



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 07-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
<b>Future</b>									
Feb 2019	DAEU	Future	26	16.1770	16.4335	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.2279	16.4850	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>
<b>Option</b>									
Dec 2018	DAEU	15.83 Put	32,000	167.0011	80.5867	0.0000	0.0000	0	0.00
Jan 2019	DAEU	15.85 Put	13,000	199.0158	118.8876	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	1075.3436	933.5705	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	283.9180	330.2613	0.0000	0.0000	0	0.00
			<u>123,600</u>					<u>0.00</u>	<u>0.00</u>
		<b>Total</b>	<b>123,679</b>					<b>0.00</b>	<b>0.00</b>
									<u>2 312 139.00</u>
									<u>11 969 588 805.00</u>
<b>Future</b>									
Jan 2019	DAGB	Future	27	17.9795	18.2932	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.0655	18.3806	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.1557	18.4732	0.0000	0.0000	0	0.00
			<u>154</u>					<u>0.00</u>	<u>0.00</u>
		<b>Total</b>	<b>154</b>					<b>0.00</b>	<b>0.00</b>
									<u>54 134.00</u>
									<u>892 317 851.50</u>
<b>Future</b>									
Dec 2018	DAUS	Future	0	13.9700	14.1843	0.0000	0.0000	500	6,985,000.00
Dec 2018	DAUS	Future	3,672	13.9716	14.1828	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	160	13.9847	14.1979	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	1,952	14.0021	14.2149	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.0056	14.2183	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	150	14.0283	14.2406	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.0300	14.2424	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	51	14.0457	14.2582	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.0545	14.2670	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,655	14.0562	14.2687	0.0000	0.0000	392	5,552,288.00
Feb 2019	DAUS	Future	70	14.0789	14.2916	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>		
Feb 2019	DAUS	Future	6	14.0824	14.2951	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.0997	14.3127	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,025	14.1049	14.3180	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.1118	14.3480	0.0000	0.0000	74	1,061,752.00		
Mar 2019	DAUS	Future	80	14.1135	14.3267	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.1517	14.3662	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	14.1552	14.3698	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.1622	14.3770	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.2108	14.4275	0.0000	0.0000	300	4,301,340.00		
May 2019	DAUS	Future	875	14.2647	14.4834	0.0000	0.0000	650	9,356,035.00		
Jun 2019	DAUS	Future	74	14.2716	14.5110	0.0000	0.0000	74	1,073,814.00		
Jun 2019	DAUS	Future	505	14.3144	14.5344	0.0000	0.0000	335	4,838,606.00		
Jul 2019	DAUS	Future	55	14.3198	14.5399	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.3756	14.5967	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.4333	14.6553	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.4369	14.6755	0.0000	0.0000	74	1,085,987.00		
Oct 2019	DAUS	Future	55	14.4874	14.7114	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.5398	14.7661	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.5976	14.8264	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.6012	14.8430	0.0000	0.0000	321	4,764,603.00		
Jan 2020	DAUS	Future	55	14.6583	14.8869	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.7169	14.9440	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.7796	15.0051	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.8422	15.0663	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.8968	15.1195	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.9655	15.1865	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.0787	15.2969	0.0000	0.0000	0	0.00		
			<u>110,271</u>					<u>2,720.00</u>	<u>39,019,425.00</u>	<u>10 969 807.00</u>	<u>134 762 577 279.50</u>
<b>Option</b>											
Dec 2018	DAUS	13.65 Put	20,000	13.9561	12.0017	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.86 Put	7,500	49.4533	34.8343	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.08 Call	7,500	0.5279	5.3148	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.69 Call	20,000	0.0842	0.9498	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.90 Put	35,000	158.3402	91.1295	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.98 Put	18,000	197.4925	118.7019	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.30 Put	35,000	409.6058	278.3310	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.90 Put	35,000	935.4127	746.6287	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.30 Put	35,000	1322.8455	1118.9875	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.20 Put	1,000	11.1825	7.8224	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.30 Put	1,000	14.3179	10.1920	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.85 Put	25,000	143.1370	0.0000	0.0000	0.0000	25,000	0.00		
Dec 2018	DAUS	14.66 Call	1,000	41.3364	81.9197	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	32.5145	66.5191	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	13.4747	8.5973	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	152.9236	93.5219	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	167.0054	261.5483	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	405.7598	283.7766	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	995.9243	813.6308	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	0.9448	1.5635	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	1.1142	1.3943	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	85.9742	49.3653	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	299.1580	434.9122	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	144.1193	224.4795	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	116.0821	69.9796	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	233.0105	343.3003	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	95.6078	149.9034	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	227.5759	156.6836	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	