



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 05-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Feb 2019	DAEU	Future	26	15.9154	15.8980	0.0000	0.0000	0	0.00		
			26					0.00	0.00	801 499.00	11 968 723 606.50
Option											
Dec 2018	DAEU	15.83 Put	32,000	291.5420	298.2467	0.0000	0.0000	0	0.00		
Jan 2019	DAEU	15.85 Put	13,000	326.9455	330.7856	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	16,200	1217.6772	1221.0241	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	233.4222	225.7031	0.0000	0.0000	0	0.00		
			123,600					0.00	0.00	1 510 587.00	0.00
		Total	123,626					0.00	0.00	2 312 086.00	11 968 723 606.50
Future											
Jan 2019	DAGB	Future	27	17.7313	17.6604	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	17.8160	17.7445	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	24	17.9058	17.8336	0.0000	0.0000	0	0.00		
			98					0.00	0.00	54 078.00	891 295 207.50
		Total	98					0.00	0.00	261 391.00	891 295 207.50
Future											
Dec 2018	DAUS	Future	0	13.8080	13.7153	0.0000	0.0000	23,000	317,584,000.00		
Dec 2018	DAUS	Future	500	13.8096	13.7154	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	13.8161	13.7229	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	160	13.8309	13.7372	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	1,952	13.8473	13.7532	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.8506	13.7564	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	150	13.8724	13.7777	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	20	13.8741	13.7793	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	13.8892	13.7942	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.8977	13.8025	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,263	13.8993	13.8042	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.9214	13.8260	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>		
Feb 2019	DAUS	Future	6	13.9248	13.8294	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	13.9418	13.8463	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,025	13.9469	13.8514	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	13.9554	13.8598	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.9934	13.8972	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	13.9968	13.9006	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.0037	13.9074	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.0521	13.9550	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	225	14.1056	14.0077	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	170	14.1544	14.0558	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.1596	14.0609	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.2137	14.1143	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.2696	14.1694	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3228	14.2216	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3744	14.2723	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.4313	14.3282	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.4897	14.3855	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.5452	14.4395	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.6045	14.4973	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.6638	14.5550	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.7154	14.6053	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.7804	14.6687	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.8875	14.7730	0.0000	0.0000	0	0.00		
			<u>108,551</u>					<u>23,000.00</u>	<u>317,584,000.00</u>	<u>10 936 838.00</u>	<u>134 297 005 826.50</u>

Option

Dec 2018	DAUS	13.75 Put	65,000	31.6260	88.9295	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	115.9622	204.5392	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	491.3419	586.3021	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	1090.4280	1184.7352	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1490.4079	1584.7124	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.50 Put	25,000	8.3802	21.5331	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	125	52.1454	103.9619	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	15.8286	11.4205	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	1.2753	1.1065	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	62.6087	87.1087	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	147.6291	206.2359	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	0.9743	0.6382	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	0.1350	0.0874	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	228.9024	281.0609	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	279.8617	338.0126	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	524.7639	601.2882	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	1080.1315	1170.4689	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	15.30 Put	35,000	1473.8103	1566.4825	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	15.8539	22.9059	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	26.8246	37.4812	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	21.4488	14.3258	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	16.5485	10.9735	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	16.5212	18.2251	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	210.1287	253.6202	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	111.7794	86.3864	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	507.7451	577.7769	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	1134.3399	1222.2452	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	0.7788	0.7436	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	0.9803	0.9622	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	123.8669	151.9941	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	215.0837	173.3849	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	96.7852	75.3109	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	162.5044	194.5599	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	169.0944	136.0564	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	64.5566	49.9125	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	293.3585	0.0000	0.0000	0.0000	174	0.00
Jan 2019	DAUS	14.00 Call	174	248.9755	0.0000	0.0000	0.0000	174	0.00
Jan 2019	DAUS	12.66 Put	263	14.8409	17.7313	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	55.7537	65.2916	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	550.7583	608.2355	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	585.6700	645.0199	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	199.6549	168.4746	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	76.6357	62.8867	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	48.5303	38.0195	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	94.5410	104.2886	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	605.3298	656.4934	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	638.7445	691.5706	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	258.3239	223.9620	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	125.5926	107.0412	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	88.3765	74.4502	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	462.1379	498.6167	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	528.0968	569.8744	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	131.8689	143.0610	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	654.6365	702.2947	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	687.0095	736.1388	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	310.1884	274.4831	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	171.8495	149.6954	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	129.0511	111.8016	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	416.3432	448.9470	0.0000	0.0000	0	0.00

