



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 25-September-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
<b>Future</b>											
Oct 2018	CC01	Future	25,000	627.7928	623.4716	0.0000	0.0000	0	0.00		
			<u>25,000</u>					<u>0.00</u>	<u>0.00</u>	<u>25 000.00</u>	<u>7 830 750.00</u>
		<b>Total</b>	<b>25,000</b>					<b>0.00</b>	<b>0.00</b>	<b>25 000.00</b>	<b>7 830 750.00</b>
<b>Future</b>											
Oct 2018	DAEU	Future	34	17.0074	16.9201	0.0000	0.0000	0	0.00		
			<u>34</u>					<u>0.00</u>	<u>0.00</u>	<u>801 328.00</u>	<u>11 965 949 271.80</u>
<b>Option</b>											
Aug 2019	DAEU	16.03 Put	31,200	274.6460	299.9671	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	16.24 Put	30,200	323.8009	352.3920	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	31,200	583.3830	631.1288	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	751.4509	744.5132	0.0000	0.0000	0	0.00		
			<u>155,000</u>					<u>0.00</u>	<u>0.00</u>	<u>1 297 987.00</u>	<u>0.00</u>
		<b>Total</b>	<b>155,034</b>					<b>0.00</b>	<b>0.00</b>	<b>2 099 315.00</b>	<b>11 965 949 271.80</b>
<b>Future</b>											
Sep 2018	DAGB	Future	14	18.9346	18.7692	0.0000	0.0000	0	0.00		
Oct 2018	DAGB	Future	48	18.9907	18.8247	0.0000	0.0000	0	0.00		
			<u>62</u>					<u>0.00</u>	<u>0.00</u>	<u>53 831.00</u>	<u>883 358 081.80</u>
		<b>Total</b>	<b>62</b>					<b>0.00</b>	<b>0.00</b>	<b>261 144.00</b>	<b>883 358 081.80</b>
<b>Future</b>											
Sep 2018	DAUS	Future	0	14.4275	14.3294	0.0000	0.0000	197	2,841,725.00		
Sep 2018	DAUS	Future	3,004	14.3853	14.3312	0.0000	0.0000	33	474,705.00		
Oct 2018	DAUS	Future	55	14.3930	14.3388	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	189	14.3950	14.3407	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	4,041	14.4174	14.3632	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	235	14.4212	14.3670	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.4361	14.3820	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.4436	14.3896	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 2018	DAUS	Future	2,500	14.4455	14.3915	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	4,099	14.4474	14.3934	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	55	14.4493	14.3953	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.4722	14.4180	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.4760	14.4218	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	120	14.4779	14.4237	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.5027	14.4484	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	5,681	14.5046	14.4504	0.0000	0.0000	205	2,965,940.00		
Dec 2018	DAUS	Future	3,672	14.5276	14.4734	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	4,014	14.5637	14.5097	0.0000	0.0000	120	1,747,440.00		
Jan 2019	DAUS	Future	55	14.5675	14.5134	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.6199	14.5655	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,420	14.6218	14.5673	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.6461	14.5915	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,787	14.6742	14.6194	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,414	14.7248	14.6696	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.7286	14.6734	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.7361	14.6808	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.7886	14.7332	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.8468	14.7911	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.9051	14.8492	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.9649	14.9083	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	15.0265	14.9693	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0851	15.0274	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.1453	15.0873	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.2117	15.1533	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2760	15.2173	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.3362	15.2772	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.4006	15.3411	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4649	15.4051	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.5209	15.4608	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.5915	15.5310	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.7077	15.6466	0.0000	0.0000	0	0.00		
			<u>130,395</u>					<u>555.00</u>	<u>8,029,810.00</u>	<u>10 662 215.00</u>	<u>130 406 565 035.90</u>

Option

Sep 2018	DAUS	14.48 Put	40,000	119.6252	209.5913	0.0000	0.0000	0	0.00
Sep 2018	DAUS	14.75 Call	20,000	11.2360	28.4362	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.00 Put	500	0.0723	0.2726	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.78 Call	500	610.6806	566.5225	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Put	1,000	5.9232	16.8124	0.0000	0.0000	0	0.00
Sep 2018	DAUS	14.25 Put	250	52.8432	106.9322	0.0000	0.0000	0	0.00
Sep 2018	DAUS	14.54 Call	250	48.4908	68.7697	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>
Sep 2018	DAUS	16.25 Call	500	0.1526	0.5168	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.80 Call	500	0.0562	0.1650	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.88 Put	314	562.2550	625.4577	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.96 Call	314	85.2922	94.6317	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	11.3628	15.6146	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	532.2891	508.9197	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	8.7795	12.0453	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	79.9220	102.4296	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	630.9368	604.5532	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	125.5268	154.7267	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	232.2943	272.0868	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	330.5253	323.8767	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	248.9133	247.1666	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	577.2839	631.9119	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	184.3555	185.9730	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	159.6750	162.3761	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	18.7339	21.3500	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	7.1174	8.7338	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.85 Put	1,100	607.0086	661.5376	0.0000	0.0000	0	0.00
