14.7744	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.6396	14.8273	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.6950	14.8826	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	14.7562	14.9437	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	321	14.7600	14.9475	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.8174	15.0052	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.8787	15.0659	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	14.9442	15.1308	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.0097	15.1957	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.0667	15.2522	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	15.1385	15.3234	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	15.2568	15.4406	0.0000	0.0000	0	0.00
			<u>111,192</u>					<u>262.00</u>	<u>3,764,090.40</u>
									<u>10 981 683.00</u>
									<u>134 931 934 851.60</u>
Option									
Dec 2018	DAUS	13.90 Put	35,000	17.5670	5.1189	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	31.6511	9.5758	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	205.5816	81.2622	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	776.3889	596.4161	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1175.7465	992.9934	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	0.3321	0.2027	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	0.5781	0.3730	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.10 Put	25,000	82.3267	37.3782	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	215.7720	98.3810	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	5.9409	20.7451	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	3.7086	13.7053	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	1.2724	0.9612	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	47.9285	21.8905	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	125.4867	225.2331	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	232.7746	141.2432	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	838.5601	669.1449	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	0.0598	0.2373	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	0.0998	0.1538	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	18.7607	7.1208	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	300.5961	441.1874	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	104.9908	182.0321	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	34.7274	16.7624	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	219.7065	333.0015	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	63.9503	111.0176	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	123.9597	76.5087	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	341.4916	464.5648	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	3.9114	2.2260	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	16.2354	8.3828	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	334.4272	251.7867	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	363.4368	275.6583	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	259.3283	341.8039	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	90.6846	128.6802	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	55.4982	80.9091	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	42.5930	27.5432	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	410.4374	327.3572	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	437.8259	351.6492	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	329.0212	407.9722	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	152.8496	196.9137	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	105.9148	138.2576	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	307.3523	240.1580	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	205.7412	257.8491	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	313.6923	248.8030	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	367.7199	296.2015	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	74.2811	55.6842	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	473.0780	390.7128	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	500.2873	415.2751	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	386.8022	464.3858	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	208.8095	256.1494	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	156.8895	193.9473	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	280.9563	223.0037	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	527.0272	623.1373	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	104.6384	83.3980	0.0000	0.0000	0	0.00

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Apr 2019	DAUS	13.49 Call	2,500	1085.3872	1227.9433	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	524.5959	444.2150	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	551.6734	468.9100	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	436.7056	511.8924	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	260.0954	308.5158	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	205.8838	246.7097	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	133.6192	109.1964	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	567.2311	488.5008	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	594.1687	513.2746	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	477.3330	550.4522	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	303.5178	352.3529	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	245.2074	288.0529	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	898.3617	799.7476	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	161.7551	189.2639	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	157.9687	129.7802	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	600.6863	522.3336	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	627.5470	547.1801	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	508.9301	579.8155	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	337.1888	386.8304	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	278.1061	321.6165	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	283.9185	238.8828	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	270.8409	312.5994	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	183.3832	148.5922	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	635.6696	555.6081	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	662.5061	580.5457	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	549.1321	617.2135	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	377.4663	428.3348	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	318.4646	362.1173	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	804.4078	713.4701	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	368.1390	416.5977	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	201.5284	163.1083	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	663.4502	582.3098	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	690.2020	607.2888	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	576.0730	641.3589	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	407.0603	456.8274	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	347.5052	390.4975	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	174.7518	190.7841	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	218.4417	176.8437	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	687.7397	606.7560	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	714.4102	631.7170	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	607.1372	671.5324	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	438.3536	488.3823	0.0000	0.0000	0	0.00

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Sep 2019	DAUS	16.89 Call	250	376.3896	419.9602	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	235.9535	191.6222	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	711.1941	629.1471	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	737.7632	654.0737	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	632.2641	694.1134	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	465.7494	514.3589	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	405.2078	447.5694	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	251.0167	204.7759	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	730.7873	648.7485	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	757.2588	673.6202	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	658.0596	718.2805	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	492.8548	540.2189	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	433.1416	474.7409	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	268.9153	219.1199	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	750.9438	670.3429	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	777.3071	693.8806	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	686.4317	745.9840	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	524.5719	571.6789	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	465.7589	507.4832	0.0000	0.0000	0	0.00		
			<u>554,655</u>					0.00	0.00	22 142 231.00	0.00
Total			665,847					262.00	3,764,090.40	33 123 914.00	134 931 934 851.60
Future											
Jun 2019	EUUS	Future	582	1.1606	1.1546	0.0000	0.0000	0	0.00		
			<u>582</u>					0.00	0.00	745 357.00	8 455 654 010.00
Total			582					0.00	0.00	745 357.00	8 455 654 010.00
Future											
Mar 2019	GBUS	Future	400	1.2728	1.2703	0.0000	0.0000	0	0.00		
			<u>400</u>					0.00	0.00	171 207.00	2 202 856 108.00
Total			400					0.00	0.00	171 207.00	2 202 856 108.00
Future											
Mar 2019	ZAAD	Future	5,488	10.2780	10.4252	10.3824	10.3824	250	2,595,600.00		
Jun 2019	ZAAD	Future	15,746	10.4092	10.5553	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.6869	10.8360	0.0000	0.0000	0	0.00		
			<u>21,634</u>					250.00	2,595,600.00	3 840 814.00	33 639 970 985.00
Option											
Dec 2019	ZAAD	11.00 Call	1,000	476.6174	538.5014	0.0000	0.0000	0	0.00		
			<u>1,000</u>					0.00	0.00	34 377.00	0.00
Total			22,634					250.00	2,595,600.00	3 875 191.00	33 639 970 985.00