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Apr 2019	DAUS	14.35 Call	100	422.6110	377.4148	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	167.8127	179.8843	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	890.2966	818.1306	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	697.3607	742.1517	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	728.8935	775.0093	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	355.1736	318.5087	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	213.7496	188.9597	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	168.8830	148.6471	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	200.5165	212.8879	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	733.6606	776.0391	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	764.5424	808.1388	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	392.6813	355.4648	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	249.2324	222.8886	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	201.6551	179.5318	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1097.3718	1151.1256	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	140.0395	127.4497	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	226.7534	240.4176	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	763.4087	805.4082	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	793.8450	837.0005	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	423.4788	387.1761	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	279.1940	252.7476	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	231.1508	208.6124	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	383.3605	408.1918	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	225.5563	203.8068	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	254.8511	269.9380	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	794.2659	835.8107	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	824.2593	866.8835	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	460.3314	424.3955	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	314.6253	287.7760	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	266.1133	242.8885	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	978.1489	1025.2857	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	308.0083	281.9981	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	278.4192	295.2531	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	818.6313	860.8776	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	848.4808	891.5212	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	485.3078	450.8631	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	340.8287	314.2437	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	291.5656	268.4373	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	137.9074	122.0070	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	300.8313	318.7185	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	840.8294	883.0891	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	870.4455	913.3471	0.0000	0.0000	0	0.00

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Sep 2019	DAUS	15.68 Call	500	514.8942	479.6768	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	370.0299	343.1235	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	318.4595	294.9905	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	322.8132	341.4906	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	861.9588	904.2059	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	891.3733	934.5019	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	537.4508	502.2907	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	394.8133	367.9098	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	344.1763	320.4020	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	342.0461	361.2383	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	878.7810	921.7716	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	908.0027	951.8351	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	560.5992	525.4176	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	418.5564	392.1290	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	368.1513	347.2215	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	358.0182	380.5579	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	898.9905	940.7127	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	928.0293	970.5863	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	588.7496	553.7452	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	449.7505	422.2741	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	400.6166	378.1416	0.0000	0.0000	0	0.00		
			<u>705,030</u>					<u>348.00</u>	<u>0.00</u>	<u>21 977 231.00</u>	<u>0.00</u>
Total			813,581					23,348.00	317,584,000.00	32 914 069.00	134 297 005 826.50
Future											
Dec 2018	EUUS	Future	55	1.1332	1.1396	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1519	1.1586	0.0000	0.0000	0	0.00		
			<u>637</u>					<u>0.00</u>	<u>0.00</u>	<u>745 292.00</u>	<u>8 454 920 115.00</u>
Total			637					0.00	0.00	745 292.00	8 454 920 115.00
Future											
Dec 2018	GBUS	Future	250	1.2721	1.2756	1.2792	1.2791	8	102,331.00		
			<u>250</u>					<u>8.00</u>	<u>102,331.00</u>	<u>170 247.00</u>	<u>2 190 752 058.00</u>
Total			250					8.00	102,331.00	170 247.00	2 190 752 058.00
Future											
Dec 2018	ZAAD	Future	19,842	10.0526	10.1192	0.0000	0.0000	0	0.00		
Mar 2019	ZAAD	Future	324	10.1853	10.2515	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,934	10.3134	10.3794	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.5887	10.6538	0.0000	0.0000	0	0.00		
			<u>25,500</u>					<u>0.00</u>	<u>0.00</u>	<u>3 775 639.00</u>	<u>32 960 756 746.50</u>