324.6988	451.7629	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	10.3534	5.4338	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	39.0404	23.8090	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	460.8777	355.8983	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	492.9274	382.6327	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	256.7780	348.0417	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	104.6569	148.3879	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	69.6991	99.7403	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	73.4388	52.3498	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	521.7812	422.1383	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	552.7120	448.7805	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	317.8271	408.0483	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	159.4613	210.3026	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	114.8537	153.4391	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	398.3716	320.7260	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	458.9302	374.0166	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	106.8820	80.6390	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	574.4437	477.0872	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	604.6546	503.7302	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	369.6532	458.1422	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	209.4229	263.0924	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	159.9043	203.7698	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	357.7447	286.2048	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	495.3857	603.3175	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	139.3635	109.7088	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1001.0210	1165.3187	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	620.4458	524.0040	0.0000	0.0000	0	0.00

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Apr 2019	DAUS	14.25 Put	250	650.0618	550.6253	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	414.3886	500.9071	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	255.3066	310.1229	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	203.4819	250.6994	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	169.5673	138.2581	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	659.6888	563.7724	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	688.6718	590.2653	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	451.6517	536.3663	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	292.7744	350.2337	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	238.7064	287.7207	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	1008.0590	887.9549	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	164.0610	192.6810	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	194.0030	159.1170	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	690.6118	594.2403	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	719.4540	620.6826	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	482.0947	564.0834	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	323.7876	382.6002	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	269.8237	319.3047	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	337.8309	283.0203	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	263.1759	310.3761	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	220.3467	179.5569	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	721.9247	624.9458	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	750.6184	651.3451	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	519.5737	598.7802	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	360.9230	419.7187	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	306.9327	356.6446	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	898.6596	790.0947	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	352.2859	407.1458	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	243.5188	196.9460	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	746.8319	650.2004	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	775.4159	676.5501	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	545.5341	622.1886	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	388.5720	445.8640	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	333.8448	382.8071	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	169.3203	194.8329	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	263.1826	210.3247	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	769.5968	672.2560	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	798.0043	698.5157	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	575.2670	650.9983	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	418.5420	475.6751	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	361.6283	410.5023	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	280.3808	222.2734	0.0000	0.0000	0	0.00

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Oct 2019	DAUS	14.20 Put	250	791.5397	693.2298	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	819.7560	719.3940	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	598.1010	672.2763	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	443.6750	500.2417	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	388.0985	436.8340	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	293.2071	238.8060	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	809.7953	710.9545	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	837.8569	737.0117	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	621.9664	695.1304	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	468.7099	524.7238	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	413.9707	462.6285	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	307.3784	253.8474	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	828.4661	732.0219	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	856.4278	757.9722	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	650.2567	723.8080	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	500.3903	556.4864	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	446.2138	495.0423	0.0000	0.0000	0	0.00		
