



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 10-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Feb 2019	DAEU	Future	26	16.6269	16.1770	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.6790	16.2279	0.0000	0.0000	0	0.00
			<u>79</u>					<u>0.00</u>	<u>0.00</u>
									<u>801 552.00</u>
									<u>11 969 588 805.00</u>
Option									
Dec 2018	DAEU	15.83 Put	32,000	37.2721	167.0011	0.0000	0.0000	0	0.00
Jan 2019	DAEU	15.85 Put	13,000	68.9801	199.0158	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	831.1404	1075.3436	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	367.4776	283.9180	0.0000	0.0000	0	0.00
			<u>123,600</u>					<u>0.00</u>	<u>0.00</u>
		Total	123,679					0.00	0.00
									<u>2 312 139.00</u>
									<u>11 969 588 805.00</u>
Future									
Jan 2019	DAGB	Future	27	18.2757	17.9795	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.3622	18.0655	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.4540	18.1557	0.0000	0.0000	0	0.00
			<u>154</u>					<u>0.00</u>	<u>0.00</u>
		Total	154					0.00	0.00
									<u>54 134.00</u>
									<u>892 317 851.50</u>
Future									
Dec 2018	DAUS	Future	3,672	14.3393	13.9716	0.0000	0.0000	117	1,662,570.00
Dec 2018	DAUS	Future	160	14.3504	13.9847	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	1,952	14.3682	14.0021	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.3717	14.0056	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	150	14.3949	14.0283	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.3966	14.0300	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	51	14.4124	14.0457	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.4211	14.0545	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,655	14.4229	14.0562	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	14.4456	14.0789	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	6	14.4491	14.0824	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	15	14.4668	14.0997	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,025	14.4721	14.1049	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.4791	14.1118	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.4809	14.1135	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.5202	14.1517	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	14.5238	14.1552	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.5310	14.1622	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.5815	14.2108	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.6374	14.2647	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.6446	14.2716	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.6887	14.3144	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.6943	14.3198	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.7520	14.3756	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.8115	14.4333	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.8152	14.4369	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.8683	14.4874	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.9238	14.5398	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.9849	14.5976	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.9888	14.6012	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.0474	14.6583	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.1072	14.7169	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.1711	14.7796	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2350	14.8422	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.2907	14.8968	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.3608	14.9655	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.4763	15.0787	0.0000	0.0000	0	0.00		
			<u>110,271</u>					<u>117.00</u>	<u>1,662,570.00</u>	<u>10 969 924.00</u>	<u>134 764 239 849.50</u>
Option											
Dec 2018	DAUS	13.65 Put	20,000	0.1732	13.9561	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.86 Put	7,500	1.5373	49.4533	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.08 Call	7,500	0.9330	0.5279	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.69 Call	20,000	0.0282	0.0842	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.90 Put	35,000	42.3335	158.3402	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.98 Put	18,000	60.0942	197.4925	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.30 Put	35,000	180.0364	409.6058	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.90 Put	35,000	604.1685	935.4127	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.30 Put	35,000	969.5080	1322.8455	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.20 Put	1,000	4.7914	11.1825	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.30 Put	1,000	5.9083	14.3179	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.85 Put	0	38.3946	143.1370	0.0000	0.0000	25,000	0.00		
Dec 2018	DAUS	14.10 Put	25,000	103.6435	0.0000	0.0000	0.0000	25,000	0.00		
Dec 2018	DAUS	14.66 Call	1,000	108.1657	41.3364	0.0000	0.0000	0	0.00		

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Dec 2018	DAUS	14.75 Call	1,000	87.2709	32.5145	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	6.6934	13.4747	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	58.4213	152.9236	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	340.6369	167.0054	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	206.1103	405.7598	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	684.0618	995.9243	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	1.9099	0.9448	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	1.2232	1.1142	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	32.1002	85.9742	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	541.1301	299.1580	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	289.7926	144.1193	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	45.7144	116.0821	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	432.4851	233.0105	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	194.2240	95.6078	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	109.8739	227.5759	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	548.4571	324.6988	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	4.4157	10.3534	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	13.7279	39.0404	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	284.7423	460.8777	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	308.2560	492.9274	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	417.2274	256.7780	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	181.1343	104.6569	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	122.4728	69.6991	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	38.0082	73.4388	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	