



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 06-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Feb 2019	DAEU	Future	26	16.4335	15.9154	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.4850	16.3245	0.0000	0.0000	53	865,198.50
			<u>79</u>					<u>53.00</u>	<u>865,198.50</u>
									<u>801 552.00</u>
									<u>11 969 588 805.00</u>
Option									
Dec 2018	DAEU	15.83 Put	32,000	80.5867	291.5420	0.0000	0.0000	0	0.00
Jan 2019	DAEU	15.85 Put	13,000	118.8876	326.9455	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	933.5705	1217.6772	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	330.2613	233.4222	0.0000	0.0000	0	0.00
			<u>123,600</u>					<u>0.00</u>	<u>0.00</u>
		Total	123,679					53.00	865,198.50
									2 312 139.00
									11 969 588 805.00
Future									
Jan 2019	DAGB	Future	27	18.2932	17.7313	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.3806	17.8160	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.4732	17.9058	0.0000	0.0000	56	1,022,644.00
			<u>154</u>					<u>56.00</u>	<u>1,022,644.00</u>
		Total	154					56.00	1,022,644.00
									261 447.00
									892 317 851.50
Future									
Dec 2018	DAUS	Future	0	14.1795	13.8096	0.0000	0.0000	30,000	423,000,000.00
Dec 2018	DAUS	Future	500	14.1843	13.8096	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,672	14.1828	13.8161	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	160	14.1979	13.8309	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	1,952	14.2149	13.8473	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.2183	13.8506	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	150	14.2406	13.8724	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.2424	13.8741	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	51	14.2582	13.8892	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.2670	13.8977	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,263	14.2687	13.8993	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	70	14.2916	13.9214	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	6	14.2951	13.9248	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	15	14.3127	13.9418	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	5,025	14.3180	13.9469	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	80	14.3267	13.9554	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	14.3662	13.9934	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	4,356	14.3698	13.9968	0.0000	0.0000	249	3,552,028.00
Apr 2019	DAUS	Future	55	14.3770	14.0037	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,280	14.4275	14.0521	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	225	14.4834	14.1056	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	170	14.5344	14.1544	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	14.5399	14.1596	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	14.5967	14.2137	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	14.6553	14.2696	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.7114	14.3228	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.7661	14.3744	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	14.8264	14.4313	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.8869	14.4897	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.9440	14.5452	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	15.0051	14.6045	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.0663	14.6638	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.1195	14.7154	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	15.1865	14.7804	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	15.2969	14.8875	0.0000	0.0000	0	0.00
			<u>108,551</u>					<u>30,249.00</u>	<u>426,552,028.00</u>
									<u>10 967 087.00</u>
									<u>134 723 557 854.50</u>
Option									
Dec 2018	DAUS	13.50 Put	25,000	0.0962	8.3802	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	125	1.7858	52.1454	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	148.8498	15.8286	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	11.0166	1.2753	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	12.0017	62.6087	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	34.8343	147.6291	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	5.3148	0.9743	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	0.9498	0.1350	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	91.1295	228.9024	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.98 Put	18,000	118.7019	279.8617	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	278.3310	524.7639	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	746.6287	1080.1315	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1118.9875	1473.8103	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	7.8224	15.8539	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	10.1920	26.8246	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	81.9197	21.4488	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	14.75 Call	1,000	66.5191	16.5485	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	8.5973	16.5212	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	93.5219	210.1287	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	261.5483	111.7794	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	283.7766	507.7451	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	813.6308	1134.3399	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	1.5635	0.7788	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	1.3943	0.9803	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	49.3653	123.8669	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	434.9122	215.0837	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	224.4795	96.7852	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	69.9796	162.5044	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	343.3003	169.0944	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	149.9034	64.5566	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	156.6836	293.3585	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	