



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 16-November-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Mar 2019	CAHF	Future	10,000	275.0000	275.0000	0.0000	0.0000	10,000	2,531,700.00		
			<u>10,000</u>					<u>10,000.00</u>	<u>2,531,700.00</u>	10 000.00	2 531 700.00
		Total	10,000					10,000.00	2,531,700.00	10 000.00	2 531 700.00
Future											
Nov 2018	DAEU	Future	37	16.0358	16.1374	0.0000	0.0000	0	0.00		
			<u>37</u>					<u>0.00</u>	<u>0.00</u>	801 399.00	11 967 156 360.40
Option											
Aug 2019	DAEU	17.01 Put	31,200	1045.1579	980.0458	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	359.1386	375.4297	0.0000	0.0000	0	0.00		
			<u>93,600</u>					<u>0.00</u>	<u>0.00</u>	1 390 587.00	0.00
		Total	93,637					0.00	0.00	2 191 986.00	11 967 156 360.40
Future											
Nov 2018	DAGB	Future	13	18.0859	18.2546	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	23	18.2833	18.4562	0.0000	0.0000	0	0.00		
			<u>36</u>					<u>0.00</u>	<u>0.00</u>	53 977.00	889 500 016.60
		Total	36					0.00	0.00	261 290.00	889 500 016.60
Future											
Nov 2018	DAUS	Future	0	14.0358	14.2579	0.0000	0.0000	66,000	926,362,800.00		
Nov 2018	DAUS	Future	179	14.0387	14.2579	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	368	14.0468	14.2663	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.0485	14.2680	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	2,427	14.0502	14.2698	0.0000	0.0000	200	2,848,400.00		
Dec 2018	DAUS	Future	500	14.0620	14.2823	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.0705	14.2912	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,420	14.1023	14.3236	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.1056	14.3269	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	150	14.1271	14.3485	0.0000	0.0000	0	0.00		

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>		
Jan 2019	DAUS	Future	8	14.1288	14.3502	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.1520	14.3737	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,832	14.1536	14.3753	0.0000	0.0000	68	974,134.00		
Feb 2019	DAUS	Future	70	14.1752	14.3973	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.1785	14.3530	0.0000	0.0000	6	86,118.00		
Feb 2019	DAUS	Future	5,841	14.2003	14.4230	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.2088	14.3980	0.0000	0.0000	80	1,151,840.00		
Mar 2019	DAUS	Future	3,731	14.2460	14.4697	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,753	14.2494	14.4732	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.2562	14.4801	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.3035	14.5286	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.3565	14.5827	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.4105	14.6376	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.4646	14.6925	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.5207	14.7500	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.5740	14.8049	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.6254	14.8579	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.6846	14.9187	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.7458	14.9807	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.8030	15.0387	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.8642	15.1007	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.9254	15.1626	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.9787	15.2166	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.0458	15.2846	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.1563	15.3966	0.0000	0.0000	0	0.00		
			<u>113,658</u>					<u>66,354.00</u>	<u>931,423,292.00</u>	<u>10 880 364.00</u>	<u>133 514 672 442.10</u>
Option											
Nov 2018	DAUS	13.67 Put	20,000	29.6058	12.8275	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	20,000	271.9848	142.9482	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.76 Call	4,000	20.8676	49.6007	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.00 Put	500	4.1612	3.3503	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.80 Put	1,000	86.5190	39.1325	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.85 Put	600	103.6398	48.8258	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.08 Call	500	180.1343	305.8792	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.25 Put	421	318.4256	192.4559	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.30 Call	600	104.3626	190.0083	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.80 Call	600	26.5841	56.2873	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.82 Call	250	25.1185	53.4554	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	0.4283	0.7241	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	0.2128	0.3417	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.45 Put	23,000	1398.6861	1187.6326	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.75 Put	65,000	99.5301	51.6074	0.0000	0.0000	0	0.00		

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Dec 2018	DAUS	13.90 Put	30,000	154.7663	86.9330	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	383.0916	251.9722	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	877.0438	689.8604	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1252.5786	1047.4025	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.75 Put	125	105.0550	55.6919	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.07 Call	125	235.0452	361.9934	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.50 Call	125	100.1455	165.9413	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	89.9695	48.0669	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	160.4581	94.5049	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	37.5130	65.5447	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	10.5740	19.7174	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	213.9782	137.8738	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	436.6484	310.0182	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	902.4720	725.9650	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1260.9079	1065.4337	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	35.9598	21.7102	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	47.9218	29.0077	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	131.5092	193.1242	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	114.5270	169.4184	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	25.2578	14.8746	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	202.9774	133.8857	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	297.7228	404.1150	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	434.1936	315.5886	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	969.0469	794.8753	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	4.3411	8.5175	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	3.3937	4.4176	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	162.3540	105.1945	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	368.8399	487.9310	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	195.3310	264.5489	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	19.7763	14.1106	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.88 Call	4,000	223.6277	286.9552	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	61.7328	39.9955	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	482.3702	372.8499	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	512.3202	398.1395	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	367.6601	463.3585	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	178.2296	229.9728	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	128.5261	166.8869	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	95.1733	67.3626	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	539.0436	431.2513	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	568.4308	456.6336	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	419.5967	511.3874	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	232.5696	287.3395	0.0000	0.0000	0	0.00

