



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 13-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Jan 2019	DAEU	Future	4,830	16.2128	16.3062	0.0000	0.0000	9,660	157,439,163.00
Feb 2019	DAEU	Future	26	16.3393	16.3526	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.3903	16.4039	0.0000	0.0000	0	0.00
			<u>4,909</u>					<u>9,660.00</u>	<u>157,439,163.00</u>
Option									
Dec 2018	DAEU	15.83 Put	32,000	72.3528	74.2556	0.0000	0.0000	0	0.00
Jan 2019	DAEU	15.85 Put	13,000	108.9508	122.4788	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	977.6772	988.5126	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	305.2021	322.2050	0.0000	0.0000	0	0.00
			<u>123,600</u>					<u>0.00</u>	<u>0.00</u>
	Total		128,509					9,660.00	157,439,163.00
Future									
Jan 2019	DAGB	Future	4,112	18.0294	18.0960	0.0000	0.0000	8,224	148,747,076.80
Jan 2019	DAGB	Future	27	18.0599	18.0346	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.1456	18.1199	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.2363	18.2106	0.0000	0.0000	0	0.00
			<u>4,266</u>					<u>8,224.00</u>	<u>148,747,076.80</u>
	Total		4,266					8,224.00	148,747,076.80
Future									
Dec 2018	DAUS	Future	160	14.1906	14.1720	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	1,952	14.2077	14.1881	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.2111	14.1919	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	150	14.2334	14.2166	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.2352	14.2183	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,901	14.2438	14.2617	0.0000	0.0000	3,802	54,195,799.10
Jan 2019	DAUS	Future	51	14.2507	14.2337	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.2594	14.2423	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,655	14.2612	14.2441	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>		
Feb 2019	DAUS	Future	70	14.2837	14.2664	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.2872	14.2698	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.3047	14.2874	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,025	14.3100	14.2926	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.3170	14.2997	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.3188	14.3014	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.3578	14.3403	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	14.3614	14.3439	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.3685	14.3510	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.4187	14.4007	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.4743	14.4558	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.4815	14.4629	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.5248	14.5063	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.5303	14.5118	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.5870	14.5685	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.6455	14.6270	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.6491	14.6307	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.7007	14.6822	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.7547	14.7358	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.8142	14.7950	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.8179	14.7987	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.8744	14.8552	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.9332	14.9145	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.9960	14.9778	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.0589	15.0412	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.1136	15.0963	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.1825	15.1658	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.2961	15.2802	0.0000	0.0000	0	0.00		
			<u>108,500</u>					<u>3,802.00</u>	<u>54,195,799.10</u>	<u>10 977 406.00</u>	<u>134 870 556 372.60</u>
Option											
Dec 2018	DAUS	13.90 Put	35,000	58.1998	62.1368	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.98 Put	18,000	80.1403	85.8334	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.30 Put	35,000	229.1677	244.0459	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.90 Put	35,000	725.0018	744.5315	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.30 Put	35,000	1115.1648	1133.6343	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.20 Put	1,000	2.7720	2.6233	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.30 Put	1,000	3.9755	3.6473	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.10 Put	25,000	129.0639	142.1481	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.66 Call	1,000	40.5868	44.1060	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.75 Call	1,000	29.8347	33.2940	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.00 Put	500	4.7717	5.9217	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.80 Put	1,000	62.7107	81.2623	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	14.22 Call	500	215.6586	225.5061	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	245.1946	275.0627	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	793.3985	821.9914	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	0.6143	0.8731	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	0.4273	0.5881	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	30.8956	41.2260	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	396.8882	399.3049	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	183.8997	194.6433	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	51.4061	63.4105	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	306.7467	312.9647	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	118.0700	129.4728	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	133.2201	151.3035	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	418.4199	423.4378	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	4.3832	4.0295	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	16.5784	21.5246	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	331.3921	357.1756	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	357.9202	384.5735	