



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 11-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Oct 2018	CC01	Future	25,000	698.9971	697.8509	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	0	16.9318	16.9072	0.0000	0.0000	34	576,534.60		
Nov 2018	DAEU	Future	37	16.9867	17.0420	0.0000	0.0000	37	630,554.00		
			<u>37</u>					<u>71.00</u>	<u>1,207,088.60</u>	<u>801 399.00</u>	<u>11 967 156 360.40</u>
Option											
Aug 2019	DAEU	17.01 Put	31,200	593.7721	600.6482	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	701.2990	699.7179	0.0000	0.0000	0	0.00		
			<u>93,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 390 587.00</u>	<u>0.00</u>
		Total	93,637					71.00	1,207,088.60	2 191 986.00	11 967 156 360.40
Future											
Oct 2018	DAGB	Future	48	19.3479	19.3545	0.0000	0.0000	0	0.00		
Nov 2018	DAGB	Future	13	19.3824	19.4600	0.0000	0.0000	13	252,980.00		
			<u>61</u>					<u>13.00</u>	<u>252,980.00</u>	<u>53 906.00</u>	<u>888 158 311.00</u>
		Total	61					13.00	252,980.00	261 219.00	888 158 311.00
Future											
Oct 2018	DAUS	Future	4,314	14.6351	14.6582	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	235	14.6334	14.6620	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.6487	14.6774	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.6564	14.6851	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.6583	14.6871	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	4,209	14.6602	14.6890	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	55	14.6621	14.6910	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.6851	14.7142	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.6890	14.7181	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>
Nov 2018	DAUS	Future	308	14.6909	14.7200	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	179	14.7025	14.7316	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	461	14.7160	14.7451	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	8,824	14.7179	14.7470	0.0000	0.0000	72	1,056,744.00
Dec 2018	DAUS	Future	3,672	14.7410	14.7702	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	3,714	14.7776	14.8073	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.7814	14.8112	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.8350	14.8654	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,020	14.8369	14.8673	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	14.8617	14.8923	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	5,787	14.8903	14.9211	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,731	14.9419	14.9729	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	3,029	14.9457	14.9768	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	55	14.9533	14.9844	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,280	15.0071	15.0384	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	55	15.0671	15.0982	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	15.1270	15.1581	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	15.1868	15.2184	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	15.2485	15.2810	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.3064	15.3396	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	15.3652	15.4001	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	15.4326	15.4703	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.4980	15.5383	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	15.5591	15.6019	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	15.6245	15.6699	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.6899	15.7379	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	15.7468	15.7972	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	15.8185	15.8717	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	15.9365	15.9946	0.0000	0.0000	0	0.00
			<u>129,657</u>					<u>72.00</u>	<u>1,056,744.00</u>
									<u>10 716 978.00</u>
									<u>131 188 288 978.50</u>
Option									
Oct 2018	DAUS	14.88 Put	314	286.0525	280.4906	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.96 Call	314	29.3890	43.3320	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.50 Put	20,000	113.3014	112.2392	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	2.0272	2.4049	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	660.7510	689.0217	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	3.3283	3.1594	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	23.1106	24.3996	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	763.3590	792.5150	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.97 Put	600	38.8477	38.0064	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	100.4096	97.3878	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.34 Put	171	129.4500	125.3939	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	14.44 Call	171	387.6850	411.1058	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.45 Call	600	381.8265	405.1070	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	268.7464	288.2974	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.82 Put	114	369.7690	357.6575	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.90 Call	600	183.4581	198.9002	0.0000	0.0000	0	0.00
Oct 2018	DAUS	15.01 Call	114	151.9128	165.6952	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	9.4721	11.3121	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	3.3469	3.9651	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	0.2001	0.1783	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	38.1432	38.8067	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	8.5184	9.8343	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.34 Put	171	194.5259	187.0201	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	451.7450	471.2671	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0780	0.0787	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.4929	0.5063	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1479.6014	1508.3946	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	351.6996	368.2276	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	343.4612	359.7436	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	286.9675	301.4548	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	486.0675	471.4548	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	317.5928	332.5116	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	432.6497	450.7879	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	11.4548	12.0060	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	79.7843	76.5479	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	89.7369	86.0372	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	785.8228	808.6066	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	204.7730	196.9372	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	641.6468	662.4493	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	388.9560	404.1127	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	381.1378	396.0903	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	51.9693	55.5246	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	