



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 20-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Jan 2019	DAEU	Future	4,830	16.3770	16.2551	0.0000	0.0000	0	0.00		
Feb 2019	DAEU	Future	29	16.5088	16.3811	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	16.5602	16.4315	0.0000	0.0000	0	0.00		
			<u>4,912</u>					<u>0.00</u>	<u>0.00</u>	<u>811 215.00</u>	<u>12 127 077 435.00</u>
Option											
Dec 2018	DAEU	15.83 Put	32,000	1.4793	10.1553	0.0000	0.0000	0	0.00		
Jan 2019	DAEU	15.85 Put	13,000	30.8272	57.5316	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	16,200	865.6166	937.6331	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	320.1832	299.0752	0.0000	0.0000	0	0.00		
			<u>123,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 510 587.00</u>	<u>0.00</u>
	Total		128,512					0.00	0.00	2 321 802.00	12 127 077 435.00
Future											
Jan 2019	DAGB	Future	4,112	18.0850	17.9982	0.0000	0.0000	0	0.00		
Jan 2019	DAGB	Future	27	18.1178	18.0294	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	18.2049	18.1131	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.2957	18.2032	0.0000	0.0000	0	0.00		
			<u>4,266</u>					<u>0.00</u>	<u>0.00</u>	<u>62 358.00</u>	<u>1 041 064 928.30</u>
	Total		4,266					0.00	0.00	269 671.00	1 041 064 928.30
Future											
Dec 2018	DAUS	Future	0	14.2183	14.1243	0.0000	0.0000	36,175	514,347,002.50		
Dec 2018	DAUS	Future	160	14.2233	14.1243	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	285	14.2243	14.1287	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	1,952	14.2272	14.1319	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.2292	14.1341	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	324	14.2538	14.1638	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	20	14.2557	14.1661	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,901	14.2656	14.1775	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	51	14.2732	14.1849	0.0000	0.0000	0	0.00		

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>		
Jan 2019	DAUS	Future	1,018	14.2820	14.1934	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,655	14.2837	14.1951	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.3065	14.2172	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	14.3100	14.2206	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	15	14.3276	14.2377	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,120	14.3329	14.2429	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.3399	14.2497	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.3417	14.2515	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.3807	14.2900	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	14.3843	14.2937	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.3915	14.3011	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.4421	14.3531	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.4981	14.4106	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.5054	14.4180	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.5490	14.4624	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.5546	14.4679	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.6124	14.5250	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.6720	14.5838	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.6758	14.5875	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.7282	14.6396	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.7831	14.6950	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.8438	14.7562	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.8476	14.7600	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.9044	14.8174	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.9656	14.8787	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.0310	14.9442	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.0965	15.0097	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.1534	15.0667	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.2252	15.1385	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.3433	15.2568	0.0000	0.0000	0	0.00		
			<u>110,017</u>					<u>36,175.00</u>	<u>514,347,002.50</u>	<u>11 017 858.00</u>	<u>135 446 281 854.10</u>
Option											
Dec 2018	DAUS	13.20 Put	1,000	0.0000	0.3321	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.30 Put	1,000	0.0008	0.5781	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.10 Put	25,000	22.6573	82.3267	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.30 Put	35,000	113.4817	215.7720	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.66 Call	1,000	2.5938	5.9409	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.75 Call	1,000	1.4060	3.7086	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.00 Put	500	0.4321	1.2724	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.80 Put	1,000	27.1216	47.9285	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.22 Call	500	149.5273	125.4867	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.25 Put	250	156.8616	232.7746	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	14.96 Put	250	741.0439	838.5601	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	0.0343	0.0598	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	0.0693	0.0998	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	10.5987	18.7607	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	359.0530	300.5961	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	119.4549	104.9908	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	18.7883	34.7274	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	255.6492	219.7065	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	69.6750	63.9503	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	86.1476	123.9597	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	384.7614	341.4916	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.29 Put	218	266.0006	0.0000	0.0000	0.0000	218	0.00
Jan 2019	DAUS	14.36 Call	218	202.1020	0.0000	0.0000	0.0000	218	0.00
Jan 2019	DAUS	12.66 Put	263	3.4775	3.9114	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	13.2748	16.2354	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	280.8333	334.4272	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	306.4212	363.4368	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	284.3857	259.3283	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	97.7060	90.6846	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	58.9692	55.4982	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	32.1153	42.5930	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	359.3684	410.4374	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	384.9336	437.8259	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	355.2718	329.0212	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	163.1090	152.8496	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	112.1496	105.9148	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	265.8456	307.3523	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	219.3575	205.7412	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	273.7001	313.6923	