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	316.0589	326.9217	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	124.1429	136.0276	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	80.2768	90.3108	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	45.4884	52.0229	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	402.9969	428.8615	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	429.3941	456.0199	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	380.6148	392.3301	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	187.4439	200.1355	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	133.8021	145.1242	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	302.0469	324.3064	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	243.5413	256.6091	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	307.0444	328.2695	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	359.4898	382.6450	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	74.5131	82.6850	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	461.6830	487.8236	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	488.1096	514.9315	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	434.0660	446.8014	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	242.6875	255.9942	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	185.7511	197.9754	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	274.0039	294.3556	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	579.6338	590.0382	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	103.1591	112.9740	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1146.8951	1145.1776	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	511.2740	538.0800	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	537.7797	565.1289	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>
Apr 2019	DAUS	14.84 Call	500	479.4788	492.9758	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	291.7887	305.8650	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	234.1802	247.0815	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	130.5504	141.7880	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	553.3493	580.2506	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	579.7337	607.2132	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	516.8005	531.0916	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	333.6013	348.4338	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	272.1355	286.2715	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	878.7095	909.8712	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	181.2500	193.1738	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	153.9509	165.2497	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	586.2983	612.6274	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	612.6807	639.5369	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	546.3924	560.6531	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	366.7714	381.7261	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	304.5395	318.7630	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	276.7736	293.9113	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	296.6774	310.5599	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	176.1273	186.3029	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	619.7142	644.7703	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	646.0841	671.5969	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	584.0341	597.4488	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	406.3945	420.4272	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	344.4142	357.8503	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	785.8128	812.7954	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	395.1691	408.5562	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	194.8479	205.3330	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	647.2215	670.9344	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	673.5677	697.6830	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	609.8169	621.4839	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	434.7250	446.6556	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	372.5646	384.3929	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	189.2200	198.0240	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	209.6885	220.6555	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	671.7439	694.1946	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	698.0257	720.8451	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	640.4223	651.5852	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	466.2522	477.8399	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	401.8802	413.0417	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	225.4489	237.8570	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	694.9386	716.8739	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>	
Oct 2019	DAUS	14.25 Put	250	721.1587	743.4284	0.0000	0.0000	0	0.00	
Oct 2019	DAUS	15.87 Call	500	663.4857	674.0405	0.0000	0.0000	0	0.00	
Oct 2019	DAUS	16.70 Call	250	492.5087	503.3573	0.0000	0.0000	0	0.00	
Oct 2019	DAUS	17.09 Call	250	429.7830	440.2569	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	13.00 Put	500	242.7067	254.3575	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	14.20 Put	250	714.6748	736.1749	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	14.25 Put	250	740.8058	762.6143	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	16.03 Call	500	687.8012	697.9351	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	16.87 Call	250	518.4240	528.7286	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	17.26 Call	250	456.8975	466.8759	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	13.00 Put	500	260.9324	272.7975	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.20 Put	250	738.7811	761.1906	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	764.8565	787.5416	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	720.0934	731.1875	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	553.6601	564.7010	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	492.7810	503.5129	0.0000	0.0000	0	0.00	