Nov 2018	DAUS	15.50 Call	1,100	90.7327	94.7504	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	1.6023	2.4081	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	107.1412	132.6662	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	14.0040	16.0708	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.4050	0.5783	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	2.8806	3.5974	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1281.7754	1234.7166	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.00 Put	10,000	181.9658	213.3344	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	312.5748	308.9843	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	306.0848	302.8029	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	261.4849	260.2314	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	673.5849	726.5314	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	286.5148	284.3645	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	378.6771	372.5973	0.0000	0.0000	0	0.00
Nov 2018	DAUS	15.31 Call	10,000	193.0054	194.2479	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	22.5379	26.9532	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	149.0574	174.3984	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	672.1146	651.4760	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	322.3345	360.5820	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	340.9343	337.2457	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	61.3636	64.6230	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	36.0596	38.8012	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	1143.2659	1199.0842	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Dec 2018	DAUS	13.90 Put	30,000	193.2065	221.4433	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	360.4700	399.6546	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	724.0750	775.1489	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1024.1764	1078.9357	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	129.8947	150.3210	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	189.1951	216.2840	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	308.5225	307.0555	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	186.0880	188.8246	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	220.8415	248.0771	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	391.1691	429.2122	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	750.0404	800.1419	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1044.3677	1098.5339	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	61.5750	72.4242	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	76.1836	88.9633	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	479.0986	471.4901	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	446.4383	440.2533	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	49.7708	56.0201	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	203.1791	228.1037	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	714.8610	696.7656	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	385.3998	422.0519	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	807.3763	857.5864	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	101.1762	104.8407	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	66.9481	70.6219	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	42.0153	47.4846	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	75.7696	86.7475	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	438.2584	475.2404	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	745.6679	730.9679	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	463.1363	459.8168	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	98.5211	111.0402	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	478.0934	515.2980	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	773.9021	761.4816	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	506.9797	504.0999	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	119.5116	132.8441	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	513.4844	551.4887	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	799.9920	789.6494	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	544.2819	541.7685	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	137.1400	151.9952	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1552.7097	1519.7203	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	547.1985	584.1354	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	825.4791	815.6890	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	580.1612	577.8720	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	152.7922	168.5797	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>		
May 2019	DAUS	14.25 Put	250	577.0468	613.4004	0.0000	0.0000	0	0.00		
May 2019	DAUS	15.01 Call	500	848.2596	838.8529	0.0000	0.0000	0	0.00		