351.8256	521.7812	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	375.8209	552.7120	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	473.2694	317.8271	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	246.1794	159.4613	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	180.0362	114.8537	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	265.4002	398.3716	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	312.9635	458.9302	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	63.9633	106.8820	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	406.5974	574.4437	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	430.9500	604.6546	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	519.8433	369.6532	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	299.8724	209.4229	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	232.4299	159.9043	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	237.3893	357.7447	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	680.2798	495.3857	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	91.8743	139.3635	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1280.6941	1001.0210	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	454.0582	620.4458	0.0000	0.0000	0	0.00

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Apr 2019	DAUS	14.25 Put	250	478.5874	650.0618	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	559.6018	414.3886	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	347.2241	255.3066	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	281.6524	203.4819	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	116.1950	169.5673	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	494.2303	659.6888	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	518.8442	688.6718	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	592.8636	451.6517	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	387.2375	292.7744	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	320.2600	238.7064	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	801.2396	1008.0590	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	213.5651	164.0610	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	133.9919	194.0030	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	525.0859	690.6118	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	549.8075	719.4540	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	619.1766	482.0947	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	419.7037	323.7876	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	352.3973	269.8237	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	242.8989	337.8309	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	342.3632	263.1759	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	151.1685	220.3467	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	556.2350	721.9247	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	581.0549	750.6184	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	653.7558	519.5737	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	459.0168	360.9230	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	391.6783	306.9327	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	713.2418	898.6596	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	445.8361	352.2859	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	165.3809	243.5188	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	582.0787	746.8319	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	606.9348	775.4159	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	675.9378	545.5341	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	486.8981	388.5720	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	418.6577	333.8448	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	209.4670	169.3203	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	176.5629	263.1826	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	604.8144	769.5968	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	629.6656	798.0043	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	704.6603	575.2670	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	517.5267	418.5420	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	447.2572	361.6283	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	188.6079	280.3808	0.0000	0.0000	0	0.00

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Oct 2019	DAUS	14.20 Put	250	626.4394	791.5397	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	651.2770	819.7560	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	725.7291	598.1010	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	542.1456	443.6750	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	474.0340	388.0985	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	196.7518	293.2071	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	645.7494	809.7953	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	669.0867	837.8569	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	748.6740	621.9664	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	567.4050	468.7099	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	500.5516	413.9707	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	217.8888	307.3784	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	672.5575	828.4661	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	696.2442	856.4278	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	783.3727	650.2567	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	605.3546	500.3903	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	539.3230	446.2138	0.0000	0.0000	0	0.00		
			<u>519,655</u>					<u>50,000.00</u>	<u>0.00</u>	<u>22 052 231.00</u>	<u>0.00</u>
	Total		629,926					50,117.00	1,662,570.00	33 022 155.00	134 764 239 849.50
Future											
Dec 2018	EUUS	Future	60	1.1408	1.1390	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1595	1.1576	0.0000	0.0000	0	0.00		
			<u>642</u>					<u>0.00</u>	<u>0.00</u>	<u>745 297.00</u>	<u>8 454 976 850.00</u>
	Total		642					0.00	0.00	745 297.00	8 454 976 850.00
Future											
Dec 2018	GBUS	Future	250	1.2636	1.2756	0.0000	0.0000	0	0.00		
			<u>250</u>					<u>0.00</u>	<u>0.00</u>	<u>170 247.00</u>	<u>2 190 752 058.00</u>
	Total		250					0.00	0.00	170 247.00	2 190 752 058.00
Future											
Dec 2018	ZAAD	Future	21,377	10.3410	10.1104	10.2050	10.2050	2,881	29,757,208.80		
Mar 2019	ZAAD	Future	368	10.4755	10.2442	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,934	10.6062	10.3718	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.8932	10.6497	0.0000	0.0000	0	0.00		
			<u>27,079</u>					<u>2,881.00</u>	<u>29,757,208.80</u>	<u>3 779 156.00</u>	<u>32 997 025 039.30</u>
	Total		28,079					2,881.00	29,757,208.80	3 813 533.00	32 997 025 039.30