			<u>519,655</u>					<i>0.00</i>	<i>0.00</i>	<i>22 107 231.00</i>
	Total		628,155					3,802.00	54,195,799.10	33 084 637.00
										<i>134 870 556 372.60</i>
Future										
Dec 2018	EUUS	Future	60	1.1347	1.1364	0.0000	0.0000	0	0.00	
Jun 2019	EUUS	Future	582	1.1524	1.1547	0.0000	0.0000	0	0.00	
			<u>642</u>					<i>0.00</i>	<i>0.00</i>	<i>745 297.00</i>
	Total		642					0.00	0.00	745 297.00
										<i>8 454 976 850.00</i>
Future										
Dec 2018	GBUS	Future	400	1.2634	1.2627	0.0000	0.0000	0	0.00	
			<u>400</u>					<i>0.00</i>	<i>0.00</i>	<i>170 407.00</i>
	Total		400					0.00	0.00	170 407.00
										<i>2 192 764 108.00</i>
Future										
Dec 2018	ZAAD	Future	14,657	10.2570	10.2275	10.2598	10.2245	2,626	26,854,980.00	
Mar 2019	ZAAD	Future	5,738	10.3756	10.3545	10.3873	10.3812	2,432	25,138,205.10	
Jun 2019	ZAAD	Future	15,746	10.5036	10.4816	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.7813	10.7579	0.0000	0.0000	0	0.00	
			<u>36,541</u>					<i>5,058.00</i>	<i>51,993,185.10</i>	<i>3 825 907.00</i>
	Total		37,541					5,058.00	51,993,185.10	3 860 284.00
										<i>33 486 195 507.60</i>
Option										
Dec 2019	ZAAD	11.00 Call	1,000	532.1659	529.7275	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<i>0.00</i>	<i>0.00</i>	<i>34 377.00</i>
	Total		37,541					5,058.00	51,993,185.10	3 860 284.00
										<i>33 486 195 507.60</i>

<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>	
Future										
Dec 2018	ZACA	Future	750	10.6146	10.6141	0.0000	0.0000	0	0.00	
Mar 2019	ZACA	Future	500	10.7472	10.7573	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	250	10.9009	10.9083	0.0000	0.0000	0	0.00	
			<u>1,500</u>					<u>0.00</u>	<u>0.00</u>	<u>142 913.00</u>
		Total	1,500					0.00	0.00	142 913.00
Future										
Dec 2018	ZADK	Future	140	2.1666	2.1662	0.0000	0.0000	0	0.00	
Jun 2019	ZADK	Future	250	2.2513	2.2523	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	44,506	16.1038	16.0969	16.1278	16.0099	5,321	85,656,343.70	
Mar 2019	ZAEU	Future	123,672	16.4002	16.4139	16.4463	16.3357	3,456	56,594,147.00	
Jun 2019	ZAEU	Future	24,250	16.7087	16.7206	0.0000	0.0000	139	2,327,026.80	
Sep 2019	ZAEU	Future	9,596	17.0490	17.0613	0.0000	0.0000	1,138	19,440,018.80	
Dec 2019	ZAEU	Future	277	17.3762	17.3851	0.0000	0.0000	0	0.00	
			<u>202,301</u>					<u>10,054.00</u>	<u>164,017,536.30</u>	<u>15 981 581.00</u>
										<u>230 555 005 644.90</u>
Option										
Mar 2019	ZAEU	16.00 Call	650	742.3549	768.4254	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	551.2765	570.3811	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	70.7313	69.4180	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	551.3061	554.2029	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	445.5300	460.4586	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	309,401					10,054.00	164,017,536.30	26 938 457.00
										230 555 005 644.90
Future										
Dec 2018	ZAFR	Future	893	14.2873	14.2637	14.3050	14.2359	200	2,854,090.00	
Mar 2019	ZAFR	Future	893	14.5651	14.5597	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	14.8534	14.8459	0.0000	0.0000	0	0.00	
			<u>1,936</u>					<u>200.00</u>	<u>2,854,090.00</u>	<u>624 687.00</u>
		Total	1,936					200.00	2,854,090.00	6 726 984 234.80
Future										
Dec 2018	ZAGB	Future	48,631	17.9300	17.8861	17.8767	17.7715	2,222	39,725,893.50	
Mar 2019	ZAGB	Future	396,742	18.2013	18.1757	18.2500	18.0714	2,220	40,325,612.30	
Jun 2019	ZAGB	Future	5,764	18.4799	18.4528	0.0000	0.0000	125	2,312,250.00	
Sep 2019	ZAGB	Future	13,875	18.7832	18.7576	0.0000	0.0000	125	2,349,475.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
	Dec 2019	ZAGB	Future	247	19.0732	19.0469	0.0000	0.0000	0	0.00		
				<u>465,259</u>					<u>4,692.00</u>	<u>84,713,230.80</u>	<u>13 732 580.00</u>	<u>234 714 683 669.20</u>
Option												
	Dec 2018	ZAGB	19.30 Call	200	0.1653	0.4673	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	18.00 Put	500	522.8133	573.7198	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.00 Call	2,500	335.7039	366.2843	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.19 Put	1,000	1276.8113	1332.1345	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.00 Call	500	149.3661	172.3769	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.18 Call	1,500	128.3197	149.4310	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	21.44 Call	500	43.9114	54.1354	0.0000	0.0000	0	0.00		
				<u>6,700</u>					<u>0.00</u>	<u>0.00</u>	<u>1 783 113.00</u>	<u>0.00</u>
			Total	471,959					4,692.00	84,713,230.80	15 515 693.00	234 714 683 669.20
Future												
	Dec 2018	ZAJY	Future	6,905	0.1250	0.1251	0.0000	0.0000	0	0.00		
				<u>6,905</u>					<u>0.00</u>	<u>0.00</u>	<u>1 021 902.00</u>	<u>11 470 576 312.50</u>
			Total	6,905					0.00	0.00	1 021 902.00	11 470 576 312.50
Future												
	Jun 2019	ZAKS	Future	2,166	0.1364	0.1372	0.0000	0.0000	0	0.00		
				<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>	<u>515 662 000.00</u>
			Total	2,166					0.00	0.00	38 066.00	515 662 000.00
Future												
	Mar 2019	ZATR	Future	14,000	2.5491	2.5371	0.0000	0.0000	0	0.00		
				<u>14,000</u>					<u>0.00</u>	<u>0.00</u>	<u>409 239.00</u>	<u>1 293 087 569.00</u>
			Total	14,000					0.00	0.00	409 239.00	1 293 087 569.00
Future												
	Dec 2018	ZAUM	Future	185	14.1923	14.1644	14.2012	14.2012	5	7,100,600.00		
	Mar 2019	ZAUM	Future	464	14.3417	14.3243	0.0000	0.0000	0	0.00		
				<u>649</u>					<u>5.00</u>	<u>7,100,600.00</u>	<u>155 130.00</u>	<u>179 894 200 110.00</u>
			Total	649					5.00	7,100,600.00	159 653.00	179 894 200 110.00
Future												
	Dec 2018	ZAUS	Future	195,221	14.1923	14.1644	14.2250	14.0682	324,468	4,583,281,015.40		
	Mar 2019	ZAUS	Future	436,110	14.3417	14.3243	14.3750	14.2262	95,791	1,365,270,941.60		
	Jun 2019	ZAUS	Future	108,656	14.4994	14.4807	0.0000	0.0000	140,000	2,030,070,000.00		
	Sep 2019	ZAUS	Future	14,244	14.6710	14.6526	0.0000	0.0000	0	0.00		
	Dec 2019	ZAUS	Future	9,900	14.8347	14.8154	0.0000	0.0000	0	0.00		