26.8875	28.9022	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	939.6238	919.8866	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	112.5509	108.0601	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	238.8495	230.5239	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	548.4934	533.6325	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	826.6463	808.1773	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	72.0132	68.8162	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	112.6485	108.0050	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	337.6652	350.1243	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	190.5318	198.5808	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	137.8261	132.7157	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	14.30 Put	35,000	270.3051	261.0368	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	579.7135	564.5782	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	852.0663	833.7820	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	33.4977	32.0498	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	38.7526	37.0740	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	540.8578	557.9175	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	500.2701	516.5672	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	30.4022	29.3903	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	128.9223	124.7692	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	814.0486	836.1939	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	268.1624	260.3230	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	634.9804	620.2348	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	93.6464	97.9890	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	56.9727	59.8810	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	25.8827	25.3790	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	49.6577	48.6281	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	321.1321	314.2849	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	834.2576	856.7119	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	504.3922	520.2962	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	66.7420	65.8225	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	361.9413	355.7261	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	856.6748	879.0296	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	549.6932	565.7853	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	50,000	301.4993	297.5278	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	82.2595	80.9739	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	399.2733	392.7852	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	878.2042	899.8123	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	586.7711	602.9437	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	95.9665	93.5870	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1703.9047	1733.7461	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	433.4795	428.0683	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	898.9053	919.4159	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	622.1599	637.8464	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	107.0732	103.5865	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	465.1011	459.4188	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	919.3861	938.3492	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	654.4061	668.9815	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	713.7881	703.3243	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	403.8854	412.6564	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	114.8217	113.0444	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	491.4863	484.4504	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	935.1977	952.4141	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	15.96 Call	250	679.7607	692.6737	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	220.8962	217.8157	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	576.7625	587.5746	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	121.2689	120.0408	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	520.5927	512.3910	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	960.3037	977.0451	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	713.5449	726.1467	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,950	633.0845	623.3910	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,950	691.9347	703.8851	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	127.5264	127.5328	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	545.0417	537.0933	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	974.2193	990.4356	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	736.3698	748.8047	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	350.1940	353.9773	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	141.8445	139.4557	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	567.2595	558.6664	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	996.2859	1012.2972	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	764.3205	776.6778	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	156.6663	150.8635	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	590.4630	580.4174	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	1016.0252	1032.0397	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	791.5056	804.1588	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	170.6958	165.0826	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	610.5286	599.0085	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	1043.5498	1059.7736	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	823.2458	836.1321	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	186.9531	182.3864	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	630.0761	616.4278	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	1070.8453	1087.6787	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.05 Call	250	857.2810	870.7485	0.0000	0.0000	0	0.00
			<u>819,603</u>					<u>0.00</u>	<u>0.00</u>
		Total	949,260					72.00	1,056,744.00
									31 603 388.00
									131 188 288 978.50
Future									
Dec 2018	EUUS	Future	40	1.1621	1.1589	0.0000	0.0000	0	0.00
			<u>40</u>					<u>0.00</u>	<u>0.00</u>
		Total	40					0.00	0.00
									744 445.00
									8 445 126 755.00
Future									
Dec 2018	GBUS	Future	30	1.3253	1.3240	0.0000	0.0000	0	0.00
			<u>30</u>					<u>0.00</u>	<u>0.00</u>
									169 421.00
									2 180 058 224.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
Total			30					0.00	0.00	169 421.00	2 180 058 224.00	
Future												
	Dec 2018	ZAAD	Future	36,597	10.4895	10.4960	0.0000	0.0000	0	0.00		
	Mar 2019	ZAAD	Future	420	10.6308	10.6383	0.0000	0.0000	0	0.00		
	Jun 2019	ZAAD	Future	4,929	10.7693	10.7769	0.0000	0.0000	0	0.00		
				<u>41,946</u>					<u>0.00</u>	<u>0.00</u>	3 739 232.00	32 585 242 305.80
	Total			41,946					0.00	0.00	3 771 609.00	32 585 242 305.80
Future												
	Dec 2018	ZACA	Future	600	11.3079	11.3983	0.0000	0.0000	0	0.00		