Option											
Dec 2019	ZAAD	11.00 Call	1,000	583.3533	478.2648	0.0000	0.0000	0	0.00		
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>	<u>0.00</u>
	Total		28,079					2,881.00	29,757,208.80	3 813 533.00	32 997 025 039.30

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Future										
Dec 2018	ZACA	Future	850	10.7368	10.5346	0.0000	0.0000	0	0.00	
Mar 2019	ZACA	Future	150	10.8837	10.6808	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	250	11.0374	10.8354	0.0000	0.0000	0	0.00	
			<u>1,250</u>					<u>0.00</u>	<u>0.00</u>	<u>141 913.00</u>
	Total		1,250					0.00	0.00	141 913.00
Future										
Dec 2018	ZADK	Future	140	2.2021	2.1419	0.0000	0.0000	0	0.00	
Jun 2019	ZADK	Future	250	2.2898	2.2280	0.0000	0.0000	0	0.00	
			<u>390</u>					<u>0.00</u>	<u>0.00</u>	<u>12 985.00</u>
	Total		390					0.00	0.00	12 985.00
Future										
Dec 2018	ZAEU	Future	78,969	16.3602	15.9169	16.3554	16.1370	22,746	367,489,801.80	
Mar 2019	ZAEU	Future	72,186	16.6892	16.2378	16.6744	16.4618	6,926	113,949,069.90	
Jun 2019	ZAEU	Future	24,389	17.0014	16.5407	16.8618	16.7570	19,347	325,073,068.00	
Sep 2019	ZAEU	Future	8,596	17.3489	16.8784	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	Future	277	17.6815	17.1972	0.0000	0.0000	0	0.00	
			<u>184,417</u>					<u>49,019.00</u>	<u>806,511,939.70</u>	<u>15 864 104.00</u>
	Total							49,019.00	806,511,939.70	15 864 104.00
Option										
Mar 2019	ZAEU	16.00 Call	650	945.9560	660.1272	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	644.8500	509.2312	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	60.2081	73.4673	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	455.6297	602.4289	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	511.7368	413.8599	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		291,517					49,019.00	806,511,939.70	26 820 980.00
Future										
Dec 2018	ZAFR	Future	1,066	14.5005	14.0855	14.3000	14.3000	250	3,575,000.00	
Jun 2019	ZAFR	Future	150	15.0993	14.6688	0.0000	0.0000	0	0.00	
			<u>1,216</u>					<u>250.00</u>	<u>3,575,000.00</u>	<u>621 808.00</u>
	Total		1,216					250.00	3,575,000.00	6 685 388 232.80
Future										
Dec 2018	ZAGB	Future	53,561	18.1203	17.8256	18.1272	17.9800	338,222	6,082,613,532.00	
Mar 2019	ZAGB	Future	375,800	18.4187	18.1211	18.4076	18.2825	337,992	6,175,121,842.00	
Jun 2019	ZAGB	Future	5,889	18.6991	18.3961	0.0000	0.0000	350	6,518,050.00	
Sep 2019	ZAGB	Future	13,225	19.0088	18.6996	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	247	19.3044	18.9856	0.0000	0.0000	0	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
			448,722					676,564.00	12,264,253,424.00	13 679 575.00	233 753 000 932.40	
Option												
	Dec 2018	ZAGB	19.30 Call	200	10.4684	3.8002	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	18.00 Put	500	485.1689	600.4296	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.00 Call	2,500	459.4467	350.1809	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.19 Put	1,000	1172.4352	1373.3239	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.00 Call	500	223.0248	165.2521	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.18 Call	1,500	195.3759	143.4567	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	21.44 Call	500	73.1723	52.8629	0.0000	0.0000	0	0.00		
			6,700					0.00	0.00	1 783 113.00	0.00	
	Total		455,422					676,564.00	12,264,253,424.00	15 462 688.00	233 753 000 932.40	
Future												
	Dec 2018	ZAJY	Future	6,905	0.1270	0.1239	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	0.1378	0.1342	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												
	Mar 2019	ZATR	Future	14,000	2.5836	2.5404	0.0000	0.0000	0	0.00		
				14,000					0.00	0.00	409 239.00	1 293 087 569.00
	Total		14,000					0.00	0.00	409 239.00	1 293 087 569.00	
Future												
	Dec 2018	ZAUM	Future	444	14.3407	13.9743	0.0000	0.0000	20	28,420,000.00		
	Mar 2019	ZAUM	Future	10	14.5040	14.1361	0.0000	0.0000	0	0.00		
				454					20.00	28,420,000.00	154 254.00	178 633 364 970.00
	Total		454					20.00	28,420,000.00	158 777.00	178 633 364 970.00	
Future												
	Dec 2018	ZAUS	Future	394,707	14.3407	13.9743	14.3851	14.1075	309,794	4,382,640,603.90		
	Mar 2019	ZAUS	Future	313,569	14.5040	14.1361	14.5400	14.2703	224,195	3,202,103,202.30		
	Jun 2019	ZAUS	Future	41,666	14.6627	14.2892	0.0000	0.0000	19,518	281,681,083.60		
	Sep 2019	ZAUS	Future	14,244	14.8377	14.4585	14.8200	14.7946	150	2,220,490.00		
	Dec 2019	ZAUS	Future	9,900	15.0061	14.6179	0.0000	0.0000	0	0.00		
	Mar 2020	ZAUS	Future	4,166	15.2000	14.8079	15.1341	15.1300	200	3,026,410.00		
			778,252						553,857.00	7,871,671,789.80	191 578 568.00	2 303 286 205 030.30

<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>	
Option										
Dec 2018	ZAUS	11.64 Put	2,764	0.0000	0.0000	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	11.75 Put	228,616	0.0000	0.0000	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	11.90 Put	11,300	0.0000	0.0000	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.00 Put	174,530	0.0000	0.0002	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.02 Put	5,500	0.0000	0.0003	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.10 Put	8,580	0.0000	0.0009	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.20 Put	7,300	0.0000	0.0039	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.25 Put	3,300	0.0000	0.0075	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.38 Put	39,589	0.0001	0.0364	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.50 Call	228,616	1840.7010	1474.4305	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.50 Put	26,400	0.0010	0.1305	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.63 Put	39,589	0.0062	0.3292	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.68 Put	10,000	0.0118	0.4322	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.75 Put	1,000	0.0278	0.6304	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.95 Put	500	0.1891	1.8033	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.00 Call	4,500	1340.9490	976.6289	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.00 Put	72,280	0.2490	2.3289	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.05 Put	1,500	0.3275	2.9985	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.10 Put	11,300	0.4301	3.8483	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.20 Call	5,000	1141.4379	780.5734	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.22 Put	5,500	0.8212	6.9055	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.25 Call	10,000	1091.6637	732.2655	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.25 Put	17,800	0.9637	7.9655	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.32 Put	13,650	1.3958	10.9903	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.33 