



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 21-September-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Oct 2018	CC01	Future	25,000	623.4716	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>
		Total	25,000					0.00	0.00	25 000.00	7 830 750.00
Future											
Oct 2018	DAEU	Future	34	16.9201	17.0288	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>
Option											
Aug 2019	DAEU	16.03 Put	31,200	299.9671	274.2453	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	16.24 Put	30,200	352.3920	322.7214	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	31,200	631.1288	579.2299	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	744.5132	764.5711	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>
		Total	155,034					0.00	0.00	2 099 315.00	11 965 949 271.80
Future											
Sep 2018	DAGB	Future	14	18.7692	19.1369	0.0000	0.0000	0	0.00		
Oct 2018	DAGB	Future	48	18.8247	19.1934	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>
		Total	62					0.00	0.00	261 144.00	883 358 081.80
Future											
Sep 2018	DAUS	Future	0	14.4038	14.4409	0.0000	0.0000	300	4,317,000.00		
Sep 2018	DAUS	Future	197	14.3294	14.4409	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	Future	3,037	14.3312	14.4390	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	55	14.3388	14.4468	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	189	14.3407	14.4487	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	4,041	14.3632	14.4714	0.0000	0.0000	1,041	14,929,909.90		
Oct 2018	DAUS	Future	235	14.3670	14.4752	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.3820	14.4903	0.0000	0.0000	0	0.00		

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Oct 2018	DAUS	Future	225	14.3896	14.4981	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.3915	14.5000	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	4,099	14.3934	14.5019	0.0000	0.0000	300	4,288,500.00		
Nov 2018	DAUS	Future	55	14.3953	14.5039	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.4180	14.5270	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.4218	14.5309	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	120	14.4237	14.5328	0.0000	0.0000	300	4,347,600.00		
Nov 2018	DAUS	Future	461	14.4484	14.5580	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	5,476	14.4504	14.5599	0.0000	0.0000	1,775	25,455,125.00		
Dec 2018	DAUS	Future	3,672	14.4734	14.5833	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	4,134	14.5097	14.6200	0.0000	0.0000	572	8,253,184.00		
Jan 2019	DAUS	Future	55	14.5134	14.6237	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.5655	14.6763	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,420	14.5673	14.6782	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.5915	14.7026	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,787	14.6194	14.7307	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,414	14.6696	14.7814	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.6734	14.7851	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.6808	14.7926	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.7332	14.8451	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.7911	14.9033	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.8492	14.9617	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.9083	15.0214	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.9693	15.0831	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0274	15.1418	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0873	15.2018	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.1533	15.2679	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2173	15.3319	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2772	15.3919	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.3411	15.4559	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4051	15.5200	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4608	15.5757	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.5310	15.6460	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.6466	15.7617	0.0000	0.0000	0	0.00		
			<u>130,540</u>					<u>4,288.00</u>	<u>61,591,318.90</u>	<u>10 661 660.00</u>	<u>130 398 535 225.90</u>