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Future											
Mar 2019	ZACA	Future	500	10.6483	10.8021	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	10.9339	11.0895	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>
	Total		750					0.00	0.00	143 663.00	1 420 168 895.10
Future											
Jun 2019	ZADK	Future	0	2.2575	2.2739	2.2640	2.2640	250	5,660,000.00		
			<u>0</u>					<u>250.00</u>	<u>5,660,000.00</u>	<u>13 375.00</u>	<u>288 689 589.00</u>
	Total		0					250.00	5,660,000.00	13 375.00	288 689 589.00
Future											
Mar 2019	ZAEU	Future	123,425	16.4411	16.5687	16.6131	16.4571	325	5,352,457.50		
Jun 2019	ZAEU	Future	24,250	16.7552	16.8811	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	9,596	17.0930	17.2257	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	Future	277	17.4222	17.5561	0.0000	0.0000	0	0.00		
			<u>157,548</u>					<u>325.00</u>	<u>5,352,457.50</u>	<u>16 027 715.00</u>	<u>231 307 160 338.20</u>
Option											
Mar 2019	ZAEU	16.00 Call	650	743.6045	828.2147	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	547.0475	587.9322	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	67.2657	62.6745	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	529.3160	486.0709	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	441.4877	469.3982	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		264,648					325.00	5,352,457.50	26 984 591.00	231 307 160 338.20
Future											
Mar 2019	ZAFR	Future	1,143	14.5259	14.7039	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	14.8178	14.9955	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>
	Total		1,293					0.00	0.00	625 830.00	6 743 581 614.60
Future											
Mar 2019	ZAGB	Future	397,701	18.1679	18.3689	18.3125	18.3125	841	15,350,412.50		
Jun 2019	ZAGB	Future	5,764	18.4524	18.6510	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	13,875	18.7545	18.9590	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	Future	247	19.0469	19.2512	0.0000	0.0000	0	0.00		
			<u>417,587</u>					<u>841.00</u>	<u>15,350,412.50</u>	<u>13 783 170.00</u>	<u>235 631 052 976.10</u>
Option											
Mar 2019	ZAGB	18.00 Put	500	512.1300	434.2891	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	305.1750	372.9358	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Mar 2019	ZAGB	19.19 Put	1,000	1282.6376	1140.6260	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	20.00 Call	500	131.3066	164.3627	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	20.18 Call	1,500	111.9542	141.4834	0.0000	0.0000	0	0.00
Mar 2019	ZAGB	21.44 Call	500	36.3179	46.3475	0.0000	0.0000	0	0.00
			6,500					0.00	0.00
		Total	424,087					841.00	15,350,412.50
									15 566 283.00
									235 631 052 976.10
Future									
Jun 2019	ZAKS	Future	2,166	0.1372	0.1389	0.0000	0.0000	0	0.00
			2,166					0.00	0.00
		Total	2,166					0.00	0.00
									38 066.00
									515 662 000.00
Future									
Mar 2019	ZATR	Future	14,000	2.5786	2.5748	0.0000	0.0000	0	0.00
			14,000					0.00	0.00
		Total	14,000					0.00	0.00
									409 239.00
									1 293 087 569.00
Future									
Mar 2019	ZAUM	Future	434	14.2738	14.4602	0.0000	0.0000	40	57,720,000.00
			434					40.00	57,720,000.00
		Total	434					40.00	57,720,000.00
									155 260.00
									180 082 430 910.00
Future									
Mar 2019	ZAUS	Future	473,468	14.2738	14.4602	14.4725	14.2710	11,192	161,414,075.10
Jun 2019	ZAUS	Future	112,532	14.4366	14.6210	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	Future	14,244	14.6096	14.7969	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	Future	9,900	14.7772	14.9647	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	Future	4,566	14.9738	15.1601	0.0000	0.0000	0	0.00
			614,710					11,192.00	161,414,075.10
		Total							193 191 128.00
									2 326 456 183 931.30
Option									
Mar 2019	ZAUS	10.33 Put	1,000	0.7360	0.5688	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	8.4521	6.5866	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	25.4200	20.0221	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	26.9849	21.2635	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	6,332	41.5318	32.8108	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	50.1373	38.0643	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	52.4536	39.2093	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	62.5538	44.1332	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	69.5835	49.4688	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	80.4100	57.8049	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	85.4182	61.6905	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	13.25 Put	225,407	103.7954	76.0954	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	120.4598	89.3308	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	127.1807	94.7087	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	136.5533	102.2467	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	151.5174	114.3626	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	162.1097	122.9959	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	176.0617	134.4314	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	191.7954	146.6041	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	198.3355	151.6830	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	218.8017	167.6525	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	225.9072	173.2250	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	233.1550	178.9235	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	244.2966	187.7107	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	259.6486	200.7790	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	283.7490	221.4541	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	287.8909	225.0241	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	304.8178	239.6532	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	623.4167	738.9144	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	30,606	349.6167	278.7144	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	368.5270	295.3306	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	523.5015	627.6181	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	500.6482	601.9702	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	494.0607	406.7905	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	479.4983	577.1725	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	535.3576	443.0195	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	578.2073	480.8745	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	590.7259	491.9821	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	597.0319	497.5855	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	417.1651	503.5697	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	409.9236	495.2338	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	402.8027	487.0245	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	15,050	629.0027	526.8245	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	648.5366	544.7451	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	668.3253	562.9414	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	729.1971	619.1666	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	792.2163	677.7393	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	309.1564	378.2286	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	842.6324	724.8375	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	