



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 27-July-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Oct 2018	CC01	Future	25,000	325.0461	346.2748	0.0000	0.0000	0	0.00
			<u>25,000</u>					<u>0.00</u>	<u>0.00</u>
		Total	25,000					0.00	0.00
									25 000.00
									7 830 750.00
Future									
Jul 2018	DAEU	Future	33	15.3483	15.4233	0.0000	0.0000	0	0.00
Sep 2018	DAEU	Future	34	15.4637	15.5420	0.0000	0.0000	0	0.00
			<u>67</u>					<u>0.00</u>	<u>0.00</u>
		Total	67					0.00	0.00
									801 227.00
									11 964 244 481.80
Future									
Sep 2018	DAGB	Future	14	17.4594	17.5649	0.0000	0.0000	0	0.00
			<u>14</u>					<u>0.00</u>	<u>0.00</u>
		Total	14					0.00	0.00
									53 769.00
									882 198 966.30
Future									
Jul 2018	DAUS	Future	0	13.1965	13.2315	0.0000	0.0000	20,561	271,357,900.00
Jul 2018	DAUS	Future	1,762	13.1698	13.2280	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	55	13.1716	13.2315	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	420	13.1785	13.2385	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	70	13.1906	13.2505	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	4,144	13.1940	13.2539	0.0000	0.0000	2,000	26,412,600.00
Aug 2018	DAUS	Future	600	13.2025	13.2625	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	3,299	13.2214	13.2813	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	197	13.2266	13.2866	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	5,532	13.2696	13.3299	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	55	13.2765	13.3368	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	235	13.3020	13.3512	0.0000	0.0000	235	3,137,532.00
Oct 2018	DAUS	Future	70	13.3156	13.3761	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	225	13.3224	13.3830	0.0000	0.0000	0	0.00

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Oct 2018	DAUS	Future	3,608	13.3259	13.3864	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	55	13.3275	13.3881	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	13.3478	13.4084	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	420	13.3529	13.4135	0.0000	0.0000	280	3,754,660.00		
Nov 2018	DAUS	Future	461	13.3749	13.4665	0.0000	0.0000	461	6,208,056.50		
Nov 2018	DAUS	Future	3,363	13.3766	13.4373	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	2,078	13.4290	13.4898	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.4324	13.4932	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.4797	13.5407	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,225	13.4814	13.5424	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.5032	13.5644	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	4,725	13.5283	13.5897	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,414	13.5735	13.6353	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	13.5835	13.6454	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	13.6304	13.6927	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	13.6823	13.7448	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	29,000	13.6873	13.7499	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	13.7342	13.7970	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	13.7862	13.8494	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	13.8442	13.9076	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	13.8985	13.9622	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	13.9511	14.0150	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.0091	14.0732	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.0652	14.1296	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.1178	14.1824	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.1740	14.2388	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.2301	14.2952	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.2791	14.3443	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.3407	14.4062	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.4422	14.5081	0.0000	0.0000	0	0.00		
			<u>153,313</u>					<u>23,537.00</u>	<u>310,870,748.50</u>	<u>10 487 881.00</u>	<u>127 867 287 827.90</u>
Option											
Jul 2018	DAUS	13.00 Put	500	19.5084	26.8495	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.50 Call	500	7.3980	20.8830	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.80 Put	1,000	631.3696	575.8440	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.82 Call	500	0.0115	0.0120	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	16.32 Call	500	0.0458	0.0553	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	12.32 Put	1,880	1.6142	1.5728	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.86 Put	1,880	687.2422	631.7892	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.18 Call	1,880	0.0414	0.0434	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.18 Put	350	169.6900	144.8294	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.22 Call	350	165.5639	198.0813	0.0000	0.0000	0	0.00		

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Aug 2018	DAUS	13.43 Put	106	329.9160	291.8477	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.55 Call	106	66.6160	83.6582	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.21 Put	50,000	212.5836	187.5433	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.23 Put	35,000	235.6446	0.0000	0.0000	0.0000	35,000	0.00