				<u>600</u>					<u>0.00</u>	<u>0.00</u>	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	2.3179	2.3174	0.0000	0.0000	0	0.00		
				<u>240</u>					<u>0.00</u>	<u>0.00</u>	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	108,169	17.1348	17.1217	17.1868	17.1200	2,305	39,508,078.00		
	Mar 2019	ZAEU	Future	36,666	17.4959	17.4821	0.0000	0.0000	0	0.00		
	Jun 2019	ZAEU	Future	5,256	17.8372	17.8228	0.0000	0.0000	0	0.00		
	Sep 2019	ZAEU	Future	6,834	18.2128	18.2002	0.0000	0.0000	0	0.00		
				<u>156,925</u>					<u>2,305.00</u>	<u>39,508,078.00</u>	15 579 948.00	224 002 306 248.90
Option												
	Mar 2019	ZAEU	15.60 Put	462	115.3459	117.6060	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	16.00 Call	650	1682.4856	1672.1620	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	17.33 Put	462	707.5703	715.9080	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	19.65 Call	462	277.7064	276.8429	0.0000	0.0000	0	0.00		
				<u>2,036</u>					<u>0.00</u>	<u>0.00</u>	10 794 564.00	0.00
	Total			158,961					2,305.00	39,508,078.00	26 374 512.00	224 002 306 248.90
Future												
	Dec 2018	ZAFR	Future	1,748	14.9730	15.0071	0.0000	0.0000	0	0.00		
	Jun 2019	ZAFR	Future	150	15.6187	15.6542	0.0000	0.0000	0	0.00		
				<u>1,898</u>					<u>0.00</u>	<u>0.00</u>	620 576.00	6 667 908 161.60
	Total			1,898					0.00	0.00	620 576.00	6 667 908 161.60
Future												
	Dec 2018	ZAGB	Future	439,603	19.5421	19.5602	19.5678	19.5100	292	5,711,613.80		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Mar 2019	ZAGB	Future	6,644	19.8784	19.8987	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	Future	5,856	20.1932	20.2140	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	10,363	20.5367	20.5607	0.0000	0.0000	0	0.00		
			<u>462,466</u>					<u>292.00</u>	<u>5,711,613.80</u>	<u>12 813 405.00</u>	<u>217 980 630 319.40</u>
Option											
Dec 2018	ZAGB	19.30 Call	200	714.1182	728.2992	0.0000	0.0000	0	0.00		
Dec 2018	ZAGB	21.00 Call	400	180.1583	185.7494	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	18.00 Put	500	229.8534	231.7857	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	872.2607	886.3926	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	431.4122	439.2334	0.0000	0.0000	0	0.00		
			<u>2,100</u>					<u>0.00</u>	<u>0.00</u>	<u>1 776 213.00</u>	<u>0.00</u>
	Total		464,566					292.00	5,711,613.80	14 589 618.00	217 980 630 319.40
Future											
Dec 2018	ZAJY	Future	6,905	0.1319	0.1317	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	0.1440	0.1436	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	2.3693	2.3527	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	335	14.7449	14.7741	0.0000	0.0000	6	8,868,600.00		
Mar 2019	ZAUM	Future	10	14.9247	14.9556	0.0000	0.0000	0	0.00		
			<u>345</u>					<u>6.00</u>	<u>8,868,600.00</u>	<u>153 049.00</u>	<u>176 898 370 060.00</u>
	Total		345					6.00	8,868,600.00	157 572.00	176 898 370 060.00
Future											
Dec 2018	ZAUS	Future	875,159	14.7449	14.7741	14.8305	14.6500	50,243	741,687,568.70		
Mar 2019	ZAUS	Future	47,116	14.9247	14.9556	14.9950	14.9050	555	8,314,075.00		
Jun 2019	ZAUS	Future	18,950	15.0941	15.1253	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	Future	20,642	15.2755	15.3083	0.0000	0.0000	75	1,143,352.50		
Mar 2020	ZAUS	Future	3,966	15.6540	15.7006	0.0000	0.0000	0	0.00		
			<u>965,833</u>					<u>50,873.00</u>	<u>751,144,996.20</u>	<u>187 740 165.00</u>	<u>2 248 717 829 685.10</u>

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>	
Option										
Dec 2018	ZAUS	11.64 Put	2,764	2.5905	2.5380	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	11.75 Put	228,616	3.2738	3.2075	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	11.90 Put	11,300	4.2036	4.1062	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.00 Put	174,530	4.8601	4.7334	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.02 Put	5,500	5.0032	4.8700	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.10 Put	8,580	5.6200	5.4578	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.20 Put	7,300	6.5005	6.2952	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.25 Put	3,300	6.9919	6.7619	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.38 Put	39,589	8.4535	8.1471	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.50 Call	228,616	2254.9782	2283.7833	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.50 Put	26,400	10.0782	9.6833	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.63 Put	39,589	12.2005	11.6850	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.68 Put	10,000	13.1335	12.5640	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.75 Put	1,000	14.5633	13.9099	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	12.95 Put	500	19.5918	18.6331	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.00 Call	6,000	1766.0061	1794.1533	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.00 Put	177,520	21.1061	20.0533	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.05 Put	1,500	22.7410	21.5858	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.10 Put	11,300	24.5050	23.2386	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.20 Call	7,100	1573.3647	1601.0478	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.22 Put	5,500	29.3327	27.7598	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.25 Call	10,000	1525.5841	1553.1251	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.25 Put	17,800	30.6841	29.0251	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.32 Put	13,650	34.8866	32.9901	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.33 Put	135,000	35.8184	33.8801	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.45 Call	500	1343.4903	1370.1893	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.45 Put	4,080	48.5903	46.0893	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.50 Call	228,616	1299.7377	1326.1750	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.50 Put	29,800	54.8377	52.0750	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.60 Put	66,000	69.1390	65.7991	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.68 Put	13,150	82.4441	78.5970	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.70 Put	7,300	86.0462	82.0646	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.75 Put	700	95.5488	91.2226	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.78 Call	0	1066.5021	1091.1599	0.0000	0.0000	200	0.00	
Dec 2018	ZAUS	13.79 Put	10,000	103.6803	99.0647	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.80 Call	3,264	1050.6887	1075.1991	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.80 Put	500	105.7887	101.0991	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.90 Put	35,000	128.5740	123.1168	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	13.95 Call	39,589	936.0666	959.4014	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	14.00 Call	20,200	899.4842	922.4012	0.0000	0.0000	0	0.00	
Dec 2018	ZAUS	14.00 Put	58,250	154.5842	148.3012	0.0000	0.0000	0	0.00	