May 2019	DAUS	15.79 Call	250	612.0910	609.5515	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	14.72 Put	20,000	850.1974	892.7731	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	17.22 Call	20,000	386.2809	389.2908	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	13.00 Put	500	166.6173	181.1207	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	14.25 Put	250	601.7275	637.4861	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.17 Call	500	866.2784	857.4445	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.96 Call	250	637.5651	635.3502	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.45 Put	39,250	295.9009	317.9581	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.44 Call	39,250	544.9495	544.7939	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	178.0015	195.6665	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	627.4743	662.5189	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	893.3742	884.8412	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	670.7753	668.5453	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,950	755.4798	793.7565	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,950	652.2491	650.9500	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	186.0382	204.2248	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	648.9692	683.8454	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	909.5943	901.2606	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	693.8694	691.8794	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	344.8318	352.4480	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	195.0573	210.1333	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	671.6781	703.5592	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	934.2573	926.2724	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	722.9148	720.9285	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	210.3375	233.6628	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	694.9613	727.9667	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	959.5047	950.5681	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	753.6104	749.9300	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	227.0395	248.5728	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	714.5244	747.4967	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	987.3342	977.4576	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	784.1430	778.9840	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	243.7650	266.8262	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	733.6231	766.2503	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	1015.0196	1004.2912	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	817.6741	810.7505	0.0000	0.0000	0	0.00		
			<u>832,819</u>					<u>0.00</u>	<u>0.00</u>	<u>20 781 726.00</u>	<u>0.00</u>
	<b>Total</b>		<b>963,214</b>					<b>555.00</b>	<b>8,029,810.00</b>	<b>31 443 941.00</b>	<b>130 406 565 035.90</b>

Future

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
	Dec 2018	EUUS	Future	40	1.1853	1.1837	0.0000	0.0000	0	0.00	
				40					0.00	0.00	744 445.00
			<b>Total</b>	<b>40</b>					<b>0.00</b>	<b>0.00</b>	8 445 126 755.00
<b>Future</b>											
	Dec 2018	GBUS	Future	500	1.3208	1.3142	1.3219	1.3219	5	66,095.00	
				500					5.00	66,095.00	168 921.00
			<b>Total</b>	<b>500</b>					<b>5.00</b>	<b>66,095.00</b>	2 173 503 224.00
<b>Future</b>											
	Dec 2018	ZAAD	Future	36,596	10.5436	10.5506	10.5300	10.5300	1	10,530.00	
	Mar 2019	ZAAD	Future	520	10.6837	10.6905	0.0000	0.0000	0	0.00	
	Jun 2019	ZAAD	Future	4,929	10.8196	10.8265	0.0000	0.0000	0	0.00	
				42,045					1.00	10,530.00	3 738 493.00
			<b>Total</b>	<b>42,045</b>					<b>1.00</b>	<b>10,530.00</b>	32 577 492 747.10
<b>Future</b>											
	Dec 2018	ZACA	Future	600	11.2384	11.2247	0.0000	0.0000	0	0.00	
				600					0.00	0.00	137 653.00
			<b>Total</b>	<b>600</b>					<b>0.00</b>	<b>0.00</b>	1 355 055 071.60
<b>Future</b>											
	Dec 2018	ZADK	Future	240	2.3287	2.3144	0.0000	0.0000	0	0.00	
				240					0.00	0.00	12 335.00
			<b>Total</b>	<b>240</b>					<b>0.00</b>	<b>0.00</b>	265 809 909.00
<b>Future</b>											
	Dec 2018	ZAEU	Future	110,373	17.2240	17.1361	17.2480	17.1507	12,291	211,494,386.90	
	Mar 2019	ZAEU	Future	36,651	17.5823	17.4924	17.5328	17.5328	15	262,992.00	
	Jun 2019	ZAEU	Future	5,256	17.9219	17.8301	0.0000	0.0000	0	0.00	
	Sep 2019	ZAEU	Future	6,834	18.3006	18.2051	0.0000	0.0000	0	0.00	
				159,114					12,306.00	211,757,378.90	15 554 675.00
			<b>Total</b>								223 574 899 241.50
<b>Option</b>											
	Mar 2019	ZAEU	15.60 Put	462	117.3009	134.3377	0.0000	0.0000	0	0.00	
	Mar 2019	ZAEU	16.00 Call	650	1765.4365	1705.5641	0.0000	0.0000	0	0.00	
	Mar 2019	ZAEU	17.33 Put	462	691.6634	757.7267	0.0000	0.0000	0	0.00	
	Mar 2019	ZAEU	19.65 Call	462	324.2988	324.8839	0.0000	0.0000	0	0.00	
				2,036					0.00	0.00	10 794 564.00
			<b>Total</b>	<b>161,150</b>					<b>12,306.00</b>	<b>211,757,378.90</b>	26 349 239.00
<b>Future</b>											223 574 899 241.50

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Dec 2018	ZAFR	Future	1,648	15.1832	15.2207	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	15.8324	15.8694	0.0000	0.0000	0	0.00		
			<u>1,798</u>					<i>0.00</i>	<i>0.00</i>	<i>620 476.00</i>	<i>6 666 400 751.60</i>
	<b>Total</b>		<b>1,798</b>					<b>0.00</b>	<b>0.00</b>	<b>620 476.00</b>	<b>6 666 400 751.60</b>
<b>Future</b>											
Dec 2018	ZAGB	Future	448,253	19.1928	19.0257	19.2538	19.1520	416	8,007,963.40		
Mar 2019	ZAGB	Future	4,932	19.5236	19.3526	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	Future	5,856	19.8315	19.6588	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	10,363	20.1723	19.9951	0.0000	0.0000	0	0.00		
			<u>469,404</u>					<i>416.00</i>	<i>8,007,963.40</i>	<i>12 782 751.00</i>	<i>217 400 220 167.40</i>
<b>Option</b>											
Mar 2019	ZAGB	18.00 Put	500	317.1496	355.2134	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	754.2761	692.2703	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	388.1102	358.6886	0.0000	0.0000	0	0.00		
			<u>1,500</u>					<i>0.00</i>	<i>0.00</i>	<i>1 775 613.00</i>	<i>0.00</i>
	<b>Total</b>		<b>470,904</b>					<b>416.00</b>	<b>8,007,963.40</b>	<b>14 558 364.00</b>	<b>217 400 220 167.40</b>
<b>Future</b>											
Dec 2018	ZAJY	Future	6,905	0.1295	0.1294	0.0000	0.0000	0	0.00		
			<u>6,905</u>					<i>0.00</i>	<i>0.00</i>	<i>1 021 902.00</i>	<i>11 470 576 312.50</i>
	<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	0.1417	0.1408	0.0000	0.0000	0	0.00		
			<u>2,166</u>					<i>0.00</i>	<i>0.00</i>	<i>38 066.00</i>	<i>515 662 000.00</i>