Option

Sep 2018	DAUS	14.48 Put	40,000	209.5913	152.1411	0.0000	0.0000	0	0.00
Sep 2018	DAUS	14.75 Call	20,000	28.4362	46.8102	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.00 Put	500	0.2726	0.3143	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.78 Call	500	566.5225	669.3222	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Put	1,000	16.8124	11.3800	0.0000	0.0000	0	0.00
Sep 2018	DAUS	14.25 Put	250	106.9322	78.6771	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	14.54 Call	250	68.7697	109.4699	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.25 Call	500	0.5168	0.9723	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.80 Call	500	0.1650	0.3380	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.88 Put	314	625.4577	540.4739	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.96 Call	314	94.6317	114.8458	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	15.6146	11.8456	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	508.9197	585.6145	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	12.0453	9.5497	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	102.4296	79.4962	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	604.5532	683.3550	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	154.7267	0.0000	0.0000	0.0000	600	0.00
Oct 2018	DAUS	14.25 Put	250	272.0868	223.7973	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	323.8767	0.0000	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	247.1666	282.4703	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	631.9119	552.4913	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	185.9730	0.0000	0.0000	0.0000	600	0.00
Oct 2018	DAUS	15.01 Call	114	162.3761	184.8246	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	21.3500	25.1772	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	8.7338	10.5266	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.85 Put	1,100	661.5376	581.6528	0.0000	0.0000	0	0.00
Nov 2018	DAUS	15.50 Call	1,100	94.7504	107.4958	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	2.4081	2.7166	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	132.6662	105.7092	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	16.0708	19.1594	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.5783	0.4726	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	3.5974	3.5118	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1234.7166	1337.7773	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.00 Put	10,000	213.3344	178.4567	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	308.9843	346.4895	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	302.8029	339.5504	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	260.2314	291.6501	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	726.5314	648.8501	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	284.3645	318.0742	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	372.5973	415.3550	0.0000	0.0000	0	0.00
Nov 2018	DAUS	15.31 Call	10,000	194.2479	216.2542	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	26.9532	26.5014	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	174.3984	147.0490	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	651.4760	721.0281	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	360.5820	312.6341	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	337.2457	373.6958	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	64.6230	70.8610	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	38.8012	42.2095	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	15.45 Put	23,000	1199.0842	1110.6451	0.0000	0.0000	46,000	0.00
Dec 2018	DAUS	13.90 Put	30,000	221.4433	188.1900	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	399.6546	349.1656	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	775.1489	700.0446	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	1078.9357	993.7650	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	150.3210	128.2511	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	216.2840	184.0828	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	307.0555	337.3794	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	188.8246	206.5739	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	248.0771	214.1759	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	429.2122	378.5227	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	800.1419	726.5015	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	1098.5339	1014.7466	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	72.4242	61.8314	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	88.9633	76.0083	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	471.4901	515.5093	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	440.2533	481.3715	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	56.0201	51.9865	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	228.1037	197.8753	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	696.7656	758.7615	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	422.0519	372.5239	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	857.5864	782.3107	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	104.8407	112.6860	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	70.6219	74.8052	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	47.4846	43.3267	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	86.7475	78.2039	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	475.2404	422.2003	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	730.9679	784.2757	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	459.8168	491.1158	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	111.0402	98.2544	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	515.2980	460.2629	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	761.4816	809.0605	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	504.0999	532.7545	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	132.8441	115.5505	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	551.4887	495.1001	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	789.6494	832.3711	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	541.7685	567.7785	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	151.9952	132.1898	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1519.7203	1600.2198	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	584.1354	526.9886	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	815.6890	854.4433	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	577.8720	601.4746	0.0000	0.0000	0	0.00

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May 2019	DAUS	13.00 Put	500	168.5797	148.1143	0.0000	0.0000	0	0.00		
May 2019	DAUS	14.25 Put	250	613.4004	555.3920	0.0000	0.0000	0	0.00		
May 2019	DAUS	15.01 Call	500	838.8529	874.5193	0.0000	0.0000	0	0.00		
May 2019	DAUS	15.79 Call	250	609.5515	631.5317	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	14.72 Put	20,000	892.7731	822.1716	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	17.22 Call	20,000	389.2908	398.2751	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	13.00 Put	500	181.1207	158.7680	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	14.25 Put	250	637.4861	579.1993	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.17 Call	500	857.4445	890.3738	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.96 Call	250	635.3502	655.5159	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.45 Put	39,250	317.9581	283.1137	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.44 Call	39,250	544.7939	560.6918	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	195.6665	168.8399	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	662.5189	603.6132	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	884.8412	915.5143	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	668.5453	687.4407	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,950	793.7565	728.5330	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,950	650.9500	667.6288	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	204.2248	169.8872	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	683.8454	627.2006	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	901.2606	929.7502	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	691.8794	709.3075	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	352.4480	350.8010	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	210.1333	178.0693	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	703.5592	648.8268	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	926.2724	954.5701	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	720.9285	738.9166	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	233.6628	199.3103	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	727.9667	671.6721	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	950.5681	978.0539	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	749.9300	768.2284	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	248.5728	215.6316	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	747.4967	690.8118	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	977.4576	1003.6901	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	778.9840	797.3815	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	266.8262	235.1704	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	766.2503	709.9225	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	1004.2912	1029.5930	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	810.7505	828.8610	0.0000	0.0000	0	0.00		
			<u>832,819</u>					<u>47,200.00</u>	<u>0.00</u>	<u>20 781 726.00</u>	<u>0.00</u>
	Total		963,359					51,488.00	61,591,318.90	31 443 386.00	130 398 535 225.90