	Mar 2020	ZAUS	Future	4,266	15.0244	15.0064	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Jun 2020	ZAUS	Future	0	15.2028	15.1863	0.0000	0.0000	140,000	2,030,210,000.00
			<u>768,397</u>					<u>700,259.00</u>	<u>10,008,831,957.00</u>
									<u>192 682 149.00</u>
									<u>2 319 102 479 239.00</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	47,430	0.0000	0.0000	0.0000	0.0000	133,900	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.0000	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	0.0000	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	0.0000	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	0.0000	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	0.0000	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1692.3000	1664.4002	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	0.0000	0.0002	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	0.0007	0.0020	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	0.0020	0.0048	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	0.0075	0.0146	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	0.0234	0.0476	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	4,500	1192.3260	1164.4643	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	72,280	0.0260	0.0643	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	0.0289	0.0871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	0.0323	0.1182	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	5,000	992.3412	964.6196	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	0.0434	0.2488	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	942.3470	914.7003	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	0.0470	0.3003	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	0.0573	0.4672	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	0.0590	0.4978	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	742.3872	715.4725	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	0.0872	1.0725	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	692.4047	665.9167	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	0.1047	1.5167	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	0.3010	3.0127	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	0.6920	5.1683	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	0.8501	5.9052	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	1.4144	8.2120	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	2.1124	10.6490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	394.6329	375.7568	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	2.3329	11.3568	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	6.1351	21.2840	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	252.0395	243.1848	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	207.4951	202.9589	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	14.00 Put	53,250	15.1951	38.5589	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	34.7423	66.9242	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	40.5240	74.2827	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	105.9976	112.5972	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	1,406	50.6457	86.5137	0.0000	0.0000	230,000	0.00
Dec 2018	ZAUS	14.16 Put	36,200	54.4335	91.9956	0.0000	0.0000	37,800	0.00
Dec 2018	ZAUS	14.20 Call	51,000	64.1109	79.9892	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	71.8109	115.5892	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	97.0078	141.6692	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	46.1242	62.9470	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	140.5764	184.8652	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	26.7621	42.4452	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	164.4621	208.0452	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	23.3183	38.4078	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	181.0183	224.0078	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	215.3961	257.0152	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	16.5177	29.8712	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	12.5497	24.4086	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	8.3504	18.0280	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	316.0504	353.6280	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	325.5081	362.7419	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	63,000	4.3199	10.9219	0.0000	0.0000	18,900	0.00
Dec 2018	ZAUS	14.60 Put	1,000	412.0199	446.5219	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	4.0513	10.3929	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	3.8006	9.8906	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	480.4760	513.3339	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	2.3092	6.6832	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	549.5161	581.1121	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	12,100	1.7119	5.2550	0.0000	0.0000	115,000	0.00
Dec 2018	ZAUS	14.75 Put	700	559.4119	590.8550	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	1.2815	4.1485	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	608.9815	639.7485	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	1.1445	3.7786	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	1.0238	3.4441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	0.9688	3.2890	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	708.4397	738.0480	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	0.3907	1.3464	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	808.0907	836.9464	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	0.3669	1.2678	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	0.2243	0.7825	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	0.2111	0.7366	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	0.1567	0.5443	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	15.20 Call	50	0.1170	0.4021	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1007.8170	1036.0021	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1057.7879	1085.8970	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1107.7665	