Aug 2018	DAUS	15.10 Put	0	1887.1317	0.0000	0.0000	0.0000	1,950	0.00
Aug 2018	DAUS	13.00 Put	500	139.9221	122.5690	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.65 Call	500	105.4148	123.4271	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.80 Put	1,000	656.5831	611.0926	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.05 Call	500	0.7683	0.8269	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.57 Call	500	0.8464	0.8837	0.0000	0.0000	0	0.00
Sep 2018	DAUS	12.90 Put	100	120.9649	105.4308	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.09 Put	600	194.1098	172.2461	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.32 Call	600	228.0454	256.5489	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.45 Call	100	182.4694	206.8092	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Call	100	98.0831	113.3413	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.90 Call	600	81.9098	95.1595	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.30 Put	747	314.9875	283.9685	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.00 Put	500	198.6736	178.2091	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.78 Call	500	162.1606	179.4943	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Put	1,000	688.1103	644.7426	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.25 Call	500	4.4328	5.3095	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.80 Call	500	2.5415	2.7682	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.51 Call	5,000	279.6205	303.9468	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	327.7121	301.0557	0.0000	0.0000	1,630	0.00
Oct 2018	DAUS	14.00 Call	1,630	176.0559	191.6000	0.0000	0.0000	1,630	0.00
Oct 2018	DAUS	13.00 Put	500	249.9079	228.1138	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	720.2977	679.3919	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	214.0984	231.4674	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	11.9960	13.6869	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	5.1644	5.6600	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	25.3065	23.2309	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	768.6896	726.7824	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	8.0122	8.9366	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	5.5364	5.2660	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	20.8976	19.3623	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	505.5794	538.7750	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	285.8457	263.1971	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	745.9754	705.8736	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	250.5134	266.7979	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	25.6029	27.9114	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	15.9981	17.6608	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	651.5704	614.4287	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	15.69 Call	20,000	70.1624	75.0140	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.20 Put	1,000	399.8242	372.5993	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.30 Put	1,000	451.1541	421.8251	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.66 Call	1,000	186.0608	196.8616	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.75 Call	1,000	173.4261	183.5071	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.00 Put	500	314.2921	291.1655	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.80 Put	1,000	765.5303	726.2581	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.22 Call	500	283.1875	298.6928	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	16.93 Call	500	39.9067	42.3899	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	17.58 Call	500	27.2773	29.8838	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	12.66 Put	263	205.9157	189.9743	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.00 Put	500	340.5921	318.2929	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.38 Call	500	309.9699	324.8683	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	13.00 Put	500	364.3490	340.9334	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	14.52 Call	500	335.6985	350.3826	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	13.00 Put	500	385.4982	361.9527	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	14.67 Call	500	358.9951	373.4114	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.00 Put	3,000	405.7418	382.1144	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.49 Call	2,500	790.7507	821.5035	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	14.84 Call	500	380.9853	395.1894	0.0000	0.0000	0	0.00		
May 2019	DAUS	13.00 Put	500	424.2404	402.2388	0.0000	0.0000	0	0.00		