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Feb 2019	DAUS	15.63 Call	250	176.1583	219.0633	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	477.8882	382.9872	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	128.0587	94.8197	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	589.3646	481.9925	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	617.9583	507.5497	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	464.9278	553.4831	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	280.0093	336.5064	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	221.1859	267.9938	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.04 Call	4,000	437.8402	514.6428	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	161.0174	125.4333	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1116.5035	1280.1488	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	633.5595	526.9172	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	661.8981	552.5161	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	503.6358	589.5567	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	323.2264	380.2175	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	264.0529	314.1850	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	190.6648	150.0906	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	672.0780	565.7442	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	700.2828	591.4061	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	538.0816	621.4312	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	361.8460	418.8564	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	299.7658	350.9433	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1010.9791	881.4076	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	207.2183	241.7578	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	215.0159	169.7097	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	702.9166	596.5780	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	731.0769	622.3229	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	566.6038	647.1349	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	392.4547	450.3430	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	331.1727	382.3191	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	359.2165	295.6118	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	322.6960	371.9147	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	241.6131	188.6740	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	734.7354	628.5899	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	762.7983	654.3697	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	601.8779	680.1197	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	428.8065	487.9085	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	368.2320	419.6342	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	908.9562	791.2747	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	417.9828	473.6533	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	262.6168	203.4731	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	761.5025	655.4138	0.0000	0.0000	0	0.00

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Aug 2019	DAUS	14.25 Put	250	789.4615	681.1985	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	626.1868	702.2380	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	455.8292	514.6277	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	395.2944	446.5191	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	207.8334	234.7209	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	281.9013	223.3166	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	785.1624	679.0331	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	812.9679	704.7610	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	655.1193	730.0541	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	485.8764	544.2713	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	423.3452	474.2783	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	297.4007	240.2718	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	807.3030	701.7902	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	834.9681	727.4762	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	676.7417	750.3988	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	510.4366	568.3610	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	449.2856	500.5827	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	313.7209	254.3825	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	827.8687	722.6854	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	855.4379	748.3596	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	703.2638	776.5510	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	538.3462	596.2634	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	478.2548	529.8438	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	331.8412	272.2194	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	849.3523	745.8107	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	876.8292	770.1896	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	734.5503	807.3108	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	573.1568	631.0194	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	513.8901	565.5698	0.0000	0.0000	0	0.00		
			<u>708,153</u>					<u>0.00</u>	<u>0.00</u>	<u>21 873 883.00</u>	<u>0.00</u>
Total			821,811					66,354.00	931,423,292.00	32 754 247.00	133 514 672 442.10
Future											
Dec 2018	EUUS	Future	50	1.1426	1.1321	0.0000	0.0000	0	0.00		
			<u>50</u>					<u>0.00</u>	<u>0.00</u>	<u>744 705.00</u>	<u>8 448 109 050.00</u>
Total			50					0.00	0.00	744 705.00	8 448 109 050.00
Future											
Dec 2018	GBUS	Future	250	1.2880	1.2800	1.2893	1.2828	255	3,271,515.00		
			<u>250</u>					<u>255.00</u>	<u>3,271,515.00</u>	<u>170 231.00</u>	<u>2 190 547 280.00</u>
Total			250					255.00	3,271,515.00	170 231.00	2 190 547 280.00

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Future											
Dec 2018	ZAAD	Future	23,926	10.2930	10.3924	10.3000	10.3000	55	566,500.00		
Mar 2019	ZAAD	Future	324	10.4227	10.5229	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,934	10.5489	10.6522	0.0000	0.0000	0	0.00		
			<u>29,184</u>					<u>55.00</u>	<u>566,500.00</u>	<u>3 765 670.00</u>	<u>32 859 920 774.60</u>
	Total		29,184					55.00	566,500.00	3 798 047.00	32 859 920 774.60
Future											