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	323.6688	367.7199	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	61.0382	74.2811	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	422.5627	473.0780	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	448.2049	500.2873	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	412.3608	386.8022	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	220.6597	208.8095	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	165.2029	156.8895	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	244.6541	280.9563	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	561.9820	527.0272	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	88.4967	104.6384	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1146.7982	1085.3872	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	475.2341	524.5959	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	500.9942	551.6734	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	460.7547	436.7056	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	272.5573	260.0954	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	215.9674	205.8838	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	116.8360	133.6192	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	519.0446	567.2311	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	544.8162	594.1687	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	500.1838	477.3330	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	316.1289	303.5178	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	255.9571	245.2074	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	840.1430	898.3617	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	167.3680	161.7551	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	139.8647	157.9687	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	553.5819	600.6863	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	579.3205	627.5470	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	530.5418	508.9301	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	350.0864	337.1888	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	288.7398	278.1061	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	255.0144	283.9185	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	280.9104	270.8409	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	162.2314	183.3832	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	588.3077	635.6696	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	614.0946	662.5061	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	569.8176	549.1321	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	391.3358	377.4663	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	329.7633	318.4646	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	751.3390	804.4078	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	381.0627	368.1390	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	181.0360	201.5284	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	616.1787	663.4502	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	641.9791	690.2020	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	596.3649	576.0730	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	420.4465	407.0603	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	358.5935	347.5052	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	176.7250	174.7518	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	196.3524	218.4417	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	641.3707	687.7397	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	667.1485	714.4102	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	628.1357	607.1372	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	453.0557	438.3536	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	388.8701	376.3896	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	208.4303	235.9535	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	664.5115	711.1941	0.0000	0.0000	0	0.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Oct 2019	DAUS	14.25 Put	250	690.2413	737.7632	0.0000	0.0000	0	0.00	
Oct 2019	DAUS	15.87 Call	500	651.9266	632.2641	0.0000	0.0000	0	0.00	
Oct 2019	DAUS	16.70 Call	250	480.3009	465.7494	0.0000	0.0000	0	0.00	
Oct 2019	DAUS	17.09 Call	250	417.4572	405.2078	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	13.00 Put	500	223.9227	251.0167	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	14.20 Put	250	684.2894	730.7873	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	14.25 Put	250	709.9547	757.2588	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	16.03 Call	500	677.1921	658.0596	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	16.87 Call	250	506.8380	492.8548	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	17.26 Call	250	445.0386	433.1416	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	13.00 Put	500	237.5908	268.9153	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.20 Put	250	704.4108	750.9438	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	730.0227	777.3071	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	704.6335	686.4317	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	537.7414	524.5719	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	476.9017	465.7589	0.0000	0.0000	0	0.00	
			<u>397,091</u>					<u>436.00</u>	<u>0.00</u>	<u>22 142 667.00</u>
	Total		507,108					36,611.00	514,347,002.50	33 160 525.00
										135 446 281 854.10
Future										
Jun 2019	EUUS	Future	582	1.1626	1.1606	0.0000	0.0000	0	0.00	
			<u>582</u>					<u>0.00</u>	<u>0.00</u>	<u>745 357.00</u>
	Total		582					0.00	0.00	745 357.00
										8 455 654 010.00
Future										
Mar 2019	GBUS	Future	400	1.2712	1.2728	0.0000	0.0000	0	0.00	
			<u>400</u>					<u>0.00</u>	<u>0.00</u>	<u>171 207.00</u>
	Total		400					0.00	0.00	171 207.00
										2 202 856 108.00
Future										
Mar 2019	ZAAD	Future	5,988	10.2522	10.2780	10.3209	10.2775	501	5,170,677.50	
Jun 2019	ZAAD	Future	15,746	10.3801	10.4092	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.6585	10.6869	0.0000	0.0000	0	0.00	
			<u>22,134</u>					<u>501.00</u>	<u>5,170,677.50</u>	<u>3 841 315.00</u>
	Total		22,134					501.00	5,170,677.50	3 841 315.00
										33 645 141 662.50
Option										
Dec 2019	ZAAD	11.00 Call	1,000	461.1580	476.6174	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>
	Total		23,134					501.00	5,170,677.50	3 875 692.00
										33 645 141 662.50
Future										
Mar 2019	ZACA	Future	500	10.6889	10.6483	0.0000	0.0000	0	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Sep 2019	ZACA	Future	250	10.9787	10.9339	0.0000	0.0000	0	0.00		
			750					0.00	0.00	143 663.00	1 420 168 895.10
		Total	750					0.00	0.00	143 663.00	1 420 168 895.10
Future											
Mar 2019	ZAEU	Future	123,415	16.5708	16.4411	16.6839	16.5550	469	7,778,240.30		
Jun 2019	ZAEU	Future	24,250	16.8846	16.7552	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	10,458	17.2316	17.0930	17.3325	17.3325	862	14,832,559.50		
Dec 2019	ZAEU	Future	277	17.5633	17.4222	0.0000	0.0000	0	0.00		