	<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>											
Dec 2018	ZATR	Future	12,000	2.2301	2.1920	0.0000	0.0000	0	0.00		
			<u>12,000</u>					<i>0.00</i>	<i>0.00</i>	<i>383 239.00</i>	<i>1 228 466 169.00</i>
	<b>Total</b>		<b>12,000</b>					<b>0.00</b>	<b>0.00</b>	<b>383 239.00</b>	<b>1 228 466 169.00</b>
<b>Future</b>											
Dec 2018	ZAUM	Future	334	14.5314	14.4773	0.0000	0.0000	0	0.00		
Mar 2019	ZAUM	Future	10	14.7080	14.6529	0.0000	0.0000	0	0.00		
			<u>344</u>					<i>0.00</i>	<i>0.00</i>	<i>152 983.00</i>	<i>176 802 740 960.00</i>
	<b>Total</b>		<b>344</b>					<b>0.00</b>	<b>0.00</b>	<b>157 506.00</b>	<b>176 802 740 960.00</b>
<b>Future</b>											
Dec 2018	ZAUS	Future	787,336	14.5314	14.4773	14.6005	14.4949	53,236	773,376,701.70		

<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	Future	37,111	14.7080	14.6529	14.7421	14.7377	35	515,907.80		
Jun 2019	ZAUS	Future	19,430	14.8730	14.8173	14.9390	14.9377	20	298,767.00		
Sep 2019	ZAUS	Future	19,892	15.0535	14.9960	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	3,966	15.4296	15.3700	0.0000	0.0000	0	0.00		
			<u>867,735</u>					<u>53,291.00</u>	<u>774,191,376.50</u>	<u>186 807 978.00</u>	<u>2 235 116 948 779.10</u>

**Option**

Dec 2018	ZAUS	11.64 Put	2,764	6.5311	7.6732	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	7.5146	8.7842	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	9.0605	10.5694	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	10.2689	11.9621	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	10.5300	12.2625	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	11.6440	13.5441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	13.2095	15.3426	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	14.0724	16.3327	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	16.6005	19.2288	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	2050.7541	1999.6763	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	19.3541	22.3763	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	22.8808	26.3970	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	24.4101	28.1378	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	26.7324	30.7782	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	34.7339	39.8486	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1568.5032	1519.8261	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	37.1032	42.5261	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	39.6414	45.3922	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	42.3928	51.1911	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1385.2707	1341.7504	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	56.4253	67.3847	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1341.8270	1299.2682	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	60.4270	71.9682	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	70.5940	83.5530	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	72.1434	85.3140	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1174.1649	1135.8706	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	92.7649	108.5706	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1133.9109	1096.7763	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	102.5109	119.4763	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	124.1653	143.5444	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	143.6616	165.0446	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	148.8479	170.7420	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	162.3715	185.5509	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	922.2755	892.1338	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	173.7742	197.9938	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	908.1079	878.4962	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	13.80 Put	500	176.7079	201.1962	0.0000	0.0000	200	0.00
Dec 2018	ZAUS	13.90 Put	35,000	210.0221	237.3564	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	809.4411	784.0926	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	778.3668	754.4335	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	246.9668	277.1335	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	287.5351	320.4995	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	296.0838	329.6004	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	701.8122	681.5038	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	309.1740	343.5135	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	313.6100	348.2222	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	663.1082	644.7056	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	331.7082	367.4056	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	350.3744	387.1397	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	636.5298	619.4597	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	379.4295	417.7661	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	595.8252	580.8351	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	394.4252	433.5351	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	585.9963	571.5113	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	404.5963	444.2113	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	425.3455	465.9638	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	543.4415	531.1813	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	516.5681	505.7285	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	485.1681	528.4285	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	490.8042	534.4232	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	475.2002	467.0362	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,000	543.8002	589.7362	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	471.3204	463.3317	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	467.4715	459.6535	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	448.6825	441.7049	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	587.2825	634.4049	