1135.8195	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	0.0455	0.1440	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	0.0285	0.0839	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	0.0257	0.0745	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	0.0233	0.0661	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1307.7233	1335.6661	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	0.0221	0.0623	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	0.0150	0.0466	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	0.0143	0.0460	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	0.0142	0.0454	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	0.0132	0.0406	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	0.0129	0.0393	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1647.7121	1675.6352	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	17,300	0.0120	0.0349	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	0.0117	0.0331	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	0.0113	0.0309	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	0.0109	0.0288	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	0.0108	0.0283	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.0107	0.0274	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.0106	0.0269	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.0106	0.0242	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.0109	0.0233	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.0113	0.0231	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	0.9406	1.0078	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	8.9363	9.3124	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	27.2597	29.2622	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	28.9394	31.0977	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	6,332	44.4446	48.0457	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	51.4337	57.7045	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	53.7219	60.2365	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	63.7844	71.2156	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	70.7645	78.8017	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	81.4855	90.4084	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	86.4354	95.7507	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	104.5477	115.2207	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	120.9192	132.7248	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	127.5080	139.7496	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	136.6874	149.5147	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	151.3207	165.0368	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	13.50 Put	2,550	161.6663	175.9794	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	175.2733	190.3378	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	189.6465	205.4841	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	195.6145	212.2025	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	214.9458	233.1779	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	221.8765	240.4413	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	228.9446	247.8409	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	239.8052	259.1931	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	254.7717	274.8094	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	278.2544	299.2541	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	282.2891	303.4443	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	298.7732	320.5542	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	684.0932	689.9795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	27,406	342.3932	365.6795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	360.7994	384.6630	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	581.4868	590.1072	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	557.8979	567.1347	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	482.4308	509.4256	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	535.1149	544.9391	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	521.4170	549.7614	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	562.9345	591.7806	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	575.0672	604.0489	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	581.1798	610.2244	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	469.0219	480.7313	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	461.3945	473.2238	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	453.8807	465.8310	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	15,050	612.1807	641.5310	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	631.1304	660.6474	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	650.3324	680.0055	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	709.4329	739.5161	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	770.6725	801.0784	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	354.3319	367.5083	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	819.7107	850.3106	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	826.8133	857.4388	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	833.9397	864.5868	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	841.0896	871.7576	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	300.2545	313.7593	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	988.7809	1019.6885	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1034.7514	1065.6147	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1050.2324	1081.0759	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1058.0030	1088.8343	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	260.9679	274.3500	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	15.19 Put	41,300	1105.0112	1135.7653	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1112.9113	1143.6493	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	250.4627	263.7669	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	244.3707	257.6254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1209.0580	