			<u>519,655</u>					<u>25,000.00</u>	<u>0.00</u>	<u>22 002 231.00</u>	<u>0.00</u>
	<b>Total</b>		<b>629,926</b>					<b>27,720.00</b>	<b>39,019,425.00</b>	<b>32 972 038.00</b>	<b>134 762 577 279.50</b>
<b>Future</b>											
Dec 2018	EUUS	Future	60	1.1390	1.1398	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1576	1.1584	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>
	<b>Total</b>		<b>642</b>					<b>0.00</b>	<b>0.00</b>	<b>745 297.00</b>	<b>8 454 976 850.00</b>
<b>Future</b>											
Dec 2018	GBUS	Future	250	1.2756	1.2785	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>
	<b>Total</b>		<b>250</b>					<b>0.00</b>	<b>0.00</b>	<b>170 247.00</b>	<b>2 190 752 058.00</b>
<b>Future</b>											
Dec 2018	ZAAD	Future	19,989	10.1104	10.2459	10.2231	10.1564	292	2,979,008.80		
Mar 2019	ZAAD	Future	368	10.2442	10.3815	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,934	10.3718	10.5134	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.6497	10.7978	0.0000	0.0000	0	0.00		
			<u>25,691</u>					<u>292.00</u>	<u>2,979,008.80</u>	<u>3 776 275.00</u>	<u>32 967 267 830.50</u>
<b>Option</b>											
Dec 2019	ZAAD	11.00 Call	1,000	478.2648	540.2601	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>
	<b>Total</b>		<b>26,691</b>					<b>292.00</b>	<b>2,979,008.80</b>	<b>3 810 652.00</b>	<b>32 967 267 830.50</b>

<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>	
<b>Future</b>										
Dec 2018	ZACA	Future	850	10.5346	10.5769	0.0000	0.0000	0	0.00	
Mar 2019	ZACA	Future	150	10.6808	10.7223	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	250	10.8354	10.8788	0.0000	0.0000	0	0.00	
			<u>1,250</u>					<u>0.00</u>	<u>0.00</u>	<u>141 913.00</u>
	<b>Total</b>		<b>1,250</b>					<b>0.00</b>	<b>0.00</b>	<b>141 913.00</b>
<b>Future</b>										
Dec 2018	ZADK	Future	140	2.1419	2.1760	0.0000	0.0000	0	0.00	
Jun 2019	ZADK	Future	250	2.2280	2.2636	0.0000	0.0000	0	0.00	
			<u>390</u>					<u>0.00</u>	<u>0.00</u>	<u>12 985.00</u>
	<b>Total</b>		<b>390</b>					<b>0.00</b>	<b>0.00</b>	<b>12 985.00</b>
<b>Future</b>										
Dec 2018	ZAEU	Future	97,964	15.9169	16.1699	16.0997	16.0526	35,373	569,169,942.70	
Mar 2019	ZAEU	Future	71,868	16.2378	16.4955	16.2435	16.2430	34,301	562,636,921.50	
Jun 2019	ZAEU	Future	5,042	16.5407	16.8068	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	Future	8,596	16.8784	17.1493	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	Future	277	17.1972	17.4765	0.0000	0.0000	0	0.00	
			<u>183,747</u>					<u>69,674.00</u>	<u>1,131,806,864.20</u>	<u>15 815 085.00</u>
<b>Option</b>										
Mar 2019	ZAEU	16.00 Call	650	660.1272	817.9544	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	509.2312	585.9012	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	73.4673	67.5789	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	602.4289	519.2017	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	413.8599	467.0117	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>
	<b>Total</b>		<b>290,847</b>					<b>69,674.00</b>	<b>1,131,806,864.20</b>	<b>26 771 961.00</b>
<b>Future</b>										
Dec 2018	ZAFR	Future	1,066	14.0855	14.3195	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	14.6688	14.9160	0.0000	0.0000	0	0.00	
			<u>1,216</u>					<u>0.00</u>	<u>0.00</u>	<u>621 558.00</u>
	<b>Total</b>		<b>1,216</b>					<b>0.00</b>	<b>0.00</b>	<b>621 558.00</b>
<b>Future</b>										
Dec 2018	ZAGB	Future	391,738	17.8256	18.1374	18.0545	18.0545	26,870	486,309,300.00	
Mar 2019	ZAGB	Future	37,928	18.1211	18.4376	18.2750	18.2750	25,980	477,793,977.50	
Jun 2019	ZAGB	Future	5,539	18.3961	18.7212	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	13,225	18.6996	19.0299	18.9968	18.9968	80	1,519,744.00	
Dec 2019	ZAGB	Future	247	18.9856	19.3256	0.0000	0.0000	0	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
			448,677					52,930.00	965,623,021.50	13 003 011.00	221 488 747 508.40	
<b>Option</b>												
	Dec 2018	ZAGB	19.30 Call	200	3.8002	10.8678	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	18.00 Put	500	600.4296	465.0273	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.00 Call	2,500	350.1809	455.2211	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.19 Put	1,000	1373.3239	1149.3743	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.00 Call	500	165.2521	219.6760	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.18 Call	1,500	143.4567	192.2865	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	21.44 Call	500	52.8629	72.6649	0.0000	0.0000	0	0.00		
			6,700					0.00	0.00	1 783 113.00	0.00	
	<b>Total</b>		<b>455,377</b>					<b>52,930.00</b>	<b>965,623,021.50</b>	<b>14 786 124.00</b>	<b>221 488 747 508.40</b>	
<b>Future</b>												
	Dec 2018	ZAJY	Future	6,905	0.1239	0.1263	0.0000	0.0000	0	0.00		
				6,905					0.00	0.00	1 021 902.00	11 470 576 312.50
	<b>Total</b>		<b>6,905</b>					<b>0.00</b>	<b>0.00</b>	<b>1 021 902.00</b>	<b>11 470 576 312.50</b>	
<b>Future</b>												
	Jun 2019	ZAKS	Future	2,166	0.1342	0.1364	0.0000	0.0000	0	0.00		
				2,166					0.00	0.00	38 066.00	515 662 000.00
	<b>Total</b>		<b>2,166</b>					<b>0.00</b>	<b>0.00</b>	<b>38 066.00</b>	<b>515 662 000.00</b>	
<b>Future</b>												
	Mar 2019	ZATR	Future	14,000	2.5404	2.5360	0.0000	0.0000	0	0.00		
				14,000					0.00	0.00	409 239.00	1 293 087 569.00
	<b>Total</b>		<b>14,000</b>					<b>0.00</b>	<b>0.00</b>	<b>409 239.00</b>	<b>1 293 087 569.00</b>	
<b>Future</b>												
	Dec 2018	ZAUM	Future	461	13.9743	14.1862	0.0000	0.0000	38	53,618,000.00		
	Mar 2019	ZAUM	Future	10	14.1361	14.3499	0.0000	0.0000	0	0.00		
				471					38.00	53,618,000.00	154 234.00	178 604 944 970.00
	<b>Total</b>		<b>471</b>					<b>38.00</b>	<b>53,618,000.00</b>	<b>158 757.00</b>	<b>178 604 944 970.00</b>	
<b>Future</b>												
	Dec 2018	ZAUS	Future	565,271	13.9743	14.1862	14.1866	13.9512	107,425	1,514,674,747.70		
	Mar 2019	ZAUS	Future	148,329	14.1361	14.3499	14.3429	14.0968	81,641	1,166,102,080.90		
	Jun 2019	ZAUS	Future	22,348	14.2892	14.5088	14.3467	14.3181	40	573,227.50		