Dec 2018	ZACA	Future	500	10.7138	10.8109	0.0000	0.0000	0	0.00		
Mar 2019	ZACA	Future	400	10.8548	10.9534	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	10.9994	11.1005	11.2329	11.2328	250	2,808,200.50		
			<u>1,150</u>					<u>250.00</u>	<u>2,808,200.50</u>	<u>139 613.00</u>	<u>1 376 968 315.10</u>
	Total		1,150					250.00	2,808,200.50	139 613.00	1 376 968 315.10
Future											
Dec 2018	ZADK	Future	140	2.1603	2.1742	0.0000	0.0000	0	0.00		
			<u>140</u>					<u>0.00</u>	<u>0.00</u>	<u>12 435.00</u>	<u>267 991 609.00</u>
	Total		140					0.00	0.00	12 435.00	267 991 609.00
Future											
Dec 2018	ZAEU	Future	134,810	16.0803	16.1834	16.2479	16.0764	840	13,574,291.30		
Mar 2019	ZAEU	Future	36,636	16.4044	16.5118	16.5490	16.5119	252	4,165,210.90		
Jun 2019	ZAEU	Future	4,906	16.7086	16.8200	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	9,050	17.0478	17.1635	0.0000	0.0000	0	0.00		
			<u>185,402</u>					<u>1,092.00</u>	<u>17,739,502.20</u>	<u>15 665 052.00</u>	<u>225 420 315 157.60</u>
Option											
Mar 2019	ZAEU	15.60 Put	462	255.6414	228.3206	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	820.5467	886.4554	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	1260.4855	1182.9204	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	73.0272	80.4408	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	611.9964	639.1163	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	93.3753	87.5296	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	613.3447	569.7315	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	496.6967	513.8315	0.0000	0.0000	0	0.00		
			<u>108,486</u>					<u>0.00</u>	<u>0.00</u>	<u>10 956 414.00</u>	<u>0.00</u>
	Total		293,888					1,092.00	17,739,502.20	26 621 466.00	225 420 315 157.60
Future											
Dec 2018	ZAFR	Future	1,616	14.0766	14.2535	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	14.6571	14.8467	0.0000	0.0000	0	0.00		
			<u>1,766</u>					<u>0.00</u>	<u>0.00</u>	<u>620 908.00</u>	<u>6 672 647 028.20</u>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Total			1,766					0.00	0.00	620 908.00	6 672 647 028.20
Future											
Dec 2018	ZAGB	Future	449,232	18.1275	18.2976	18.2800	18.2165	99	1,807,093.30		
Mar 2019	ZAGB	Future	11,340	18.4231	18.5978	18.6371	18.4600	81	1,498,437.10		
Jun 2019	ZAGB	Future	5,506	18.6996	18.8797	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	8,875	19.0067	19.1920	19.1484	19.1354	615	11,775,408.50		
			474,953					795.00	15,080,938.90	12 896 309.00	219 552 833 047.70
Option											
Dec 2018	ZAGB	19.30 Call	200	56.3341	75.0642	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	541.7449	449.4357	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1220.1836	1082.2290	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	263.8229	282.9419	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	233.4724	250.2884	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	95.1597	103.6507	0.0000	0.0000	0	0.00		
			4,200					0.00	0.00	1 779 113.00	0.00
Total			479,153					795.00	15,080,938.90	14 675 422.00	219 552 833 047.70
Future											
Dec 2018	ZAJY	Future	6,905	0.1251	0.1265	0.0000	0.0000	0	0.00		
			6,905					0.00	0.00	1 021 902.00	11 470 576 312.50
Total			6,905					0.00	0.00	1 021 902.00	11 470 576 312.50
Future											
Jun 2019	ZAKS	Future	2,166	0.1339	0.1372	0.0000	0.0000	0	0.00		
			2,166					0.00	0.00	38 066.00	515 662 000.00
Total			2,166					0.00	0.00	38 066.00	515 662 000.00
Future											
Dec 2018	ZAUM	Future	439	14.0739	14.2947	14.2555	14.0596	33	46,684,950.00		
Mar 2019	ZAUM	Future	10	14.2308	14.4541	14.3006	14.2555	10	14,278,050.00		
			449					43.00	60,963,000.00	153 916.00	178 157 495 630.00
Total			449					43.00	60,963,000.00	158 439.00	178 157 495 630.00
Future											
Dec 2018	ZAUS	Future	798,685	14.0739	14.2947	14.2966	14.0567	76,763	1,092,599,227.50		
Mar 2019	ZAUS	Future	57,692	14.2308	14.4541	14.4153	14.2400	2,085	29,968,909.00		
Jun 2019	ZAUS	Future	18,832	14.3809	14.6075	14.5300	14.4544	14	203,032.00		
Sep 2019	ZAUS	Future	14,099	14.5456	14.7756	0.0000	0.0000	30	442,479.00		
Dec 2019	ZAUS	Future	9,600	14.7063	14.9407	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	3,966	14.8918	15.1286	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
			902,874					78,892.00	1,123,213,647.50
									189 548 502.00
									2 274 902 712 595.70
Option									
Dec 2018	ZAUS	11.64 Put	2,764	0.2611	0.1837	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.3691	0.2556	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.5896	0.3998	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.8035	0.5377	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.8546	0.5704	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	1.0927	0.7219	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	1.4826	0.9678	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	1.7255	1.1198	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	2.5524	1.6331	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1577.5495	1797.0070	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	3.6495	2.3070	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	5.3510	3.3433	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	6.1903	3.8523	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	7.5800	4.6933	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	13.3940	8.3190	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1089.3058	1304.3117	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	15.4058	9.6117	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	17.7015	11.0919	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	20.3173	12.7837	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	900.5740	1111.6164	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	28.1507	17.8795	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	854.4075	1064.1205	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	30.5075	19.4205	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	36.7380	23.5057	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	37.7177	24.1500	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	680.0028	877.9544	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	56.1028	33.2544	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	639.8441	832.5967	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	65.9441	37.8967	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	89.2859	49.0043	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	111.7367	63.5541	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	117.8996	67.6375	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	134.3017	78.6747	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	148.4602	88.3850	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	426.0454	585.6395	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	152.1454	90.9395	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	192.2498	119.3564	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	338.4304	480.2947	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	312.1984	447.9283	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	238.2984	153.2283	