			158,400					1,331.00	22,610,799.80	16 029 046.00	231 329 771 138.00
Option											
Mar 2019	ZAEU	16.00 Call	650	824.6975	743.6045	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	584.1964	547.0475	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	63.3435	67.2657	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	482.5043	529.3160	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	465.1992	441.4877	0.0000	0.0000	0	0.00		
			107,100					0.00	0.00	10 956 876.00	0.00
		Total	265,500					1,331.00	22,610,799.80	26 985 922.00	231 329 771 138.00
Future											
Mar 2019	ZAFR	Future	1,143	14.6267	14.5259	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	14.9183	14.8178	0.0000	0.0000	0	0.00		
			1,293					0.00	0.00	625 830.00	6 743 581 614.60
		Total	1,293					0.00	0.00	625 830.00	6 743 581 614.60
Future											
Mar 2019	ZAGB	Future	397,701	18.2610	18.1679	18.3400	18.3400	2	36,680.00		
Jun 2019	ZAGB	Future	5,764	18.5419	18.4524	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	15,385	18.8505	18.7545	19.0024	18.9209	1,510	28,625,358.50		
Dec 2019	ZAGB	Future	247	19.1443	19.0469	0.0000	0.0000	0	0.00		
			419,097					1,512.00	28,662,038.50	13 784 682.00	235 659 715 014.60
Option											
Mar 2019	ZAGB	18.00 Put	500	466.2916	512.1300	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	327.2736	305.1750	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	1207.8332	1282.6376	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	140.3396	131.3066	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	119.6030	111.9542	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	35.9454	36.3179	0.0000	0.0000	0	0.00		
			6,500					0.00	0.00	1 783 113.00	0.00
		Total	425,597					1,512.00	28,662,038.50	15 567 795.00	235 659 715 014.60

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME	
Future										
	Jun 2019	ZAKS	Future	2,166	0.1396	0.1372	0.0000	0.0000	0	0.00
				<u>2,166</u>					<u>0.00</u>	<u>0.00</u>
			Total	2,166					0.00	0.00
										38 066.00 515 662 000.00
										38 066.00 515 662 000.00
Future										
	Mar 2019	ZATR	Future	14,000	2.6194	2.5786	0.0000	0.0000	0	0.00
				<u>14,000</u>					<u>0.00</u>	<u>0.00</u>
			Total	14,000					0.00	0.00
										409 239.00 1 293 087 569.00
										409 239.00 1 293 087 569.00
Future										
	Mar 2019	ZAUM	Future	434	14.3647	14.2738	0.0000	0.0000	0	0.00
				<u>434</u>					<u>0.00</u>	<u>0.00</u>
			Total	434					0.00	0.00
										155 260.00 180 082 430 910.00
										159 783.00 180 082 430 910.00
Future										
	Mar 2019	ZAUS	Future	468,985	14.3647	14.2738	14.5100	14.3270	51,130	736,967,053.80
	Jun 2019	ZAUS	Future	112,532	14.5235	14.4366	0.0000	0.0000	0	0.00
	Sep 2019	ZAUS	Future	14,245	14.6981	14.6096	14.8150	14.8150	1	14,815.00
	Dec 2019	ZAUS	Future	9,900	14.8646	14.7772	0.0000	0.0000	0	0.00
	Mar 2020	ZAUS	Future	4,566	15.0606	14.9738	0.0000	0.0000	0	0.00
				<u>610,228</u>					<u>51,131.00</u>	<u>736,981,868.80</u>
										193 242 259.00 2 327 193 165 800.10
										193 242 259.00 2 327 193 165 800.10
Option										
	Mar 2019	ZAUS	10.33 Put	1,000	0.6226	0.7360	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	11.74 Put	1,000	7.5981	8.4521	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	12.47 Put	721	21.4998	25.4200	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	12.51 Put	720	22.7647	26.9849	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	12.80 Put	6,332	34.4809	41.5318	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	12.90 Put	16,000	39.7996	50.1373	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	12.92 Put	139,342	41.7177	52.4536	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.00 Put	15,434	50.2423	62.5538	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.05 Put	1,155	56.2215	69.5835	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.12 Put	138,000	65.4935	80.4100	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.15 Put	10,125	69.8057	85.4182	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.25 Put	225,407	85.7444	103.7954	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.33 Put	135,043	100.3301	120.4598	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.36 Put	134,750	106.2455	127.1807	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.40 Put	0	114.5200	136.5533	0.0000	0.0000	2,100	0.00
	Mar 2019	ZAUS	13.46 Put	20,000	127.7949	151.5174	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.50 Put	2,550	137.2348	162.1097	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.55 Put	10,000	149.7158	176.0617	0.0000	0.0000	0	0.00
	Mar 2019	ZAUS	13.60 Put	6,570	162.9747	191.7954	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	13.62 Put	6,432	168.4970	198.3355	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	186.3710	218.8017	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	192.7705	225.9072	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	199.3123	233.1550	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	209.3888	244.2966	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	223.3167	259.6486	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	245.2787	283.7490	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	249.0639	287.8909	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	264.5596	304.8178	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	670.5071	623.4167	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	30,606	305.8071	349.6167	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	323.3070	368.5270	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	563.6582	523.5015	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	539.1282	500.6482	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	440.1229	494.0607	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	515.4557	479.4983	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	477.9225	535.3576	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	0	518.6656	578.2073	0.0000	0.0000	4,200	0.00
Mar 2019	ZAUS	14.44 Put	7,000	530.5986	590.7259	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	536.6131	597.0319	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	447.3594	417.1651	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	439.5466	409.9236	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	431.8589	402.8027	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	15,050	567.1589	629.0027	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	585.8590	648.5366	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	604.8301	668.3253	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	663.3486	729.1971	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	724.1628	792.2163	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	330.6175	309.1564	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	772.9676	842.6324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	780.0432	849.9321	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	787.1441	857.2528	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	794.2702	864.5995	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	276.2656	