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Dec 2018	ZAUS	14.10 Put	1,867	185.6385	178.4040	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	192.2913	184.8610	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	810.5744	832.2455	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	202.5520	194.8248	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	206.0467	198.2198	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	765.2966	786.2673	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	220.3966	212.1673	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	235.3452	226.7081	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	734.0765	754.5368	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	258.8935	249.6367	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	686.0747	705.7049	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	271.1747	261.6049	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	674.4492	693.8676	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	279.5492	269.7676	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	296.7439	286.5437	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	646.0363	664.9281	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	623.9744	642.4453	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	591.9893	609.8235	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	347.0893	335.7235	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	351.8870	340.4126	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	541.5911	558.3645	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,000	396.6911	384.2645	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	536.7491	553.4168	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	531.9427	548.5022	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	508.4364	524.4694	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	433.5364	420.3694	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	494.7528	510.4715	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	472.0860	458.1890	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	472.6297	487.8295	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	477.7297	463.7295	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	452.0403	466.7733	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	507.1403	492.6733	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	436.1631	450.5278	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	432.2750	446.5502	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	568.4128	553.0356	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	377.7059	390.6535	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	30,700	632.8059	616.5535	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	374.3097	387.1712	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	348.1744	360.3651	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	345.0339	357.1420	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	329.7398	341.4429	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	770.2089	752.3197	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.25 Put	500	806.2178	787.9441	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	842.8434	824.1956	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	270.0116	280.0590	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	248.8244	258.2538	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	244.3506	253.6458	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	239.9570	249.1217	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	995.0570	975.0217	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	237.7639	246.8689	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	220.9425	229.5766	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	218.9258	227.5056	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	216.9299	225.4516	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	199.7769	207.8036	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	194.3746	202.2447	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1270.9333	1249.0491	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	174.2412	181.5090	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	165.0064	171.9899	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	10,050	152.1107	158.6907	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	137.7902	143.9089	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	134.1400	140.1386	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	127.1502	132.9162	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	122.7100	128.3268	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.50 Call	1,000	96.2038	100.8967	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	90.9702	95.4731	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	72.8582	76.6741	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	60.6990	64.0277	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	2.6365	2.6344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	11.1112	10.6959	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	34.4256	33.0429	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	36.6977	35.3247	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	66.1974	65.1999	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	68.1240	67.1604	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	76.2889	75.4823	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	81.7842	81.0892	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	90.0123	89.4905	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	93.7368	93.2956	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	107.0500	106.9065	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	118.7475	118.8763	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	123.3871	123.6238	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	142.1161	140.8038	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	150.7573	149.3003	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	162.0599	160.4099	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	173.9289	172.0746	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.68 Put	14,200	194.1210	191.9142	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	199.4036	197.1042	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	204.7811	202.3901	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	213.0262	210.4889	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	224.3560	221.6222	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	245.1171	242.0196	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	257.5193	254.2039	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	290.2572	286.3720	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	304.0503	299.9282	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	364.4446	358.1182	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	398.4801	391.5810	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	1,000	1031.9530	1055.8086	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	429.6491	422.2364	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	471.6006	463.5196	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	935.6134	958.1311	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	925.4226	947.7927	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	500.7226	492.1927	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	515.6298	506.8664	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	530.7594	521.7692	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	577.4912	567.8128	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	626.1924	615.8223	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	665.3995	654.4871	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	671.0931	660.1054	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	676.8096	665.7429	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	682.5490	671.4072	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	717.9416	736.7320	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	706.1272	0.0000	0.0000	0.0000	100	0.00