Put	135,000	1.4712	11.5010	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.45 Call	500	893.4435	543.8989	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.45 Put	4,080	2.7435	19.5989	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.50 Call	228,616	844.2409	498.6030	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.50 Put	29,800	3.5409	24.3030	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.60 Put	68,500	5.8457	36.8649	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.68 Put	13,150	8.7087	50.7280	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.70 Put	7,300	9.6322	54.8277	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.75 Put	700	12.3450	66.3292	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.79 Put	10,000	14.9949	76.9308	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.80 Call	500	556.4330	254.0898	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.80 Put	500	15.7330	79.7898	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.90 Put	35,000	25.1035	113.4009	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.95 Call	39,589	422.1162	158.2230	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	14.00 Call	20,000	379.7621	135.4077	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	14.00 Put	53,250	39.0621	161.1077	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	14.10 Put	1,867	59.1767	223.2620	0.0000	0.0000	0	0.00	

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Dec 2018	ZAUS	14.12 Put	4,372	64.0875	236.8478	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	277.3653	88.0755	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	115,000	72.0733	257.8911	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	74.9074	265.0758	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	227.8458	68.9248	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	87.1458	294.6248	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	100.9037	325.3878	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	195.2918	57.5554	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	124.5870	373.5755	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	148.5690	42.7935	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	137.8690	398.4935	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	137.9736	39.6824	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	147.2736	415.3824	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	170.1747	449.7707	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	116.8700	32.7868	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	101.8890	28.0851	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	82.3687	22.1975	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	241.6687	547.8975	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	248.7390	557.0368	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	56.8125	14.8942	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	316.1125	640.5942	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	54.6821	14.3061	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	52.6214	13.7400	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	372.6115	707.0419	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	38.4581	10.2133	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	432.0501	774.5900	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	31.4487	8.5887	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	440.7487	784.2887	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	25.6243	7.2365	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	484.9243	832.9365	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	23.5870	6.7613	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	21.7006	6.3194	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	20.8108	6.1101	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	576.1524	930.8706	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	10.9692	3.7290	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	670.2692	1029.4290	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	10.5033	3.6110	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	7.7874	2.8024	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	7.5521	2.7163	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	6.4940	2.3273	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	5.6076	1.9994	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	864.9076	1227.6994	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.25 Put	500	914.1624	1277.4222	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	963.5337	1327.1875	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	3.5115	1.2011	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	2.7929	0.8769	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	2.6588	0.8182	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	2.5328	0.7636	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1161.8328	1526.4636	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	2.4726	0.7377	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	2.0508	0.5611	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	2.0047	0.5424	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	1.9600	0.5243	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	1.6099	0.3876	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	1.5114	0.3509	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1500.4438	1865.9448	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	17,300	1.1059	0.2370	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	0.9042	0.1955	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	0.6705	0.1472	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	0.4678	0.1048	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	0.4245	0.0957	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.3501	0.0799	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.3082	0.0710	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.1151	0.0287	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.0574	0.0206	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.0330	0.0373	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	0.9931	1.3513	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	8.7666	13.3682	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	25.7750	37.8154	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	27.3065	40.0043	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	6,332	41.3112	62.4490	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	47.5624	77.1381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	48.9149	80.3614	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	54.7036	94.2504	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	58.6447	103.7750	