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	437.7673	431.2762	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	632.2215	680.4539	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	420.1567	414.4390	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	638.7567	687.1390	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	403.2533	398.2724	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	671.8533	720.9724	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	390.2246	385.8049	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	387.0345	382.7520	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	740.0778	790.5563	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	11,333	342.2612	339.8531	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	20,700	810.8612	862.5531	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	339.4734	337.1795	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	15.09 Call	500	318.0081	316.5740	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	315.4269	314.0950	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	302.8492	302.0044	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	959.4032	1013.1173	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	997.8685	1052.0120	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1036.8226	1091.2307	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	253.3636	254.1898	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	235.5488	236.9669	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	231.7759	233.3161	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	228.0710	229.7274	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1196.6710	1252.4274	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	226.2428	227.9572	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	212.1782	214.3201	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	210.4872	212.6794	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	208.8131	211.0548	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	194.3893	197.0369	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	189.8298	192.5988	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1482.7101	1539.9756	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	172.7559	175.9540	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	164.8733	168.2525	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	50	153.8074	156.9764	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	140.5453	143.9118	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	137.1453	140.5583	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	130.6080	134.1027	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	126.4382	129.9792	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	97.8898	101.6187	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	81.1790	84.8908	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	69.6936	73.3248	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	4.6773	5.3549	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	15.2687	17.7094	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	52.4910	59.6229	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	55.7970	63.2775	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	97.7119	109.1740	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	100.3926	112.0880	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	111.6987	124.3498	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	119.2531	132.5207	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	130.4867	144.6479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	135.5440	150.0959	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	153.4878	171.1281	0.0000	0.0000	224,707	0.00
Mar 2019	ZAUS	13.36 Put	134,750	178.9749	198.6207	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	204.5262	226.0305	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	229.5062	252.7177	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	13.68 Put	14,200	268.9811	294.6994	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	275.4146	301.5220	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	281.9484	308.4420	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	291.9251	319.0052	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	305.5745	333.4320	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	330.4004	359.6223	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	345.1300	375.1278	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	385.1179	418.5035	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	402.4201	436.5806	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	514.9157	553.5436	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	1,000	932.9451	916.8334	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	550.4608	590.3283	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	597.9223	639.3288	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	847.6341	834.6099	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	838.6333	825.9333	0.0000	0.0000	224,707	0.00
Mar 2019	ZAUS	14.50 Put	10,000	630.6333	673.0333	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	647.3070	690.1937	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	664.1887	707.5553	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	716.0560	760.8232	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	769.7911	815.8108	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	819.0949	866.0928	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	825.3533	872.4691	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	831.6323	878.8652	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	656.5365	650.0217	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	961.3741	1010.8024	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1015.4121	1065.6362	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1022.2505	1072.5658	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	587.7750	583.3719	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1063.6433	1114.5227	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1070.6056	1121.5753	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1155.4667	1207.4737	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	508.0462	506.1136	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	505.4632	503.5997	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,707	495.2887	493.6921	0.0000	0.0000	224,707	0.00