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Dec 2018	EUUS	Future	40	1.1837	1.1823	1.1887	1.1887	20	237,740.00		
			40					20.00	237,740.00	744 445.00	8 445 126 755.00
		Total	40					20.00	237,740.00	744 445.00	8 445 126 755.00
Future											
Dec 2018	GBUS	Future	500	1.3142	1.3298	0.0000	0.0000	0	0.00		
			500					0.00	0.00	168 916.00	2 173 437 129.00
		Total	500					0.00	0.00	168 916.00	2 173 437 129.00
Future											
Dec 2018	ZAAD	Future	36,595	10.5506	10.6157	10.5121	10.5000	110	1,155,181.50		
Mar 2019	ZAAD	Future	520	10.6905	10.7570	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,929	10.8265	10.8934	0.0000	0.0000	0	0.00		
			42,044					110.00	1,155,181.50	3 738 492.00	32 577 482 217.10
		Total	42,044					110.00	1,155,181.50	3 770 869.00	32 577 482 217.10
Future											
Dec 2018	ZACA	Future	600	11.2247	11.3209	0.0000	0.0000	0	0.00		
			600					0.00	0.00	137 653.00	1 355 055 071.60
		Total	600					0.00	0.00	137 653.00	1 355 055 071.60
Future											
Dec 2018	ZADK	Future	240	2.3144	2.3302	0.0000	0.0000	0	0.00		
			240					0.00	0.00	12 335.00	265 809 909.00
		Total	240					0.00	0.00	12 335.00	265 809 909.00
Future											
Dec 2018	ZAEU	Future	111,297	17.1361	17.2463	17.2432	17.0415	1,167	19,994,783.10		
Mar 2019	ZAEU	Future	36,651	17.4924	17.6048	17.4410	17.4410	5	87,205.00		
Jun 2019	ZAEU	Future	5,256	17.8301	17.9445	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	Future	6,834	18.2051	18.3230	0.0000	0.0000	0	0.00		
			160,038					1,172.00	20,081,988.10	15 542 369.00	223 363 141 862.60
Option											
Mar 2019	ZAEU	15.60 Put	462	134.3377	117.7913	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	16.00 Call	650	1705.5641	1787.8175	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	17.33 Put	462	757.7267	687.6282	0.0000	0.0000	0	0.00		
Mar 2019	ZAEU	19.65 Call	462	324.8839	335.9363	0.0000	0.0000	0	0.00		
			2,036					0.00	0.00	10 794 564.00	0.00
		Total	162,074					1,172.00	20,081,988.10	26 336 933.00	223 363 141 862.60

<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	ZAFR	Future	1,648	15.2207	15.2891	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	150	15.8694	15.9416	0.0000	0.0000	0	0.00		
			<u>1,798</u>					<u>0.00</u>	<u>0.00</u>	<u>620 476.00</u>	<u>6 666 400 751.60</u>
		Total	1,798					0.00	0.00	620 476.00	6 666 400 751.60
Future											
Dec 2018	ZAGB	Future	448,255	19.0257	19.3985	19.2099	19.1415	28,236	543,840,053.00		
Mar 2019	ZAGB	Future	4,932	19.3526	19.7317	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	Future	5,856	19.6588	20.0413	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	10,363	19.9951	20.3826	0.0000	0.0000	0	0.00		
			<u>469,406</u>					<u>28,236.00</u>	<u>543,840,053.00</u>	<u>12 782 335.00</u>	<u>217 392 212 204.00</u>
		Total	469,406					28,236.00	543,840,053.00	12 782 335.00	217 392 212 204.00
Option											
Mar 2019	ZAGB	18.00 Put	500	355.2134	271.9220	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	692.2703	840.9062	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	358.6886	437.4922	0.0000	0.0000	0	0.00		
			<u>1,500</u>					<u>0.00</u>	<u>0.00</u>	<u>1 775 613.00</u>	<u>0.00</u>
		Total	470,906					28,236.00	543,840,053.00	14 557 948.00	217 392 212 204.00
Future											
Dec 2018	ZAJY	Future	6,905	0.1294	0.1305	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	0.1408	0.1420	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											
Dec 2018	ZATR	Future	12,000	2.1920	2.2199	0.0000	0.0000	0	0.00		
			<u>12,000</u>					<u>0.00</u>	<u>0.00</u>	<u>383 239.00</u>	<u>1 228 466 169.00</u>
		Total	12,000					0.00	0.00	383 239.00	1 228 466 169.00
Future											
Dec 2018	ZAUM	Future	334	14.4773	14.5872	0.0000	0.0000	0	0.00		
Mar 2019	ZAUM	Future	10	14.6529	14.7645	0.0000	0.0000	0	0.00		
			<u>344</u>					<u>0.00</u>	<u>0.00</u>	<u>152 983.00</u>	<u>176 802 740 960.00</u>
		Total	344					0.00	0.00	152 983.00	176 802 740 960.00