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Option										
Dec 2019	ZAAD	11.00 Call	1,000	447.4651	466.5844	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>
			Total	26,500				0.00	0.00	3 810 016.00
										32 960 756 746.50
Future										
Dec 2018	ZACA	Future	950	10.4029	10.3947	10.3800	10.3800	100	1,038,000.00	
Mar 2019	ZACA	Future	250	10.5455	10.5345	10.5178	10.5178	100	1,051,780.00	
Sep 2019	ZACA	Future	250	10.6965	10.6808	0.0000	0.0000	0	0.00	
			<u>1,450</u>					<u>200.00</u>	<u>2,089,780.00</u>	<u>141 613.00</u>
			Total	1,450				200.00	2,089,780.00	141 613.00
										1 398 119 665.10
Future										
Dec 2018	ZADK	Future	140	2.1071	2.1048	0.0000	0.0000	0	0.00	
Jun 2019	ZADK	Future	250	2.1920	2.1893	0.0000	0.0000	0	0.00	
			<u>390</u>					<u>0.00</u>	<u>0.00</u>	<u>12 685.00</u>
			Total	390				0.00	0.00	12 685.00
										273 417 109.00
Future										
Dec 2018	ZAEU	Future	118,877	15.6601	15.6424	15.7556	15.6240	585	9,165,498.40	
Mar 2019	ZAEU	Future	37,567	15.9760	15.9583	16.0467	15.9779	3	47,934.90	
Jun 2019	ZAEU	Future	5,042	16.2767	16.2577	16.3652	16.3652	100	1,632,520.00	
Sep 2019	ZAEU	Future	8,596	16.6081	16.5875	16.6955	16.6955	0	0.00	
Dec 2019	ZAEU	Future	277	16.9238	16.8998	0.0000	0.0000	0	0.00	
			<u>170,359</u>					<u>688.00</u>	<u>10,845,953.30</u>	<u>15 739 195.00</u>
										226 595 159 632.40
Option										
Mar 2019	ZAEU	16.00 Call	650	509.7188	493.9849	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	428.7710	418.1376	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	89.1651	88.7503	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	694.9016	697.0515	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	373.5594	364.6474	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>
			Total	277,459				688.00	10,845,953.30	26 696 071.00
										226 595 159 632.40
Future										
Dec 2018	ZAFR	Future	1,166	13.8309	13.7988	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	14.4056	14.3710	0.0000	0.0000	0	0.00	
			<u>1,316</u>					<u>0.00</u>	<u>0.00</u>	<u>621 358.00</u>
			Total	1,316				0.00	0.00	621 358.00
										6 678 940 122.80
Future										

<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	ZAGB	Future	417,708	17.5800	17.5092	17.6200	17.5992	29	510,524.90		
Mar 2019	ZAGB	Future	12,473	17.8715	17.7996	17.8357	17.8357	3	53,507.10		
Jun 2019	ZAGB	Future	5,539	18.1456	18.0712	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	12,350	18.4436	18.3674	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	Future	247	18.7287	18.6495	0.0000	0.0000	0	0.00		
			<u>448,317</u>					<u>32.00</u>	<u>564,032.00</u>	<u>12 947 308.00</u>	<u>220 472 513 050.00</u>
Option											
Dec 2018	ZAGB	19.30 Call	200	3.6149	2.5008	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	704.9992	726.3122	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	265.3389	235.5040	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1546.6849	1591.7433	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	117.5150	99.8329	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	100.9119	84.7177	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	35.0520	27.9147	0.0000	0.0000	0	0.00		
			<u>6,700</u>					<u>0.00</u>	<u>0.00</u>	<u>1 783 113.00</u>	<u>0.00</u>
	Total		455,017					32.00	564,032.00	14 730 421.00	220 472 513 050.00
Future											
Dec 2018	ZAJY	Future	6,905	0.1222	0.1217	0.0000	0.0000	0	0.00		
			<u>6,905</u>					<u>0.00</u>	<u>0.00</u>	<u>1 021 902.00</u>	<u>11 470 576 312.50</u>
	Total		6,905					0.00	0.00	1 021 902.00	11 470 576 312.50
Future											
Jun 2019	ZAKS	Future	2,166	0.1333	0.1321	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											
Mar 2019	ZATR	Future	14,000	2.4773	2.4171	0.0000	0.0000	0	0.00		
			<u>14,000</u>					<u>0.00</u>	<u>0.00</u>	<u>409 239.00</u>	<u>1 293 087 569.00</u>
	Total		14,000					0.00	0.00	409 239.00	1 293 087 569.00
Future											
Dec 2018	ZAUM	Future	394	13.8193	13.7260	13.7896	13.7896	52	71,803,920.00		
Mar 2019	ZAUM	Future	10	13.9778	13.8819	0.0000	0.0000	0	0.00		
			<u>404</u>					<u>52.00</u>	<u>71,803,920.00</u>	<u>154 138.00</u>	<u>178 470 265 650.00</u>
	Total		404					52.00	71,803,920.00	158 661.00	178 470 265 650.00
Future											
Dec 2018	ZAUS	Future	627,970	13.8193	13.7260	13.9009	13.7551	80,491	1,110,757,155.20		
Mar 2019	ZAUS	Future	78,482	13.9778	13.8819	14.0500	13.9100	7,541	105,567,294.90		