259.0058	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	941.8067	1016.2209	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	987.8815	1063.3392	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1003.4096	1079.1977	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1011.2028	1087.1549	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	237.2786	222.9696	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1058.3833	1135.2836	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1066.3155	1143.3670	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	226.9339	213.3884	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	15.25 Call	1,500	220.9493	207.8451	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1162.9161	1241.6915	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	193.3982	182.3145	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	185.0333	174.5609	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	183.4079	173.0524	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	177.0518	167.1562	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	173.9617	164.2912	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	170.9289	161.4770	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	153.8797	145.6513	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	135.0348	127.5672	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	132.6011	125.3114	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	125.5684	118.7906	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	0	115.7410	109.6736	0.0000	0.0000	2,100	0.00
Mar 2019	ZAUS	16.00 Call	1,906	113.6694	107.7505	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	101.1189	96.0922	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	86.8862	82.8491	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	80.9461	77.3131	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	67.9325	65.1635	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	66.7625	64.0693	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	49.0789	47.4868	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	48.6689	47.1006	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	46.6719	45.2212	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	44.3963	43.0771	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	44.0299	42.7312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	43.6659	42.3885	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	39.1618	38.2046	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	36.8292	36.1491	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	30.9556	30.9408	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	20.2945	21.3254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	14.6768	16.1173	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	5.4014	5.3346	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	44.0324	48.8466	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	91.0094	103.1839	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	125.1436	142.5249	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	128.5189	146.4058	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	179.7298	203.5940	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	366.4380	404.6594	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	387.3971	426.8711	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	974.8047	929.8504	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	143,900	440.3995	482.8351	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	473.0529	517.1916	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	537.0238	584.2588	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	14.42 Call	30	758.3212	723.6624	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	691.4636	660.2823	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	778.3422	835.0427	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	790.6472	847.7356	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	602.1593	575.4857	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	512.4992	490.4641	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	452.1628	433.7102	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	143,900	409.0341	392.8008	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	382.8372	367.9454	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	378.6549	363.9770	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	347.0177	333.9566	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	330.5575	318.3350	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	325.2738	313.0503	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	311.0606	299.1002	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	295.4953	284.2017	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	117.0960	113.9209	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	10.4162	9.9261	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	86.6109	96.8997	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	259.9995	286.4713	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	491.6788	532.1151	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	517.7987	560.5677	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	574.7495	619.7860	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	634.7709	682.0145	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	697.7894	747.1596	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1357.5429	1422.0276	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1487.9231	1554.7690	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	550.5008	532.0838	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	316.8655	307.0505	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	270.9192	265.8369	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	254.6778	250.3829	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	248.9918	244.8980	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	225.9521	222.6405	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	215.8265	212.8502	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	33,715	207.5141	204.8045	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	19.32 Call	33,151	167.3890	161.1763	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	29.6801	40.6290	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	460.0743	494.7012	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	17.38 Call	1,000	452.5459	440.6590	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	20.00 Call	2,000	217.8593	210.3585	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	11.91 Put	1,000	64.4105	71.8975	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	14.01 Put	1,000	662.1945	703.5483	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	17.73 Call	1,000	582.0607	569.2014	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>
		4,942,828					8,400.00	0.00
								63 869 858.00
	Total	5,553,056					59,531.00	736,981,868.80
								257 112 117.00
								2 327 193 165 800.10
	Grand Total	6,926,798					99,486.00	1 307 772 387.10
								351,552,129
								3,233,507,826,022.23