May 2019	DAUS	15.01 Call	500	400.5861	414.4947	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	13.00 Put	500	440.5093	418.5057	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.17 Call	500	415.2296	429.1690	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.45 Put	39,250	661.3274	631.1444	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.44 Call	39,250	238.5592	246.8484	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	458.0220	436.5193	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	433.9165	448.5934	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	475.5527	453.8560	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	451.6494	466.1433	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	491.3264	469.2972	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	473.2617	487.6014	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	506.3897	484.2265	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	489.7681	503.9289	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	519.1757	496.7610	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	507.9158	522.1153	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	531.4247	508.9616	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	526.2633	540.3905	0.0000	0.0000	0	0.00		
			<u>419,062</u>					<u>40,210.00</u>	<u>0.00</u>	<u>19 425 577.00</u>	<u>0.00</u>
	Total		572,375					63,747.00	310,870,748.50	29 913 458.00	127 867 287 827.90

Option

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Aug 2018	DAYJ	8.07 Put	13,000	496.6259	616.1685	0.0000	0.0000	0	0.00	
Aug 2018	DAYJ	8.27 Call	13,000	2170.4984	2041.5896	0.0000	0.0000	0	0.00	
Aug 2018	DAYJ	8.35 Call	20,000	1655.5651	0.0000	0.0000	0.0000	40,000	0.00	
			<u>46,000</u>					<u>40,000.00</u>	<u>0.00</u>	<u>40 000.00</u>
		Total	46,000					40,000.00	0.00	40 000.00
Future										
Sep 2018	EUUS	Future	165	1.1694	1.1700	1.1681	1.1681	15	175,215.00	
			<u>165</u>					<u>15.00</u>	<u>175,215.00</u>	<u>729 509.00</u>
		Total	165					15.00	175,215.00	729 509.00
Future										
Sep 2018	GBUS	Future	8	1.3152	1.3171	0.0000	0.0000	0	0.00	
			<u>8</u>					<u>0.00</u>	<u>0.00</u>	<u>167 347.00</u>
		Total	8					0.00	0.00	167 347.00
Future										
Sep 2018	ZAAD	Future	12,322	9.8174	9.8364	0.0000	0.0000	0	0.00	
Dec 2018	ZAAD	Future	11,417	9.9336	9.9530	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	4,929	10.1835	10.2041	0.0000	0.0000	0	0.00	
			<u>28,668</u>					<u>0.00</u>	<u>0.00</u>	<u>3 685 079.00</u>
		Total	28,668					0.00	0.00	3 717 456.00
Future										
Dec 2018	ZACA	Future	595	10.2827	10.3102	0.0000	0.0000	0	0.00	
			<u>595</u>					<u>0.00</u>	<u>0.00</u>	<u>136 818.00</u>
		Total	595					0.00	0.00	136 818.00
Future										
Sep 2018	ZADK	Future	245	2.0829	2.0927	0.0000	0.0000	0	0.00	
Dec 2018	ZADK	Future	15	2.1221	2.1319	0.0000	0.0000	0	0.00	
			<u>260</u>					<u>0.00</u>	<u>0.00</u>	<u>11 835.00</u>
		Total	260					0.00	0.00	11 835.00
Future										
Sep 2018	ZAEU	Future	133,303	15.4950	15.5735	15.5308	15.5000	325	5,044,295.30	
Dec 2018	ZAEU	Future	28,602	15.7787	15.8585	15.8431	15.8431	42	665,410.20	
Mar 2019	ZAEU	Future	4,808	16.0957	16.1768	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	Future	5,256	16.3996	16.4814	0.0000	0.0000	0	0.00	
			<u>171,969</u>					<u>367.00</u>	<u>5,709,705.50</u>	<u>15 083 655.00</u>
		Total	171,969					367.00	5,709,705.50	15 083 655.00
Option										

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Sep 2018	ZAEU	13.50 Put	29,734	3.7596	3.4948	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	14.25 Put	57,090	19.1282	16.5847	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	15.85 Put	86,824	549.4229	499.0262	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	16.76 Call	29,734	48.5743	57.3920	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	19.56 Call	86,824	2.5026	2.6952	0.0000	0.0000	0	0.00	
			290,206					0.00	0.00	8 023 712.00
		Total	462,175					367.00	5,709,705.50	23 107 367.00 215 498 093 872.40
Future										
Sep 2018	ZAFR	Future	1,575	13.3804	13.4494	0.0000	0.0000	0	0.00	
Dec 2018	ZAFR	Future	400	13.6378	13.7081	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	14.2035	14.2755	0.0000	0.0000	0	0.00	
			2,125					0.00	0.00	614 653.00 6 579 733 890.30
		Total	2,125					0.00	0.00	614 653.00 6 579 733 890.30
Future										
Sep 2018	ZAGB	Future	226,550	17.4267	17.5320	17.4200	17.4000	1,004	17,551,256.50	
Dec 2018	ZAGB	Future	11,544	17.6930	17.7994	17.7750	17.7513	1,002	17,786,850.00	
Mar 2019	ZAGB	Future	4,932	17.9851	18.0929	0.0000	0.0000	0	0.00	
Jun 2019	ZAGB	Future	6,156	18.2599	18.3689	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	895	18.5680	18.6781	0.0000	0.0000	0	0.00	
			250,077					2,006.00	35,338,106.50	11 928 262.00 200 838 959 414.80
		Total	250,077					2,006.00	35,338,106.50	13 702 375.00 200 838 959 414.80
Future										
Sep 2018	ZAJY	Future	115	0.1198	0.1202	0.0000	0.0000	0	0.00	
			115					0.00	0.00	993 919.00 11 089 418 491.40
		Total	115					0.00	0.00	993 919.00 11 089 418 491.40
Future										
Sep 2018	ZAKS	Future	562	0.1309	0.1313	0.0000	0.0000	0	0.00	
Jun 2019	ZAKS	Future	1,093	0.1293	0.1299	0.0000	0.0000	0	0.00	
			1,655					0.00	0.00	35 358.00 476 333 960.00
		Total	1,655					0.00	0.00	35 358.00 476 333 960.00
Future										
Sep 2018	ZATR	Future	1,500	2.6795	2.6970	0.0000	0.0000	0	0.00	
			1,500					0.00	0.00	305 729.00 1 053 112 090.00
		Total	1,500					0.00	0.00	305 729.00 1 053 112 090.00

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>	
Sep 2018	ZAUM	Future	345	13.2507	13.3108	0.0000	0.0000	0	0.00	
Dec 2018	ZAUM	Future	20	13.4003	13.4610	0.0000	0.0000	0	0.00	