	Sep 2019	ZAUS	Future	14,094	14.4585	14.6813	0.0000	0.0000	0	0.00		
	Dec 2019	ZAUS	Future	9,900	14.6179	14.8474	14.7600	14.7600	100	1,476,000.00		
	Mar 2020	ZAUS	Future	3,966	14.8079	15.0327	0.0000	0.0000	0	0.00		
			763,908						189,206.00	2,682,826,056.10	191 024 711.00	2 295 414 533 240.50

<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	0.0281	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	11.75 Put	228,616	0.0000	0.0368	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	11.90 Put	11,300	0.0000	0.0536	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.00 Put	174,530	0.0002	0.0692	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.02 Put	5,500	0.0003	0.0729	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.10 Put	8,580	0.0009	0.0899	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.20 Put	7,300	0.0039	0.1173	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.25 Put	3,300	0.0075	0.1342	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.38 Put	39,589	0.0364	0.1921	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.50 Call	228,616	1474.4305	1686.4698	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.50 Put	26,400	0.1305	0.2698	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.63 Put	39,589	0.3292	0.3945	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.68 Put	10,000	0.4322	0.4581	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.75 Put	1,000	0.6304	0.5666	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.95 Put	500	1.8033	1.0499	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.00 Call	4,500	976.6289	1187.4307	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.00 Put	72,280	2.3289	1.2307	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.05 Put	1,500	2.9985	1.4464	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.10 Put	11,300	3.8483	1.7042	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.20 Call	5,000	780.5734	988.5847	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.22 Put	5,500	6.9055	2.5537	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.25 Call	10,000	732.2655	939.0323	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.25 Put	17,800	7.9655	2.8323	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.32 Put	13,650	10.9903	3.6205	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.33 Put	135,000	11.5010	3.7514	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.45 Call	500	543.8989	741.9960	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.45 Put	4,080	19.5989	5.7960	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.50 Call	228,616	498.6030	693.1823	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.50 Put	29,800	24.3030	6.9823	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.60 Put	68,500	36.8649	13.1289	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.68 Put	13,150	50.7280	20.7625	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.70 Put	7,300	54.8277	23.1404	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.75 Put	700	66.3292	30.0336	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.79 Put	10,000	76.9308	36.6202	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.80 Call	500	254.0898	424.6282	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.80 Put	500	79.7898	38.4282	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.90 Put	35,000	113.4009	60.4254	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.95 Call	39,589	158.2230	310.5474	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	14.00 Call	20,000	135.4077	276.5984	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	14.00 Put	53,250	161.1077	90.3984	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	14.10 Put	1,867	223.2620	129.2681	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	ZAUS	14.12 Put	4,372	236.8478	138.1584	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	88.0755	198.9444	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	115,000	257.8911	152.2000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	265.0758	157.0687	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	68.9248	163.6836	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	294.6248	177.4836	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	325.3878	200.0381	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	57.5554	142.1040	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	373.5755	236.5592	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	42.7935	112.1784	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	398.4935	255.9784	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	39.6824	105.5362	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	415.3824	269.3362	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	449.7707	296.9984	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	32.7868	90.3045	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	28.0851	79.4563	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	22.1975	65.2345	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	547.8975	379.0345	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	557.0368	386.8872	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	14.8942	46.3380	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	640.5942	460.1380	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	14.3061	44.7415	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	13.7400	43.1929	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	707.0419	519.9374	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	10.2133	32.4137	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	774.5900	581.7848	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	8.5887	26.9664	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	784.2887	590.7664	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	7.2365	22.3611	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	832.9365	636.1611	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	6.7613	20.7293	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	6.3194	19.2070	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	6.1101	18.4850	