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Jun 2019	ZAUS	Future	22,838	14.1299	14.0317	0.0000	0.0000	1,991	28,113,517.30
Sep 2019	ZAUS	Future	14,094	14.2943	14.1937	14.3800	14.3759	0	0.00
Dec 2019	ZAUS	Future	9,600	14.4515	14.3482	14.5520	14.5492	0	0.00
Mar 2020	ZAUS	Future	3,966	14.6312	14.5234	0.0000	0.0000	0	0.00
			<u>756,950</u>					<u>90,023.00</u>	<u>1,244,437,967.40</u>
									<u>190 690 047.00</u>
									<u>2 290 688 232 070.20</u>

Option

Dec 2018	ZAUS	11.64 Put	2,764	0.0000	0.0337	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.0001	0.0463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.0008	0.0723	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.0030	0.0982	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.0039	0.1045	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	0.0104	0.1344	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	0.0323	0.1856	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	0.0548	0.2189	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	0.1946	0.3400	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1319.6995	1226.5764	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	0.3995	0.5764	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	0.7921	1.0486	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	1.0267	1.3207	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	1.4706	1.8246	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	3.9922	4.5882	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	4,500	824.3871	731.7712	0.0000	0.0000	6,000	0.00
Dec 2018	ZAUS	13.00 Put	72,280	5.0871	5.7712	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	6.4610	7.2529	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	8.1779	9.5315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	5,000	632.4569	542.0829	0.0000	0.0000	7,000	0.00
Dec 2018	ZAUS	13.22 Put	5,500	14.4351	17.7881	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	585.8626	496.6412	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	16.5626	20.6412	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	22.6578	28.8719	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	23.6742	30.2500	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	408.6791	327.5575	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	39.3791	51.5575	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	367.4922	289.4616	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	48.1922	63.4616	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	70.8389	93.7081	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	94.6282	124.8682	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	101.4620	133.7016	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	120.2118	157.6753	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	137.0008	180.9721	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	160.7546	113.0594	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	141.4546	187.0594	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.90 Put	35,000	198.3903	253.3353	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	99.8591	65.8564	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	84.2845	54.3578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	53,250	264.9845	328.3578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	339.8652	410.4507	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	355.7018	427.5716	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	53.0171	32.2092	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	115,000	379.9350	453.6323	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	388.1351	462.4144	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	40.8018	23.9823	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	421.5018	497.9823	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	455.7101	534.1885	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	33.6829	19.3300	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	508.4070	589.5209	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	24.6041	13.5828	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	535.3041	617.5828	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	22.7165	12.4188	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	553.4165	636.4188	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	590.0375	674.3657	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	18.5690	9.9047	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	15.7721	8.2479	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	12.3128	6.7132	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	693.0128	780.7132	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	702.6074	790.5050	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	8.8467	4.9357	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	789.5467	878.9357	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	8.5635	4.7904	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	8.2902	4.6503	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	857.7602	948.0188	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	6.4196	3.6891	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	926.3636	1017.2987	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	5.4904	3.2090	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	936.1904	1027.2090	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	4.7085	2.8026	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	985.4085	1076.8026	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	4.4315	2.6578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	4.1725	2.5221	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	4.0495	2.4574	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	1084.1925	1176.1632	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	2.6206	1.6952	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	1183.3206	1275.6952	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	2.5480	1.6558	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.09 Call	500	2.0438	1.3785	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	1.9893	1.3481	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	1.7408	1.2083	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	1.5271	1.0329	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1382.2271	1475.0329	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1432.0056	1524.8846	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1481.8182	1574.7592	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	0.9030	0.6150	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	0.6898	0.4718	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	0.6503	0.4452	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	0.6132	0.4203	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1681.3132	1774.4203	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	0.5956	0.4084	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	0.4728	0.3256	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	0.4595	0.3167	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	0.4466	0.3080	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	0.3471	0.2406	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	0.3196	0.2219	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	2020.9376	2114.1661	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	17,300	0.2314	0.1619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	0.1977	0.1389	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	0.1571	0.1110	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	0.1196	0.0851	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	0.1112	0.0793	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.0964	0.0690	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.0877	0.0630	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.0449	0.0407	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.0658	0.0641	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.0872	0.0892	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	1.6286	1.5251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	15.1805	14.7889	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	43.0559	42.5444	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	45.5667	45.5059	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	6,332	79.6762	86.6784	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	97.2570	105.8497	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	101.0899	110.0240	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	117.5205	127.9116	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	128.7139	140.0825	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	145.6254	158.4519	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	153.3294	166.8097	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	181.0381	197.8413	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	206.1093	226.0225	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.36 Put	134,750	216.4431	237.1951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	230.7149	252.6048	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	253.1874	276.8197	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	268.8785	293.6971	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	289.2907	315.6150	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	310.5916	338.4436	0.0000	0.0000	4,000	0.00