Mar 2019	ZAUS	15.04 Put	77,255	802.1617	789.4396	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	839.7467	826.5634	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	852.4399	839.1062	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	858.8153	845.4086	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	639.2276	656.4220	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	897.5043	883.6500	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	904.0244	890.0901	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	983.7577	968.9408	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	547.8691	563.0201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	544.8739	559.9529	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	533.0590	547.8558	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	527.2545	541.9133	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	521.5178	536.0392	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	488.5144	502.1906	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	450.8625	463.4890	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	15.83 Call	135,043	446.0958	458.6053	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	432.1241	444.2911	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	407.7916	419.3452	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	381.0417	391.9063	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	349.0881	359.1028	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	335.1555	344.7884	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	300.9781	310.2345	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	297.7550	306.9133	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	245.8652	253.3854	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	244.5772	252.0543	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	238.2513	245.5220	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	230.9055	237.9365	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	229.7066	236.6969	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	228.5148	235.4674	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	213.6517	220.1086	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	206.1129	212.3163	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	186.2245	191.7490	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	147.5285	150.6910	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	129.0427	131.4309	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	8.9007	9.3116	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	27.1129	27.1529	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	71.6300	70.9730	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	106.3230	105.0232	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	109.8049	108.4393	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	157.7961	155.5080	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	322.8189	318.7454	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	6,250	339.5100	335.1933	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	1488.5533	1514.9448	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	1229.2030	1251.6825	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	1148.9707	1170.4210	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	660.8974	650.8235	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	1038.5081	1058.4042	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	763.8032	779.7415	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	6,250	741.7812	757.3382	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	688.3618	702.9638	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	655.4009	669.2287	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	634.5525	647.9638	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	297.4214	303.5268	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	15.1905	15.5997	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	53.6151	50.9595	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	424.4649	417.8345	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	446.4244	439.4043	0.0000	0.0000	0	0.00

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Sep 2019	ZAUS	14.09 Put	33,715	492.3188	484.4975	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	512.2104	504.0502	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	540.8262	532.1784	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	591.9381	582.4422	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	781.1717	769.1066	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1171.3084	1155.6041	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.55 Call	30,000	1006.0026	1022.1968	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1287.0460	1270.3918	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	902.0139	916.5831	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	582.6477	592.1347	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	513.9058	522.3588	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	482.7872	490.7626	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	471.5929	479.3956	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	425.3336	432.4165	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	407.4521	414.2006	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	393.8640	400.3362	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	390.6087	397.0133	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	344.4955	349.9376	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	44.0462	45.3454	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	381.0972	370.6890	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	748.5708	760.1345	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	450.2032	454.7396	0.0000	0.0000	0	0.00		
			<u>8,265,223</u>					<u>300.00</u>	<u>0.00</u>	<u>60 687 622.00</u>	<u>0.00</u>
	Total		9,231,056					51,173.00	751,144,996.20	248 427 787.00	2 248 717 829 685.10
	Grand Total		10,988,711					53,932.00	807 750 100.60	338,911,257	3,118,885,880,367.62