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.10 Put	1,867	291.5320	192.7701	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	303.1293	201.3692	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	252.9123	370.4545	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	235,564	320.9449	214.6996	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	326.9937	219.2578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	225.6265	332.7688	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	351.7265	238.0688	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	377.3020	257.7940	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	207.7239	307.5672	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	417.1751	289.0816	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	181.6642	270.9408	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	437.7642	306.2408	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	175.6226	262.6554	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	451.7226	317.9554	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	480.1791	342.0269	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	161.3013	242.8769	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	150.6190	227.9896	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	135.8090	207.1523	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	561.9090	412.4523	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	569.5763	419.1485	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	114.1053	176.1674	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	640.2053	481.4674	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	112.1250	173.3119	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	110.1773	170.4988	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	697.0130	532.3473	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	95.7166	149.4552	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	755.2895	585.1615	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	87.6240	137.5551	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	763.7240	592.8551	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	79.9654	126.5476	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	806.0654	631.8476	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	77.0838	122.3835	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	74.3002	118.3499	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	72.9452	116.3797	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	892.6165	712.2955	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	55.2581	90.3715	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	20,000	981.3581	795.6715	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	54.2391	88.8096	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	46.7266	77.1863	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	45.8626	75.8402	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	41.7729	69.4421	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	38.0441	63.5691	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.20 Put	50	1164.1441	968.8691	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1210.7462	1013.4801	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1257.6513	1058.5403	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	27.6781	47.0118	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	23.3625	40.0550	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	22.4489	38.6542	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	21.5702	37.3025	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1447.6702	1242.6025	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	21.1438	36.6445	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	18.0166	31.7846	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	17.6593	31.2246	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	17.3087	30.6746	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	14.4490	26.1468	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	13.6041	24.7937	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1777.0055	1565.3991	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	10.6885	19.7122	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	9.4740	17.5386	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	7.9068	14.7124	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	6.3413	11.8624	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	5.9716	11.1849	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	5.2965	9.9433	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	4.8901	9.1928	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	2.5949	4.9096	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	1.6262	3.0758	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	1.4649	2.0903	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.6404	2.2816	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	15.9583	12.2082	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	51.0169	39.1699	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	54.1479	41.5932	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	96.6814	73.1254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	100.2092	75.1945	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	115.2648	83.9922	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	125.4603	91.8868	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	140.7887	103.8830	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	147.7450	109.3582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	172.6509	129.1233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	194.5381	146.6749	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	203.2045	153.6715	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	215.1593	163.3563	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	233.9476	178.6664	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	247.0505	189.4027	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	264.0867	203.4306	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.60 Put	9,570	283.0226	218.1425	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	314.9660	243.1289	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	323.2659	249.6547	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	331.6908	256.2966	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	344.5604	266.4703	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	362.1535	281.4052	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	389.4706	304.7518	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	394.1330	308.7494	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	413.0776	325.0488	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	17,406	462.5543	367.9348	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	483.1752	385.9374	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	570.2866	462.7245	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	616.7796	503.9248	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	559.5752	668.6127	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	659.2368	541.4715	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	702.9711	580.3830	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	715.6962	591.7479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	722.0963	597.4691	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	492.2414	589.2014	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	485.2627	581.0883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	754.4627	626.9883	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	774.1757	645.0211	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	794.1028	663.2848	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	855.1312	719.4524	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	917.9625	777.6153	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	968.0178	824.1763	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	975.2509	830.9204	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	982.5042	837.6871	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	989.7743	844.4729	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	0	342.0087	413.0021	0.0000	0.0000	200	0.00