849.9321	731.6727	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	857.2528	738.5339	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	864.5995	745.4212	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	259.0058	319.2038	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	15.04 Put	63,500	1016.2209	888.3501	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1063.3392	933.0392	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1079.1977	948.1089	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1087.1549	955.6756	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	222.9696	276.3271	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1135.2836	1001.4642	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1143.3670	1009.1643	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	213.3884	264.8216	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	207.8451	258.1582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1241.6915	1103.0700	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	182.3145	227.3422	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	174.5609	217.9432	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	173.0524	216.1139	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	167.1562	208.9549	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	164.2912	205.4687	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	161.4770	202.0465	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	145.6513	182.7433	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	127.5672	161.3601	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	125.3114	158.7199	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	118.7906	151.0825	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	109.6736	139.8606	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	107.7505	137.4745	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	96.0922	122.9786	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	82.8491	106.4296	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	77.3131	99.4821	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	65.1635	84.1726	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	64.0693	82.7899	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	47.4868	61.7252	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	47.1006	61.2330	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	45.2212	58.8329	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	43.0771	56.0910	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	42.7312	55.6479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	42.3885	55.2088	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	38.2046	49.8455	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	36.1491	47.2034	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	30.9408	40.4612	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	21.3254	27.9259	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	16.1173	21.0993	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	5.3346	4.5931	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	48.8466	37.0087	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	103.1839	82.6723	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	142.5249	116.7208	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	13.00 Put	165,703	146.4058	120.1087	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	203.5940	167.7354	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	404.6594	343.8334	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	426.8711	363.3678	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	929.8504	1046.3720	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	482.8351	414.0853	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	517.1916	445.3918	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	584.2588	506.8401	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	723.6624	821.3603	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	660.2823	751.1135	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	835.0427	739.4519	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	847.7356	751.3709	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	575.4857	657.1276	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	490.4641	562.3265	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	433.7102	497.8353	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	143,900	392.8008	451.5546	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	367.9454	423.4335	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	363.9770	418.9380	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	333.9566	384.8772	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	318.3350	367.1178	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	313.0503	361.4073	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	299.1002	346.6821	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	284.2017	330.4085	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	113.9209	131.3735	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	9.9261	9.1930	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	96.8997	71.8140	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	286.4713	240.4582	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	532.1151	465.0516	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	560.5677	489.7071	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	619.7860	542.3976	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	682.0145	600.4205	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	747.1596	661.4508	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1422.0276	1306.0346	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1554.7690	1433.6848	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	532.0838	591.1146	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	307.0505	344.0168	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	265.8369	294.5274	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	250.3829	274.7492	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	244.8980	268.5936	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	222.6405	243.6207	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	212.8502	232.6278	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	33,715	204.8045	223.5973	0.0000	0.0000	0	0.00

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Sep 2019	ZAUS	19.32 Call	33,151	161.1763	187.8644	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	40.6290	29.8957	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	494.7012	433.4108	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	17.38 Call	1,000	440.6590	481.6462	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	20.00 Call	2,000	210.3585	237.6537	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	11.91 Put	1,000	71.8975	62.3047	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	14.01 Put	1,000	703.5483	632.5762	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	17.73 Call	1,000	569.2014	613.8897	0.0000	0.0000	0	0.00
			<u>4,949,128</u>					<u>0.00</u>	<u>0.00</u>
		Total	5,563,838					11,192.00	161,414,075.10
									257,052,586.00
									2,326,456,183,931.30

Grand Total	7,093,457							13,160.00	251,856,635.50	351,452,643	3,232,200,053,635.13
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