451.7629	248.9755	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	5.4338	14.8409	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	23.8090	55.7537	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	355.8983	550.7583	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	382.6327	585.6700	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	348.0417	199.6549	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	148.3879	76.6357	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	99.7403	48.5303	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	52.3498	94.5410	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	422.1383	605.3298	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	448.7805	638.7445	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	408.0483	258.3239	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	210.3026	125.5926	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	153.4391	88.3765	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	320.7260	462.1379	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	374.0166	528.0968	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	80.6390	131.8689	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	477.0872	654.6365	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	503.7302	687.0095	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	458.1422	310.1884	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	263.0924	171.8495	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	203.7698	129.0511	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	286.2048	416.3432	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	603.3175	422.6110	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	109.7088	167.8127	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1165.3187	890.2966	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	524.0040	697.3607	0.0000	0.0000	0	0.00

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Apr 2019	DAUS	14.25 Put	250	550.6253	728.8935	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	500.9071	355.1736	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	310.1229	213.7496	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	250.6994	168.8830	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	138.2581	200.5165	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	563.7724	733.6606	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	590.2653	764.5424	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	536.3663	392.6813	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	350.2337	249.2324	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	287.7207	201.6551	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	887.9549	1097.3718	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	192.6810	140.0395	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	159.1170	226.7534	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	594.2403	763.4087	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	620.6826	793.8450	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	564.0834	423.4788	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	382.6002	279.1940	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	319.3047	231.1508	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	283.0203	383.3605	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	310.3761	225.5563	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	179.5569	254.8511	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	624.9458	794.2659	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	651.3451	824.2593	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	598.7802	460.3314	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	419.7187	314.6253	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	356.6446	266.1133	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	790.0947	978.1489	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	407.1458	308.0083	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	196.9460	278.4192	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	650.2004	818.6313	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	676.5501	848.4808	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	622.1886	485.3078	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	445.8640	340.8287	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	382.8071	291.5656	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	194.8329	137.9074	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	210.3247	300.8313	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	672.2560	840.8294	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	698.5157	870.4455	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	650.9983	514.8942	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	475.6751	370.0299	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	410.5023	318.4595	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	222.2734	322.8132	0.0000	0.0000	0	0.00

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Oct 2019	DAUS	14.20 Put	250	693.2298	861.9588	0.0000	0.0000	0	0.00	
Oct 2019	DAUS	14.25 Put	250	719.3940	891.3733	0.0000	0.0000	0	0.00	
Oct 2019	DAUS	15.87 Call	500	672.2763	537.4508	0.0000	0.0000	0	0.00	
Oct 2019	DAUS	16.70 Call	250	500.2417	394.8133	0.0000	0.0000	0	0.00	
Oct 2019	DAUS	17.09 Call	250	436.8340	344.1763	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	13.00 Put	500	238.8060	342.0461	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	14.20 Put	250	710.9545	878.7810	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	14.25 Put	250	737.0117	908.0027	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	16.03 Call	500	695.1304	560.5992	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	16.87 Call	250	524.7238	418.5564	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	17.26 Call	250	462.6285	368.1513	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	13.00 Put	500	253.8474	358.0182	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.20 Put	250	732.0219	898.9905	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	757.9722	928.0293	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	723.8080	588.7496	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	556.4864	449.7505	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	495.0423	400.6166	0.0000	0.0000	0	0.00	