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	930.8706	729.0364	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	3.7290	11.4559	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	1029.4290	825.2559	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	3.6110	11.1400	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	2.8024	8.9404	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	2.7163	8.7020	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	2.3273	7.6146	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	1.9994	6.6808	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1227.6994	1020.4808	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.25 Put	500	1277.4222	1069.6774	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1327.1875	1118.9848	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	1.2011	4.3699	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	0.8769	3.5348	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	0.8182	3.3761	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	0.7636	3.2258	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1526.4636	1317.0258	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	0.7377	3.1538	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	0.5611	2.6422	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	0.5424	2.5855	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	0.5243	2.5087	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	0.3876	1.9138	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	0.3509	1.7500	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1865.9448	1655.0645	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	17,300	0.2370	1.2280	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	0.1955	1.0313	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	0.1472	0.7962	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	0.1048	0.5836	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	0.0957	0.5368	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.0799	0.4548	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.0710	0.4077	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.0287	0.1755	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.0206	0.0970	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.0373	0.0608	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	1.3513	1.1590	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	13.3682	9.7364	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	37.8154	30.0013	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	40.0043	31.8509	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	6,332	62.4490	48.8482	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	77.1381	56.4652	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	80.3614	58.9179	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	94.2504	69.6715	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	103.7750	77.1018	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	118.2493	88.4759	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	124.8717	93.7113	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	148.8384	112.8002	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	170.1732	129.9703	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	178.6833	136.8616	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	190.4731	146.4436	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	209.3083	161.6797	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	223.1479	172.4226	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	241.2231	186.5230	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Mar 2019	ZAUS	13.60 Put	6,570	260.1681	201.3848	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	267.9892	207.5427	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	292.2856	227.4652	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	300.6616	234.5976	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	309.1732	241.8626	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	322.2035	253.0176	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	340.0584	268.3622	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	367.8657	292.3951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	372.6190	296.5165	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	391.9666	313.3499	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	578.7744	707.6696	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	22,406	442.6744	357.7696	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	463.8755	376.4706	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	490.5960	606.3687	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	471.0394	583.0404	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	603.5619	499.5151	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	452.2233	560.4872	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	648.0219	538.7942	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	693.8493	580.3179	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	707.1845	592.4422	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	713.8918	598.5490	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	396.7254	494.5844	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	390.2737	486.9403	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	383.9223	479.4057	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	20,050	747.8223	629.5057	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	768.4887	648.4166	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	789.3797	667.5710	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	853.3550	726.4785	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	919.1965	787.4549	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	300.1727	379.1036	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	971.6245	836.2447	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	979.1968	843.3090	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	986.7895	850.3963	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	994.4052	857.5064	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	255.1890	324.1500	