1239.5763	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	216.1783	229.1112	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	207.5667	220.3733	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	205.8874	218.6692	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	199.3219	211.9915	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	196.1228	208.7369	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	192.9791	205.5365	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	175.2307	187.4217	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	155.4419	166.7795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	152.8683	164.1332	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	145.4170	156.4611	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	134.9525	145.6562	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	132.7379	143.3640	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	119.2536	129.3804	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	103.8000	113.2730	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	97.2928	106.4589	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	82.8973	91.3175	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	81.5926	89.9388	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	61.6188	68.7192	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	61.1487	68.2161	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	58.8574	65.7636	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	56.2355	62.9530	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	55.8118	62.4976	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	55.3917	62.0460	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	50.3749	56.8429	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	48.1182	54.3699	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	42.3437	48.0194	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	31.3803	35.8572	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	25.1961	28.9240	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	5.4034	5.5614	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	46.9761	49.1178	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	100.5667	107.8663	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	139.4866	150.4963	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	152,103	143.3264	154.6949	0.0000	0.0000	161,800	0.00
Jun 2019	ZAUS	13.24 Put	30,000	198.6190	213.3536	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	394.2895	416.8726	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	416.0204	439.2516	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	980.8264	986.6132	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>		
Jun 2019	ZAUS	14.00 Put	143,900	470.8146	0.0000	0.0000	0.0000	143,900	0.00		
Jun 2019	ZAUS	14.42 Call	30	770.0815	780.7365	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	704.7334	716.7075	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.63 Put	8,203	816.0805	847.0850	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.65 Put	1,000	828.5272	859.6576	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	617.0101	630.4187	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,500	528.6289	543.2710	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.32 Call	1,980	468.8566	484.0815	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.50 Call	143,900	425.8742	0.0000	0.0000	0.0000	161,800	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	399.6839	415.1461	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	363.7796	379.2290	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	341.9152	357.3091	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	327.5694	342.8386	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	128.2497	138.4567	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	10.5082	10.3439	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	94.6935	96.6602	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	279.0186	292.0738	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	518.6774	538.9007	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	546.6697	567.4161	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	604.9580	626.7276	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	666.2572	688.9993	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	730.4716	754.1376	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1396.4729	1425.7992	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1527.5519	1557.3200	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	563.6478	575.5416	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	329.8416	340.6973	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	284.3845	294.6118	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	268.2057	278.2342	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	262.4575	272.4111	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	239.1197	248.7308	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	228.8407	238.2824	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	220.3871	229.6795	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	176.7510	185.1229	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	36.5767	43.3739	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	483.2595	498.8658	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	463.8054	473.9633	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	226.9325	234.8353	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	88.5681	93.5497	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	718.5616	738.8303	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	614.6635	625.3563	0.0000	0.0000	0	0.00		
			<u>7,622,030</u>					<u>1,003,100.00</u>	<u>0.00</u>	<u>63 687 603.00</u>	<u>0.00</u>

<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>
		Total	8,390,427				1,703,359.00	10,008,831,957.00
								256 369 752.00
								2 319 102 479 239.00
		Grand Total	9,998,846				1,745,054.00	10 679 892 638.10
								350,608,720
								3,222,642,445,894.43