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	67.9018	118.2493	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	72.1886	124.8717	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	87.9470	148.8384	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	102.2704	170.1732	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	108.0561	178.6833	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	116.1299	190.4731	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	129.0385	209.3083	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	138.1873	223.1479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	150.2536	241.2231	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.60 Put	6,570	163.0329	260.1681	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	168.3468	267.9892	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	184.9984	292.2856	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	190.7868	300.6616	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	196.6958	309.1732	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	205.7894	322.2035	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	218.3395	340.0584	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	239.1981	367.8657	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	242.8253	372.6190	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	257.6679	391.9666	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	801.1101	578.7744	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	22,406	297.1101	442.6744	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	313.8169	463.8755	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	689.9336	490.5960	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	664.1795	471.0394	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	425.1114	603.5619	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	639.2249	452.2233	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	461.0567	648.0219	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	498.5301	693.8493	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	509.5123	707.1845	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	515.0488	713.8918	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	564.6153	396.7254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	555.8380	390.2737	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	547.1796	383.9223	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	543.1796	747.8223	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	560.7485	768.4887	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	578.5800	789.3797	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	633.6124	853.3550	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	690.8784	919.1965	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	434.2465	300.1727	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	736.8966	971.6245	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	743.5719	979.1968	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	750.2753	986.7895	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	757.0007	994.4052	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	371.8925	255.1890	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	896.5374	1150.9954	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	940.1599	1199.3632	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	954.8686	1215.6185	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	962.2542	1223.7690	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	326.0039	222.6312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1007.0010	1273.0065	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1014.5280	1281.2680	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	15.22 Call	2,785	313.6433	213.9313	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	306.4571	208.8890	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1106.3412	1381.5236	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	273.0034	185.5600	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	262.7246	178.4361	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	260.7190	177.0473	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	252.8529	171.6157	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	249.0174	168.9679	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	245.2416	166.3679	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	223.8466	150.8055	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	199.9033	133.4217	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	196.9274	131.2696	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	188.2932	125.0401	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	175.8877	116.2863	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	173.1545	114.4332	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	156.4447	103.1438	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	137.1378	90.1916	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	128.9529	84.7288	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	110.7201	72.6228	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	109.0582	71.5237	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	83.3987	54.6465	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	82.7900	54.2478	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	79.8168	52.3834	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	76.4060	50.3844	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	75.8532	50.0608	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	75.3063	49.7399	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	68.5787	45.7960	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	65.2402	43.8382	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	57.0566	38.8126	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	42.1830	29.1921	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	33.7282	23.7048	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	5.8965	7.4896	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	41.6718	65.5003	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	88.4168	129.2101	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	122.4920	177.3897	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	125.8634	182.3456	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	172.6148	249.2050	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	349.6331	480.1403	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	368.3977	504.5861	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1092.5061	864.5696	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	866.4234	676.4210	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	795.5503	618.6472	0.0000	0.0000	0	0.00