			<u>520,030</u>					<i>0.00</i>	<i>0.00</i>	<i>21 977 231.00</i>
		Total	628,581					30,249.00	426,552,028.00	32 944 318.00
										<i>134 723 557 854.50</i>
Future										
Dec 2018	EUUS	Future	60	1.1398	1.1332	1.1347	1.1347	5	56,735.00	
Jun 2019	EUUS	Future	582	1.1584	1.1519	0.0000	0.0000	0	0.00	
			<u>642</u>					<i>5.00</i>	<i>56,735.00</i>	<i>745 297.00</i>
		Total	642					5.00	56,735.00	8 454 976 850.00
Future										
Dec 2018	GBUS	Future	250	1.2785	1.2721	0.0000	0.0000	0	0.00	
			<u>250</u>					<i>0.00</i>	<i>0.00</i>	<i>170 247.00</i>
		Total	250					0.00	0.00	2 190 752 058.00
Future										
Dec 2018	ZAAD	Future	19,842	10.2459	10.0526	0.0000	0.0000	0	0.00	
Mar 2019	ZAAD	Future	368	10.3815	10.1853	10.1835	10.1634	244	2,486,825.20	
Jun 2019	ZAAD	Future	4,934	10.5134	10.3134	0.0000	0.0000	0	0.00	
Sep 2019	ZAAD	Future	0	10.6590	10.4539	10.4525	10.4525	100	1,045,250.00	
Dec 2019	ZAAD	Future	400	10.7978	10.5887	0.0000	0.0000	0	0.00	
			<u>25,544</u>					<i>344.00</i>	<i>3,532,075.20</i>	<i>3 775 983.00</i>
										<i>32 964 288 821.70</i>
Option										
Dec 2019	ZAAD	11.00 Call	1,000	540.2601	447.4651	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>

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Total			26,544					344.00	3,532,075.20	3 810 360.00	32 964 288 821.70
Future											
Dec 2018	ZACA	Future	850	10.5769	10.4029	10.3493	10.3493	100	1,034,930.00		
Mar 2019	ZACA	Future	150	10.7223	10.5455	10.5027	10.4902	200	2,099,290.00		
Sep 2019	ZACA	Future	250	10.8788	10.6965	0.0000	0.0000	0	0.00		
			<u>1,250</u>					<u>300.00</u>	<u>3,134,220.00</u>	<u>141 913.00</u>	<u>1 401 253 885.10</u>
Total			1,250					300.00	3,134,220.00	141 913.00	1 401 253 885.10
Future											
Dec 2018	ZADK	Future	140	2.1760	2.1071	2.1112	2.1112	100	2,111,200.00		
Jun 2019	ZADK	Future	250	2.2636	2.1920	2.1997	2.1997	100	2,199,700.00		
Sep 2019	ZADK	Future	0	2.3106	2.2373	2.2451	2.2451	100	2,245,100.00		
			<u>390</u>					<u>300.00</u>	<u>6,556,000.00</u>	<u>12 985.00</u>	<u>279 973 109.00</u>
Total			390					300.00	6,556,000.00	12 985.00	279 973 109.00
Future											
Dec 2018	ZAEU	Future	122,135	16.1699	15.6601	16.1513	15.7449	5,704	90,192,363.30		
Mar 2019	ZAEU	Future	37,571	16.4955	15.9760	16.2902	16.0539	512	8,221,164.60		
Jun 2019	ZAEU	Future	5,042	16.8068	16.2767	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	8,596	17.1493	16.6081	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	Future	277	17.4765	16.9238	0.0000	0.0000	0	0.00		
			<u>173,621</u>					<u>6,216.00</u>	<u>98,413,527.90</u>	<u>15 745 411.00</u>	<u>226 693 573 160.30</u>
Option											
Mar 2019	ZAEU	16.00 Call	650	817.9544	509.7188	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	585.9012	428.7710	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	67.5789	89.1651	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	519.2017	694.9016	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	467.0117	373.5594	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			280,721					6,216.00	98,413,527.90	26 702 287.00	226 693 573 160.30
Future											
Dec 2018	ZAFR	Future	1,066	14.3195	13.8309	13.9230	13.9230	100	1,392,300.00		
Jun 2019	ZAFR	Future	150	14.9160	14.4056	0.0000	0.0000	0	0.00		
Sep 2019	ZAFR	Future	0	15.2344	14.7134	14.8081	14.8081	100	1,480,810.00		
			<u>1,216</u>					<u>200.00</u>	<u>2,873,110.00</u>	<u>621 558.00</u>	<u>6 681 813 232.80</u>
Total			1,216					200.00	2,873,110.00	621 558.00	6 681 813 232.80
Future											
Dec 2018	ZAGB	Future	417,708	18.1374	17.5800	18.0100	17.6580	547	9,671,069.60		

<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>	
Mar 2019	ZAGB	Future	11,948	18.4376	17.8715	18.3700	17.9436	796	14,375,186.30	
Jun 2019	ZAGB	Future	5,539	18.7212	18.1456	18.2284	18.2270	135	2,460,827.00	
Sep 2019	ZAGB	Future	13,145	19.0299	18.4436	18.5181	18.4991	795	14,708,454.00	
Dec 2019	ZAGB	Future	247	19.3256	18.7287	18.7918	18.7918	500	9,395,900.00	
			<u>448,587</u>					<u>2,773.00</u>	<u>50,611,436.90</u>	<u>12 950 081.00</u>
Option										<u>220 523 124 486.90</u>
Dec 2018	ZAGB	19.30 Call	200	10.8678	3.6149	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	18.00 Put	500	465.0273	704.9992	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	455.2211	265.3389	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	1149.3743	1546.6849	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	219.6760	117.5150	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	192.2865	100.9119	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	72.6649	35.0520	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>
		Total	455,287					2,773.00	50,611,436.90	14 733 194.00
										<u>220 523 124 486.90</u>
Future										
Dec 2018	ZAJY	Future	6,905	0.1263	0.1222	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>
		Total	6,905					0.00	0.00	1 021 902.00
										<u>11 470 576 312.50</u>
Future										
Jun 2019	ZAKS	Future	2,166	0.1364	0.1333	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
										<u>515 662 000.00</u>
Future										
Mar 2019	ZATR	Future	14,000	2.5360	2.4773	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
										<u>1 293 087 569.00</u>
Future										
Dec 2018	ZAUM	Future	429	14.1862	13.8193	13.8776	13.8776	47	65,486,800.00	
Mar 2019	ZAUM	Future	10	14.3499	13.9778	14.0494	14.0494	5	7,024,700.00	
Jun 2019	ZAUM	Future	0	14.5088	14.1299	14.2058	14.1912	4	5,679,400.00	
Sep 2019	ZAUM	Future	0	14.6813	14.2943	14.3521	14.3521	2	2,870,420.00	
			<u>439</u>					<u>58.00</u>	<u>81,061,320.00</u>	<u>154 196.00</u>
		Total	439					58.00	81,061,320.00	158 719.00
										<u>178 551 326 970.00</u>
Future										
Dec 2018	ZAUS	Future	609,916	14.1862	13.8193	14.2063	13.8711	104,354	1,462,458,412.80	

