



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 19-July-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
<b>Future</b>									
Oct 2018	CC01	Future	25,000	440.8647	277.5964	0.0000	0.0000	0	0.00
			<u>25,000</u>					<u>0.00</u>	<u>0.00</u>
		<b>Total</b>	<b>25,000</b>					<b>0.00</b>	<b>0.00</b>
									25 000.00 7 830 750.00
									25 000.00 7 830 750.00
<b>Future</b>									
Jul 2018	DAEU	Future	33	15.6875	15.4830	0.0000	0.0000	0	0.00
Sep 2018	DAEU	Future	34	15.8080	15.6023	0.0000	0.0000	0	0.00
			<u>67</u>					<u>0.00</u>	<u>0.00</u>
		<b>Total</b>	<b>67</b>					<b>0.00</b>	<b>0.00</b>
									801 227.00 11 964 244 481.80
									1 758 014.00 11 964 244 481.80
<b>Future</b>									
Jul 2018	DAUS	Future	1,800	13.4946	13.2702	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	500	13.4912	13.2741	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	20,570	13.4930	13.2763	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	1,204	13.4965	13.2807	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	3,262	13.5035	13.2876	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	55	13.5070	13.2910	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	70	13.5262	13.3100	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	5,070	13.5297	13.3135	0.0000	0.0000	1,000	13,447,700.00
Aug 2018	DAUS	Future	600	13.5385	13.3221	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	3,299	13.5577	13.3410	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	197	13.5630	13.3462	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	4,032	13.6068	13.3890	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	55	13.6138	13.3958	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	70	13.6541	13.4350	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	225	13.6611	13.4418	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	3,608	13.6646	13.4452	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	55	13.6663	13.4469	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	70	13.6872	13.4673	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	700	13.6924	13.4725	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	3,363	13.7167	13.4963	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	2,078	13.7706	13.5491	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.7740	13.5525	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.8226	13.6002	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,225	13.8244	13.6019	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.8469	13.6241	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	4,725	13.8729	13.6498	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,414	13.9197	13.6959	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	13.9301	13.7062	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	13.9788	13.7539	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.0332	13.8061	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	54,000	14.0385	13.8111	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.0877	13.8583	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.1430	13.9122	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.2020	13.9713	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.2573	14.0267	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.3108	14.0802	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.3699	14.1393	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.4271	14.1966	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.4805	14.2502	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.5377	14.3074	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.5949	14.3647	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.6447	14.4145	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.7074	14.4773	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.8132	14.5840	0.0000	0.0000	0	0.00		
			<u>202,477</u>					<u>1,000.00</u>	<u>13,447,700.00</u>	<u>10 409 787.00</u>	<u>126 817 735 999.30</u>
<b>Option</b>											
Jul 2018	DAUS	14.45 Put	1,500	959.2876	1176.2646	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.94 Call	1,500	0.0131	0.0152	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.25 Put	20,000	40.2224	111.0434	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.00 Put	500	16.5027	44.8467	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.50 Call	500	144.7513	70.8296	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.80 Put	1,000	346.6952	534.9518	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.82 Call	500	0.0676	0.0587	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	16.32 Call	500	0.0366	0.0816	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	12.32 Put	1,880	2.5882	3.6001	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.86 Put	1,880	417.4003	600.5830	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.18 Call	1,880	0.2627	0.2531	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.43 Put	106	168.7359	286.4044	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.55 Call	106	208.3494	131.3678	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.00 Put	500	70.9338	125.3370	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.65 Call	500	238.6417	164.4597	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>