Mar 2019	ZAUS	13.62 Put	6,432	319.3571	347.8254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	346.5028	376.8358	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	355.8294	386.7883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	365.2980	396.8847	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	379.7591	412.2876	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	399.5215	433.3140	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	430.1884	465.8828	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	435.4166	471.4281	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	456.6662	493.9453	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	489.8880	436.2643	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	22,406	512.0880	554.3643	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	535.8349	579.4173	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	4,000	413.5353	366.3079	0.0000	0.0000	2,000	0.00
Mar 2019	ZAUS	14.20 Put	0	635.7353	684.4079	0.0000	0.0000	2,000	0.00
Mar 2019	ZAUS	14.25 Call	750	396.2903	350.6037	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	688.4799	739.6035	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	379.7430	335.5666	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	736.0660	789.2735	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	784.9292	840.1606	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	799.1173	854.9143	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	806.2482	862.3274	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	331.2005	291.6635	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	325.5834	286.6014	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	320.0615	281.6294	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	842.2615	899.7294	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	864.1517	922.4384	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	886.2516	945.3394	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	953.7452	1015.1469	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	1022.9679	1086.5280	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	247.8302	216.8409	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1077.9383	1143.0720	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1085.8675	1151.2203	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1093.8124	1159.3831	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1101.7781	1167.5653	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	209.3656	182.5448	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1264.6651	1334.5171	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	15.10 Put	1,000	1314.7716	1385.7439	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1331.5901	1402.9253	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1340.0220	1411.5367	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	181.6845	158.0077	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1390.8979	1463.4671	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1399.4259	1472.1662	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	174.3192	151.4984	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	170.0556	147.7365	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1502.7496	1577.2995	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	150.3994	129.6743	0.0000	0.0000	2,000	0.00
Mar 2019	ZAUS	15.45 Call	20,000	144.0463	124.0725	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	142.8095	122.9848	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	137.9749	118.7270	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	135.6217	116.6590	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	133.3129	114.6277	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	120.3012	103.2136	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	105.9150	90.6408	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	104.1426	89.0934	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	99.0121	84.6246	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	91.8233	78.3738	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	90.3055	77.0541	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	81.0798	69.0562	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	70.5491	59.9570	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	66.1281	56.1467	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	56.3723	47.7632	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	55.4892	47.0057	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	41.8896	34.2534	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	41.5664	33.9444	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	39.9899	32.4414	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	38.1879	30.7297	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	37.8971	30.4533	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	37.6080	30.1802	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	34.0763	26.8530	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	32.3330	25.2246	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	27.8956	21.1226	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	19.5950	13.6842	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	13.7198	8.6025	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.5984	7.3608	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	78.3468	81.6980	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	152.1241	161.1419	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	208.6868	221.1173	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	214.1903	226.9462	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	13.24 Put	30,000	287.8517	304.8160	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.83 Put	25,000	541.3131	573.9289	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.88 Put	5,035	567.4074	601.2004	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.98 Call	1,000	771.3474	709.3008	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.42 Call	30	597.7033	546.5214	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	544.9471	497.3877	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.63 Put	8,203	1029.5667	1081.3069	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	474.7155	432.6043	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,000	406.0169	369.3412	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	305.6876	275.8935	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	275.9812	248.5721	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	257.9421	232.0242	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	246.6427	221.6763	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	102.0611	92.7654	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	12.3863	12.0737	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	152.1692	165.5019	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	374.0694	395.4004	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	667.7147	704.3306	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	700.0064	737.7964	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	766.7895	806.8992	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	836.4111	878.7657	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	908.5882	952.8228	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1636.8695	1699.7462	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1777.0334	1842.4491	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	449.3510	416.4383	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	261.1012	242.8437	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	231.9602	215.9025	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	219.1531	204.0756	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	214.6055	199.8795	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	196.1467	182.8587	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	188.0231	174.3993	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	179.8670	160.7718	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	127.1608	112.5122	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	59.8013	68.3327	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	604.8402	634.6741	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	377.6065	357.3100	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	167.3370	152.1003	0.0000	0.0000	0	0.00		
			<u>7,560,444</u>					<u>23,000.00</u>	<u>0.00</u>	<u>62 646 208.00</u>	<u>0.00</u>
	Total		8,317,394					113,023.00	1,244,437,967.40	253 336 255.00	2 290 688 232 070.20

<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		10,041,193					137,351.00	1 647 427 983.70	346,302,650	3,173,124,558,467.43
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