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Mar 2019	ZAUS	Future	105,172	14.3499	13.9778	14.3688	14.0251	39,879	563,276,626.90
Jun 2019	ZAUS	Future	22,323	14.5088	14.1299	14.4347	14.4304	1,020	14,761,609.50
Sep 2019	ZAUS	Future	14,094	14.6813	14.2943	14.3690	14.3690	5	71,845.00
Dec 2019	ZAUS	Future	9,800	14.8474	14.4515	14.5331	14.5331	200	2,906,620.00
Mar 2020	ZAUS	Future	3,966	15.0327	14.6312	0.0000	0.0000	0	0.00
			<u>765,271</u>					<u>145,458.00</u>	<u>2,043,475,114.20</u>
									<u>190 835 505.00</u>
									<u>2 292 731 707 184.40</u>

Option

Dec 2018	ZAUS	11.64 Put	2,764	0.0281	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.0368	0.0001	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.0536	0.0008	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.0692	0.0030	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.0729	0.0039	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	0.0899	0.0104	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	0.1173	0.0323	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	0.1342	0.0548	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	0.1921	0.1946	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1686.4698	1319.6995	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	0.2698	0.3995	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	0.3945	0.7921	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	0.4581	1.0267	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	0.5666	1.4706	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	1.0499	3.9922	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	4,500	1187.4307	824.3871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	72,280	1.2307	5.0871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	1.4464	6.4610	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	1.7042	8.1779	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	5,000	988.5847	632.4569	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	2.5537	14.4351	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	939.0323	585.8626	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	2.8323	16.5626	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	3.6205	22.6578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	3.7514	23.6742	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	741.9960	408.6791	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	5.7960	39.3791	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	693.1823	367.4922	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	6.9823	48.1922	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	13.1289	70.8389	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	20.7625	94.6282	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	23.1404	101.4620	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	30.0336	120.2118	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	36.6202	137.0008	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	424.6282	160.7546	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.80 Put	500	38.4282	141.4546	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	60.4254	198.3903	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	310.5474	99.8591	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	276.5984	84.2845	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	53,250	90.3984	264.9845	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	129.2681	339.8652	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	138.1584	355.7018	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	198.9444	53.0171	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	115,000	152.2000	379.9350	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	157.0687	388.1351	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	163.6836	40.8018	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	177.4836	421.5018	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	200.0381	455.7101	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	142.1040	33.6829	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	236.5592	508.4070	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	112.1784	24.6041	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	255.9784	535.3041	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	105.5362	22.7165	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	269.3362	553.4165	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	296.9984	590.0375	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	90.3045	18.5690	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	79.4563	15.7721	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	65.2345	12.3128	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	379.0345	693.0128	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	386.8872	702.6074	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	46.3380	8.8467	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	460.1380	789.5467	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	44.7415	8.5635	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	43.1929	8.2902	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	519.9374	857.7602	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	32.4137	6.4196	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	581.7848	926.3636	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	26.9664	5.4904	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	590.7664	936.1904	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	22.3611	4.7085	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	636.1611	985.4085	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	20.7293	4.4315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	19.2070	4.1725	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	18.4850	4.0495	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	729.0364	1084.1925	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	11.4559	2.6206	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	825.2559	1183.3206	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.01 