Mar 2019	ZAUS	15.00 Call	200	339.5911	410.1299	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1139.2982	984.7526	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1185.5765	1028.4280	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1201.1387	1043.1429	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1208.9446	1050.5256	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	301.1310	364.3992	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1256.1203	1095.3178	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1264.0386	1102.8541	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	290.7220	352.0802	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1360.2431	1194.6502	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	247.5917	300.8719	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	245.8821	298.8361	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	15.50 Call	224,757	239.1722	290.8415	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	235.8932	286.9321	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	232.6611	283.0802	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	214.2853	261.1317	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	192.6320	236.3125	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	189.8810	233.2079	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	181.8779	224.1672	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	170.5415	210.5888	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	168.1256	207.6755	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	153.2970	189.7448	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	136.0100	168.7723	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	128.6210	159.7873	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	112.0164	139.5381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	110.4908	137.6741	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	86.6656	108.4682	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	86.0936	107.7639	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	83.2913	104.3162	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	80.0650	100.3427	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	79.5411	99.6982	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	79.0211	99.0568	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	73.6278	91.1470	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	70.9279	87.1900	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	63.9224	78.5397	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	50.1517	62.6479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	42.0289	53.2489	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.1907	7.3089	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	70.6280	50.8440	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	145.8856	111.9833	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	198.0865	155.9709	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	203.1527	160.2858	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	270.7835	218.0041	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	496.5849	410.5364	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	520.5689	431.3179	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	971.2112	1103.3070	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	776.7482	886.6342	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	715.8329	818.3778	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	946.9118	820.6549	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	633.4897	725.8587	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,000	549.8680	631.4036	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	426.6750	490.3738	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	391.7048	450.4960	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	369.4023	426.0183	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	16.00 Call	20	354.9254	410.5764	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	153.5913	176.4398	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	14.9062	14.5218	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	134.6758	99.9028	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	621.9425	532.8325	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	652.0670	558.4650	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	714.4437	613.0989	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	741.2597	637.7675	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	779.5941	673.1303	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	847.4298	735.9538	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	1083.9611	958.4386	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1534.6438	1387.1750	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1667.9431	1514.6592	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	581.5584	650.0860	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	352.7487	396.7390	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	310.6655	344.7577	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	294.2181	323.6745	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	288.3533	317.0344	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	264.4250	289.9277	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	253.8171	277.9142	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	245.0653	268.0026	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	242.9698	265.6279	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	191.9944	228.4118	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	66.2332	50.4940	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	575.4694	498.0248	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	488.5131	539.4120	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	243.9610	283.6636	0.0000	0.0000	0	0.00		
			<u>8,174,960</u>					<u>200.00</u>	<u>0.00</u>	<u>61 488 049.00</u>	<u>0.00</u>
	Total		9,077,834					79,092.00	1,123,213,647.50	251 036 551.00	2 274 902 712 595.70
	Grand Total		10,818,419					157,936.00	2 157 598 296.10	343,553,825	3,153,969,891,214.93