Future

<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	Future	783,832	14.4773	14.5872	14.6014	14.3326	186,613	2,697,813,617.80	
Mar 2019	ZAUS	Future	37,096	14.6529	14.7645	14.7229	14.5300	1,015	14,792,419.90	
Jun 2019	ZAUS	Future	19,410	14.8173	14.9295	14.7200	14.7196	5	73,598.80	
Sep 2019	ZAUS	Future	19,892	14.9960	15.1100	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	Future	3,966	15.3700	15.4848	0.0000	0.0000	0	0.00	
			<u>864,196</u>					<u>187,633.00</u>	<u>2,712,679,636.50</u>	<u>186 754 687.00</u>

Option

Dec 2018	ZAUS	11.64 Put	2,764	7.6732	7.2886	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	8.7842	8.4241	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	10.5694	10.1339	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	11.9621	11.4659	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	12.2625	11.7531	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	13.5441	12.9764	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	15.3426	14.6902	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	16.3327	15.6324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	19.2288	18.3829	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1999.6763	2108.5627	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	22.3763	21.3627	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	26.3970	25.1575	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	28.1378	26.7964	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	30.7782	29.2777	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	39.8486	37.7624	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1519.8261	1627.4572	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	42.5261	40.2572	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	45.3922	42.9228	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	51.1911	45.7715	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1341.7504	1441.8693	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	67.3847	57.1605	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1299.2682	1398.2573	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	71.9682	61.0573	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	83.5530	70.9323	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	85.3140	72.4344	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1135.8706	1229.5696	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	108.5706	92.3696	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1096.7763	1188.9641	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	119.4763	101.7641	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	143.5444	122.5912	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	165.0446	141.3052	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	170.7420	146.2796	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	185.5509	159.2462	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	892.1338	974.5927	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	197.9938	170.1696	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.80 Call	3,264	878.4962	960.1799	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	400	201.1962	172.9799	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	237.3564	203.9672	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	784.0926	858.5004	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	754.4335	826.7078	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	277.1335	239.5078	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	320.4995	278.5602	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	329.6004	286.7919	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	681.5038	748.1616	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	343.5135	299.4033	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	348.2222	303.6753	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	644.7056	708.3164	0.0000	0.0000	50,000	0.00
Dec 2018	ZAUS	14.20 Put	13,650	367.4056	321.1164	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	387.1397	339.1124	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	619.4597	680.8991	0.0000	0.0000	50,000	0.00
Dec 2018	ZAUS	14.30 Put	35,000	417.7661	367.1416	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	580.8351	638.8140	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	433.5351	381.6140	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	571.5113	628.6324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	444.2113	391.4324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	465.9638	411.4721	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	531.1813	584.4712	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	505.7285	556.5092	0.0000	0.0000	500	0.00
Dec 2018	ZAUS	14.50 Put	15,500	528.4285	469.3092	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	534.4232	474.7606	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	467.0362	512.4619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,000	589.7362	525.2619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	463.3317	508.4071	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	459.6535	504.3831	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	441.7049	484.7191	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	634.4049	567.5191	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	431.2762	473.2804	0.0000	0.0000	50,000	0.00
Dec 2018	ZAUS	14.74 Put	13,150	680.4539	611.2392	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	414.4390	454.8011	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	687.1390	617.6011	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	398.2724	437.0324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	720.9724	649.8324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	385.8049	423.3188	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	382.7520	0.0000	0.0000	0.0000	50,000	0.00
Dec 2018	ZAUS	14.90 Put	35,000	790.5563	716.3551	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	11,333	339.8531	372.6755	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	20,700	862.5531	785.4755	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.01 Call	10,000	337.1795	369.7239	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	316.5740	346.9653	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	314.0950	344.2248	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	302.0044	330.8557	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1013.1173	930.8349	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	1052.0120	968.5397	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1091.2307	1006.7507	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	254.1898	278.2302	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	236.9669	259.2424	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	233.3161	255.2174	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	229.7274	251.2579	0.0000	0.0000	2,000	0.00
Dec 2018	ZAUS	15.50 Put	600	1252.4274	1164.0579	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	227.9572	249.3045	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	214.3201	234.2582	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	212.6794	232.4492	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	211.0548	230.6556	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	197.0369	215.1813	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	192.5988	210.2841	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1539.9756	1446.1636	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	175.9540	191.9013	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	168.2525	183.3966	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	50	156.9764	171.4315	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	143.9118	157.4844	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	140.5583	153.7867	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	134.1027	146.6697	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	129.9792	142.1228	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	101.6187	110.8522	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	84.8908	92.4112	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	73.3248	79.6672	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	5.3549	4.9100	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	17.7094	15.6504	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	59.6229	51.3311	