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1150.9954	1004.2738	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1199.3632	1049.8589	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1215.6185	1065.2039	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1223.7690	1072.9032	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	222.6312	283.7910	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1273.0065	1119.4939	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1281.2680	1127.3209	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	15.22 Call	2,785	213.9313	272.9303	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	208.8890	266.6263	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1381.5236	1222.6028	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	185.5600	237.3303	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	178.4361	228.3462	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	177.0473	226.5922	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	171.6157	219.7248	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	168.9679	216.3757	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	166.3679	213.0819	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	150.8055	194.4310	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	133.4217	173.5136	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	131.2696	170.7744	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	125.0401	162.8282	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	116.2863	151.6324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	114.4332	149.2564	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	103.1438	134.7526	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	90.1916	118.0245	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	84.7288	110.9454	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	72.6228	95.1945	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	71.5237	93.7597	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	54.6465	71.6515	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	54.2478	71.1275	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	52.3834	68.5695	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	50.3844	65.6368	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	50.0608	65.1612	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	49.7399	64.6908	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	45.7960	58.9528	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	43.8382	56.1817	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	38.8126	49.0769	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	29.1921	35.5458	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	23.7048	27.9108	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.4896	6.0561	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	65.5003	49.5033	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	129.2101	105.1518	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	177.3897	145.2713	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	182.3456	149.2199	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	249.2050	205.5540	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	480.1403	403.0399	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	504.5861	424.9220	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	864.5696	999.4030	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	676.4210	789.4163	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	618.6472	724.1332	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	14.63 Put	8,203	942.4486	826.0724	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	541.3483	636.2962	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,500	464.3695	547.5676	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	353.0875	417.3927	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	321.4687	380.9609	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	301.1960	358.7340	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	288.4683	344.0853	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	121.1150	137.4858	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	12.6283	11.4429	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	127.9729	92.0805	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	332.3971	280.3634	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	604.2083	520.8592	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	634.9223	547.7127	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	698.6000	606.0038	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	765.1948	667.2909	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	834.5979	731.4881	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1537.7269	1397.9293	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1674.1578	1528.7690	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	506.0275	574.9303	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	297.4532	338.2196	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	262.7794	290.8710	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	248.7179	273.9798	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	243.7240	268.0564	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	223.4451	243.9717	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	214.5126	233.3527	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	207.1699	224.6144	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	155.8420	182.4449	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	40.9274	35.8722	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	551.7595	479.8567	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	422.3718	470.3944	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	200.9879	230.7627	0.0000	0.0000	0	0.00		
			<u>7,558,944</u>					<u>0.00</u>	<u>0.00</u>	<u>62 650 708.00</u>	<u>0.00</u>
	<b>Total</b>		<b>8,322,852</b>					<b>189,206.00</b>	<b>2,682,826,056.10</b>	<b>253 675 419.00</b>	<b>2 295 414 533 240.50</b>
	<b>Grand Total</b>		<b>9,876,816</b>					<b>339,860.00</b>	<b>4 875 872 375.60</b>	<b>346,833,022</b>	<b>3,180,718,584,252.73</b>