Mar 2019	ZAUS	15.54 Call	721	485.3464	484.0111	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	456.8886	456.2750	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	424.0333	424.2130	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	407.6658	408.2259	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	15,000	386.3831	387.4205	0.0000	0.0000	5,000	0.00
Mar 2019	ZAUS	16.13 Call	138,000	362.9552	364.0784	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	332.8825	334.3480	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	319.6052	321.3182	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	16.58 Call	10,000	288.9700	291.2251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	286.0983	288.4009	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	239.6727	242.6609	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	238.5176	241.5192	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	232.8296	235.9035	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	226.2182	229.3710	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	225.1374	228.3040	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	224.0654	227.2430	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	210.6481	213.9710	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	203.8266	207.2170	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	185.7690	189.3094	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	155.1830	159.7476	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	138.2181	142.6569	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	12.2242	13.7955	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	47.5191	51.2490	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	110.2863	119.6851	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	155.7433	168.9595	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	160.2049	173.7811	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	220.3346	238.5540	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	408.9036	437.3448	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	6,250	427.9613	457.2392	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1360.6278	1335.8753	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1130.4730	1112.6388	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	1058.1202	1042.5867	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	793.5336	834.3972	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	958.7702	946.4674	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	710.4266	705.7143	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	6,250	690.7692	686.6306	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	643.4839	640.6404	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	614.1372	612.0765	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	595.4796	593.9126	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	293.4004	297.2568	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	19.0227	19.9572	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	75.7667	86.1105	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	513.6962	542.2272	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	538.1803	567.5190	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	589.0911	620.0398	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	611.0625	642.6764	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	642.5636	675.1037	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	699.5389	735.3192	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	911.9290	952.7113	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1322.3066	1369.5750	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>
Sep 2019	ZAUS	15.55 Call	30,000	940.2310	931.5841	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1443.5745	1492.5226	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	845.4370	839.6557	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	552.3557	554.1265	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	489.6805	492.9000	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	461.2708	465.1204	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	451.0457	455.1141	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	414.4460	420.7194	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	399.4251	406.1463	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	33,715	386.9700	394.0649	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.67 Call	141,127	383.9823	391.1634	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	19.32 Call	33,151	341.6052	350.0299	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	57.3002	63.5799	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	467.2458	495.7247	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	17.38 Call	1,000	716.0116	711.5472	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	20.00 Call	2,000	436.3512	431.4546	0.0000	0.0000	0	0.00
			<u>7,646,942</u>					<u>679,321.00</u>	<u>0.00</u>
									<u>60 003 271.00</u>
									<u>0.00</u>
		<b>Total</b>	<b>8,514,677</b>					<b>732,612.00</b>	<b>774,191,376.50</b>
									<b>246 811 249.00</b>
									<b>2 235 116 948 779.10</b>

<b>Grand Total</b>	<b>10,356,679</b>							<b>745,895.00</b>	<b>1 002 063 153.80</b>	<b>336,984,594</b>	<b>3,103,378,009,973.12</b>
--------------------	-------------------	--	--	--	--	--	--	-------------------	-------------------------	--------------------	-----------------------------