Call	10,000	11.1400	2.5480	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	8.9404	2.0438	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	8.7020	1.9893	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	7.6146	1.7408	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	6.6808	1.5271	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1020.4808	1382.2271	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1069.6774	1432.0056	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1118.9848	1481.8182	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	4.3699	0.9030	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	3.5348	0.6898	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	3.3761	0.6503	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	3.2258	0.6132	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1317.0258	1681.3132	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	3.1538	0.5956	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	2.6422	0.4728	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	2.5855	0.4595	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	2.5087	0.4466	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	1.9138	0.3471	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	1.7500	0.3196	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1655.0645	2020.9376	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	17,300	1.2280	0.2314	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	1.0313	0.1977	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	0.7962	0.1571	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	0.5836	0.1196	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	0.5368	0.1112	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.4548	0.0964	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.4077	0.0877	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.1755	0.0449	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.0970	0.0658	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.0608	0.0872	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	1.1590	1.6286	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	9.7364	15.1805	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	30.0013	43.0559	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	31.8509	45.5667	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	6,332	48.8482	79.6762	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	56.4652	97.2570	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	58.9179	101.0899	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	69.6715	117.5205	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	77.1018	128.7139	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	88.4759	145.6254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	93.7113	153.3294	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	112.8002	181.0381	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.33 Put	135,043	129.9703	206.1093	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	136.8616	216.4431	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	146.4436	230.7149	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	161.6797	253.1874	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	172.4226	268.8785	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	186.5230	289.2907	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	201.3848	310.5916	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	207.5427	319.3571	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	227.4652	346.5028	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	234.5976	355.8294	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	241.8626	365.2980	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	253.0176	379.7591	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	268.3622	399.5215	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	292.3951	430.1884	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	296.5165	435.4166	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	313.3499	456.6662	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	707.6696	489.8880	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	22,406	357.7696	512.0880	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	376.4706	535.8349	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	606.3687	413.5353	0.0000	0.0000	4,000	0.00
Mar 2019	ZAUS	14.25 Call	750	583.0404	396.2903	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	499.5151	688.4799	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	560.4872	379.7430	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	538.7942	736.0660	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	580.3179	784.9292	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	592.4422	799.1173	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	598.5490	806.2482	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	494.5844	331.2005	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	486.9403	325.5834	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	479.4057	320.0615	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	629.5057	842.2615	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	648.4166	864.1517	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	667.5710	886.2516	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	726.4785	953.7452	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	787.4549	1022.9679	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	379.1036	247.8302	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	836.2447	1077.9383	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	843.3090	1085.8675	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	850.3963	1093.8124	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	857.5064	1101.7781	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	324.1500	209.3656	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1004.2738	1264.6651	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	1049.8589	1314.7716	