Mar 2019	ZAUM	Future	5	13.5584	13.6201	0.0000	0.0000	0	0.00	
			370					0.00	0.00	152 056.00
		Total	370					0.00	0.00	156 579.00
										175 430 935 620.00
Future										
Sep 2018	ZAUS	Future	441,374	13.2507	13.3108	13.3615	13.2231	16,263	216,483,393.00	
Dec 2018	ZAUS	Future	66,738	13.4003	13.4610	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	Future	7,820	13.5584	13.6201	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	Future	15,910	13.7057	13.7684	0.0000	0.0000	0	0.00	
			531,842					16,263.00	216,483,393.00	179 312 405.00
										2 124 252 830 836.50
Option										
Sep 2018	ZAUS	11.48 Put	5,200	2.4046	2.4950	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	11.50 Put	45,000	2.5052	2.5979	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	11.60 Put	2,000	3.0811	3.1847	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	11.75 Put	93,314	4.2306	4.3474	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	11.85 Put	48,200	5.2514	5.3719	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	11.90 Put	3,000	5.8594	5.9790	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.00 Put	13,300	8.0059	7.9936	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.25 Call	500	1021.0196	1079.6242	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.25 Put	40,000	20.3196	18.8242	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.30 Put	100	24.1143	22.0961	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.38 Put	60,000	31.3979	28.3401	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.50 Call	4,600	796.3134	851.2617	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.50 Put	44,000	45.6134	40.4617	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.58 Put	8,000	57.6680	50.7254	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.61 Put	13,231	62.9759	55.0866	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.65 Put	1,550	71.1202	61.3798	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.77 Call	5,200	580.7770	628.0807	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.80 Call	50	559.1372	605.6111	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.80 Put	500	108.4372	94.8111	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.85 Put	750	123.4136	108.3567	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.00 Call	7,500	427.1598	467.5945	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.00 Put	72,000	176.4598	156.7945	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.10 Put	2,500	218.7879	195.8673	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.20 Call	4,000	317.4292	351.2864	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.20 Put	4,000	266.7292	240.4864	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.22 Put	26,000	276.9855	250.0769	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.25 Call	1,250	293.4828	325.6763	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.25 Put	74,064	292.7828	264.8763	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.30 Call	500	272.4478	301.4353	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	ZAUS	13.50 Call	2,000	200.9799	224.1268	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Call	26,000	172.0755	192.6174	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Put	4,000	521.3755	481.8174	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.65 Call	1,464	159.1298	178.4559	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Call	60,000	91.2298	103.7495	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Put	1,500	840.5298	792.9495	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.20 Call	500	65.9582	75.5546	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.70 Call	63,000	28.5025	33.8447	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.00 Call	4,000	15.5678	18.6976	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.97 Call	5,300	2.2324	2.5003	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.04 Call	1,550	2.1831	2.4361	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.14 Call	750	2.1208	2.3547	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.29 Call	73,314	2.0434	2.2522	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.64 Put	2,764	29.0788	27.0266	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	230,784	34.5526	32.0463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	43.5956	40.3319	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	50.8160	46.9422	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	52.3880	48.3820	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	61.2493	54.5821	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	75.8351	67.9447	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	84.0343	75.4871	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	108.3981	98.0018	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	230,784	1035.3761	1083.8066	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,500	135.0761	122.8066	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	168.8567	154.3973	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	183.2650	167.9245	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	204.7980	188.1883	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	