Aug 2018	DAUS	13.80 Put	1,000	428.9648	586.6875	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.05 Call	500	2.3905	1.6465	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.57 Call	500	1.4687	1.5496	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.30 Put	747	186.4715	277.2593	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.00 Put	500	115.3088	176.1702	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.78 Call	500	291.1474	217.7569	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Put	1,000	477.2924	623.3717	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.25 Call	500	12.0514	8.5808	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.80 Call	500	6.0789	4.3512	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.51 Call	5,000	454.6074	349.9842	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	158.2546	223.9142	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	522.8347	660.8378	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	341.3227	269.0633	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	28.6728	19.3229	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	13.9988	8.0548	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	19.5670	25.2422	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	565.7964	707.1960	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	22.7728	15.2617	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	4.2732	5.4381	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	16.7541	20.7978	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	725.0157	590.5444	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	190.0318	258.1436	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	554.9566	687.9959	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	372.8299	302.9491	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	44.6188	36.7476	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	30.3018	24.8487	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	479.4531	599.3713	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	111.2172	90.3696	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	280.4929	365.3759	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	321.2444	413.3756	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	272.0365	224.7322	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	254.2120	210.0965	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	216.9854	286.8421	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	580.1134	709.0017	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	402.5275	333.9163	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	60.4025	51.8566	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	43.7441	37.9837	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	140.8810	189.2388	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	242.9027	313.2594	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	426.4757	360.2060	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	264.4105	334.7394	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	449.3051	384.8103	0.0000	0.0000	0	0.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Mar 2019	DAUS	13.00 Put	500	285.1533	354.8066	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	470.0678	407.0439	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	305.8871	375.0482	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	992.6223	869.3853	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	489.9701	427.2099	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	324.9511	394.6718	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	508.0118	445.7678	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	340.5119	410.6227	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	521.3255	459.5648	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	518.4480	617.7709	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	306.4862	267.8453	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	358.6301	429.0426	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	542.8567	480.9636	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	375.9338	445.9479	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	560.3618	498.0411	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	391.4039	460.9913	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	582.0328	519.5774	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	406.8229	475.3088	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	597.0876	535.8055	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	419.2636	487.4618	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	614.6154	553.6899	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	431.5027	499.2208	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	631.8799	571.7559	0.0000	0.0000	0	0.00