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1065.2039	1331.5901	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1072.9032	1340.0220	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	283.7910	181.6845	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1119.4939	1390.8979	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1127.3209	1399.4259	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	272.9303	174.3192	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	266.6263	170.0556	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1222.6028	1502.7496	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	237.3303	150.3994	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	228.3462	144.0463	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	226.5922	142.8095	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	219.7248	137.9749	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	216.3757	135.6217	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	213.0819	133.3129	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	194.4310	120.3012	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	173.5136	105.9150	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	170.7744	104.1426	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	162.8282	99.0121	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	151.6324	91.8233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	149.2564	90.3055	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	134.7526	81.0798	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	118.0245	70.5491	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	110.9454	66.1281	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	95.1945	56.3723	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	93.7597	55.4892	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	71.6515	41.8896	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	71.1275	41.5664	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	68.5695	39.9899	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	65.6368	38.1879	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	65.1612	37.8971	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	64.6908	37.6080	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	58.9528	34.0763	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	56.1817	32.3330	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	49.0769	27.8956	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	35.5458	19.5950	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	27.9108	13.7198	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	6.0561	7.5984	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	49.5033	78.3468	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	105.1518	152.1241	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	145.2713	208.6868	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	149.2199	214.1903	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	205.5540	287.8517	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.83 Put	25,000	403.0399	541.3131	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.88 Put	5,035	424.9220	567.4074	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.98 Call	1,000	999.4030	771.3474	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.42 Call	30	789.4163	597.7033	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	724.1332	544.9471	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.63 Put	8,203	826.0724	1029.5667	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	636.2962	474.7155	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,500	547.5676	406.0169	0.0000	0.0000	500	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	417.3927	305.6876	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	380.9609	275.9812	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	358.7340	257.9421	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	344.0853	246.6427	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	137.4858	102.0611	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	11.4429	12.3863	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	92.0805	152.1692	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	280.3634	374.0694	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	520.8592	667.7147	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	547.7127	700.0064	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	606.0038	766.7895	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	667.2909	836.4111	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	731.4881	908.5882	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1397.9293	1636.8695	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1528.7690	1777.0334	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	574.9303	449.3510	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	338.2196	261.1012	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	290.8710	231.9602	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	273.9798	219.1531	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	268.0564	214.6055	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	243.9717	196.1467	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	233.3527	188.0231	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	224.6144	179.8670	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	182.4449	127.1608	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	35.8722	59.8013	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	479.8567	604.8402	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	470.3944	377.6065	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	230.7627	167.3370	0.0000	0.0000	0	0.00		
			<u>7,558,944</u>					<u>4,500.00</u>	<u>0.00</u>	<u>62 650 708.00</u>	<u>0.00</u>
	Total		8,324,215					149,958.00	2,043,475,114.20	253 486 213.00	2 292 731 707 184.40

<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		9,866,439					190,512.00	2 718 153 409.70	346,493,162	3,175,842,711,877.13
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