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	63.2775	54.5769	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	109.1740	95.7201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	112.0880	98.3519	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	124.3498	109.4473	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	132.5207	116.8620	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	144.6479	127.8851	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	150.0959	132.8476	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	198.6207	173.5807	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	226.0305	198.1339	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	252.7177	222.1436	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.68 Put	14,200	294.6994	260.1098	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	301.5220	266.2982	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	308.4420	272.5841	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	319.0052	282.1903	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	333.4320	295.3311	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	359.6223	319.2431	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	375.1278	333.4366	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	418.5035	370.6032	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	436.5806	387.3388	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	553.5436	496.4994	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	1,000	916.8334	970.7478	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	590.3283	531.0618	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	639.3288	577.2542	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	834.6099	882.9074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,000	673.0333	609.1257	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	690.1937	625.3765	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	707.5553	641.8361	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	760.8232	692.4525	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	815.8108	744.8778	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	866.0928	793.1502	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	872.4691	799.2844	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	878.8652	805.4394	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	650.0217	685.3821	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	1010.8024	932.7666	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1065.6362	985.8672	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1072.5658	992.5899	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	583.3719	614.1586	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1114.5227	1033.3031	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1121.5753	1040.1479	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1207.4737	1123.6783	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	506.1136	531.3764	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	503.5997	528.6580	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	3,000	493.6921	0.0000	0.0000	0.0000	3,000	0.00
Mar 2019	ZAUS	15.54 Call	721	484.0111	507.5967	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	456.2750	477.9792	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	424.2130	443.7523	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	408.2259	426.6823	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	20,000	387.4205	404.4756	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	364.0784	380.0082	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	334.3480	349.9891	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	321.3182	336.0734	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	291.2251	303.9405	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	16.60 Call	50	288.4009	300.9260	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	242.6609	252.1307	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	241.5192	250.9124	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	235.9035	244.9294	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	229.3710	237.9668	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	228.3040	236.8288	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	227.2430	235.7000	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	213.9710	221.5672	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	207.2170	214.3783	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	189.3094	195.3339	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	159.7476	161.6792	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	142.6569	143.4167	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	13.7955	13.0557	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	51.2490	44.8813	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	119.6851	104.5995	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	168.9595	148.0780	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	173.7811	152.3500	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	238.5540	210.0888	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	437.3448	394.5474	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	6,250	457.2392	413.0176	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1335.8753	1400.9851	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1112.6388	1162.0699	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	1042.5867	1087.7813	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	834.3972	766.1031	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	946.4674	985.6352	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	705.7143	731.5406	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	6,250	686.6306	711.2836	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	640.6404	662.4832	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	612.0765	632.3554	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	593.9126	613.2021	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	297.2568	298.1291	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	19.9572	20.0446	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	86.1105	70.5746	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	542.2272	494.8214	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	567.5190	518.5348	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	620.0398	567.8976	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.14 Put	141,127	642.6764	589.2161	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	675.1037	619.8057	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	735.3192	674.2428	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.72 Put	1,200	952.7113	881.5651	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1369.5750	1286.5383	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.55 Call	30,000	931.5841	959.7607	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	15.56 Put	2,571	1492.5226	1406.5398	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	839.6557	862.7744	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	554.1265	564.3811	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	492.9000	500.3659	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	465.1204	471.3489	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	455.1141	460.9060	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	420.7194	422.1046	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	406.1463	406.6233	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	394.0649	393.7834	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	391.1634	390.7033	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	350.0299	347.0120	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	63.5799	57.6993	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	495.7247	451.7864	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	711.5472	726.4723	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	431.4546	446.0568	0.0000	0.0000	0	0.00		
			<u>6,980,721</u>					<u>205,500.00</u>	<u>0.00</u>	<u>59 323 950.00</u>	<u>0.00</u>
		Total	<u>7,844,917</u>					<u>393,133.00</u>	<u>2,712,679,636.50</u>	<u>246 078 637.00</u>	<u>2 234 342 757 402.60</u>

Grand Total	<u>9,687,989</u>			<u>474,159.00</u>	<u>3 339 585 918.00</u>	<u>336,238,699</u>	<u>3,102,375,946,819.32</u>
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