7,000	700.9765	738.8230	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	175,030	300.6765	277.8230	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	345.2443	320.2215	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	593.6101	627.1219	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	403.3351	375.7188	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	568.9330	601.3735	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	27,800	418.6330	390.3735	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	529.1075	495.7937	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	230,784	459.6825	486.0932	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	26,300	559.3825	525.0932	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	687.9294	649.9618	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.71 Put	30	694.6541	656.5138	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	362.7751	384.1430	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Put	100	742.4751	703.1430	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	749.4114	709.9111	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 Call	3,264	356.6734	377.7091	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	314.0692	332.7386	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	16,130	301.0444	318.9718	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	269.8066	285.8826	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	228.3055	242.0413	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.38 Call	30	219.0349	232.2361	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	208.4400	221.0299	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	18,900	182.8257	193.9194	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	181.3432	192.3500	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	179.8764	190.7947	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	20,000	168.5917	178.8406	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	161.9352	171.7928	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	149.8620	159.5051	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	20,100	130.6809	139.1791	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	129.5700	138.0026	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	121.0508	128.9665	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	115.0525	122.6034	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	87.3197	93.1540	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	11,380	72.9407	77.8643	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	6.8523	6.5169	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	64.5033	59.0602	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.06 Put	4,145	107.2537	99.1191	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	195.2535	181.3705	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.45 Call	4,145	709.6153	739.9862	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	606.7868	575.2881	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	780.7831	744.2347	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	852.1665	814.0188	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	500	420.7610	438.3737	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	378.3711	394.0634	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	286.4275	298.7032	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	212.6396	221.8994	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	201.5053	210.2997	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	11.6303	10.4126	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	197.0161	183.0339	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	338.0225	319.6400	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	424.0370	402.3930	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	543.8707	516.6548	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	874.3224	838.4888	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	12,450	905.7235	869.2396	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	517.7302	535.7662	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	462.2120	478.0968	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.55 Call	25,000	326.1666	338.2116	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>	
Jun 2019	ZAUS	15.62 Call	12,450	315.4902	327.1270	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	15.80 Call	1,000	289.8503	300.4903	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	15.92 Call	911	274.1060	284.1287	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	10.75 Put	1,000	16.1060	16.5179	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	12.50 Put	1,000	306.7027	287.5846	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	15.87 Call	1,000	418.4902	431.3879	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	147.3177	155.1412	0.0000	0.0000	0	0.00	
			<u>2,737,291</u>					<i>0.00</i>	<i>0.00</i>	<i>51 241 032.00</i>
	Total		3,269,133					16,263.00	216,483,393.00	230 553 437.00
										<i>2 124 252 830 836.50</i>

Grand Total	4,660,302					122,398.00	568 577 168.50	315,401,214	2,962,655,972,537.72
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