			<u>351,002</u>					0.00	0.00
									19 289 307.00
									0.00
			<b>Total</b>	<b>553,479</b>				<b>1,000.00</b>	<b>13,447,700.00</b>
									29 699 094.00
									126 817 735 999.30
<b>Future</b>									
Sep 2018	EUUS	Future	180	1.1658	1.1693	1.1658	1.1658	15	174,870.00
			<u>180</u>					15.00	174,870.00
									729 464.00
			<b>Total</b>	<b>180</b>				<b>15.00</b>	<b>174,870.00</b>
									729 464.00
									8 270 574 212.00
<b>Future</b>									
Sep 2018	GBUS	Future	4	1.3032	1.3079	1.3071	1.3071	2	26,142.00
			<u>4</u>					2.00	26,142.00
									167 343.00
			<b>Total</b>	<b>4</b>				<b>2.00</b>	<b>26,142.00</b>
									167 343.00
									2 152 845 196.00
<b>Future</b>									
Sep 2018	ZAAD	Future	12,322	9.9718	9.8649	0.0000	0.0000	0	0.00
Dec 2018	ZAAD	Future	11,416	10.0878	9.9787	0.0000	0.0000	0	0.00
Jun 2019	ZAAD	Future	4,929	10.3395	10.2268	0.0000	0.0000	0	0.00
			<u>28,667</u>					0.00	0.00
									3 685 066.00
									32 004 335 361.90

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<b>Total</b>			<b>28,667</b>					<b>0.00</b>	<b>0.00</b>	3 717 443.00	32 004 335 361.90
<b>Future</b>											
	Dec 2018	ZACA	Future	845	10.3953	10.2540	0.0000	0.0000	0	0.00	
				<u>845</u>					<u>0.00</u>	<u>0.00</u>	136 568.00
			<b>Total</b>	<b>845</b>					<b>0.00</b>	<b>0.00</b>	1 343 715 636.10
<b>Future</b>											
	Sep 2018	ZADK	Future	245	2.1283	2.0993	0.0000	0.0000	0	0.00	
	Dec 2018	ZADK	Future	15	2.1689	2.1384	0.0000	0.0000	0	0.00	
				<u>260</u>					<u>0.00</u>	<u>0.00</u>	11 835.00
			<b>Total</b>	<b>260</b>					<b>0.00</b>	<b>0.00</b>	254 651 919.00
<b>Future</b>											
	Sep 2018	ZAEU	Future	133,624	15.8399	15.6338	15.7945	15.6881	95	1,497,021.40	
	Dec 2018	ZAEU	Future	27,486	16.1303	15.9190	16.0892	16.0734	504	8,105,198.40	
	Mar 2019	ZAEU	Future	4,808	16.4555	16.2401	0.0000	0.0000	0	0.00	
	Jun 2019	ZAEU	Future	5,256	16.7673	16.5450	0.0000	0.0000	0	0.00	
				<u>171,174</u>					<u>599.00</u>	<u>9,602,219.80</u>	15 080 220.00
											215 443 528 176.60
<b>Option</b>											
	Sep 2018	ZAEU	13.50 Put	29,734	3.6680	4.2071	0.0000	0.0000	0	0.00	
	Sep 2018	ZAEU	14.25 Put	57,090	11.1806	15.9599	0.0000	0.0000	0	0.00	
	Sep 2018	ZAEU	15.85 Put	86,824	363.7027	483.8821	0.0000	0.0000	0	0.00	
	Sep 2018	ZAEU	16.76 Call	29,734	109.6225	80.5018	0.0000	0.0000	0	0.00	
	Sep 2018	ZAEU	19.56 Call	86,824	3.7814	3.5628	0.0000	0.0000	0	0.00	
				<u>290,206</u>					<u>0.00</u>	<u>0.00</u>	8 023 712.00
			<b>Total</b>	<b>461,380</b>					<b>599.00</b>	<b>9,602,219.80</b>	23 103 932.00
											215 443 528 176.60
<b>Future</b>											
	Sep 2018	ZAFR	Future	1,575	13.6322	13.4396	0.0000	0.0000	0	0.00	
	Dec 2018	ZAFR	Future	400	13.8965	13.6976	0.0000	0.0000	0	0.00	
	Jun 2019	ZAFR	Future	150	14.4739	14.2666	0.0000	0.0000	0	0.00	
				<u>2,125</u>					<u>0.00</u>	<u>0.00</u>	614 653.00
			<b>Total</b>	<b>2,125</b>					<b>0.00</b>	<b>0.00</b>	6 579 733 890.30
<b>Future</b>											
	Sep 2018	ZAGB	Future	226,564	17.7074	17.4867	17.6700	17.6000	10	176,350.00	
	Dec 2018	ZAGB	Future	9,525	17.9787	17.7534	17.9650	17.9650	3	53,895.00	
	Mar 2019	ZAGB	Future	4,932	18.2780	18.0490	0.0000	0.0000	0	0.00	
	Jun 2019	ZAGB	Future	6,156	18.5615	18.3271	0.0000	0.0000	0	0.00	
				<u>247,177</u>					<u>13.00</u>	<u>230,245.00</u>	11 922 373.00
											200 733 551 107.30

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<b>Total</b>			<b>247,177</b>					<b>13.00</b>	<b>230,245.00</b>	13 696 486.00	200 733 551 107.30
<b>Future</b>											
Sep 2018	ZAJY	Future	115	0.1208	0.1190	0.0000	0.0000	0	0.00		
			<u>115</u>					<u>0.00</u>	<u>0.00</u>	993 919.00	11 089 418 491.40
<b>Total</b>			<b>115</b>					<b>0.00</b>	<b>0.00</b>	993 919.00	11 089 418 491.40
<b>Future</b>											
Sep 2018	ZAKS	Future	562	0.1337	0.1316	0.0000	0.0000	0	0.00		
Jun 2019	ZAKS	Future	1,093	0.1320	0.1300	0.0000	0.0000	0	0.00		
			<u>1,655</u>					<u>0.00</u>	<u>0.00</u>	35 358.00	476 333 960.00
<b>Total</b>			<b>1,655</b>					<b>0.00</b>	<b>0.00</b>	35 358.00	476 333 960.00
<b>Future</b>											
Sep 2018	ZATR	Future	12,975	2.7501	2.7105	0.0000	0.0000	0	0.00		
			<u>12,975</u>					<u>0.00</u>	<u>0.00</u>	292 954.00	1 018 927 467.50
<b>Total</b>			<b>12,975</b>					<b>0.00</b>	<b>0.00</b>	292 954.00	1 018 927 467.50
<b>Future</b>											
Sep 2018	ZAUM	Future	335	13.5875	13.3703	13.4815	13.4815	5	6,740,750.00		
Dec 2018	ZAUM	Future	15	13.7410	13.5201	0.0000	0.0000	0	0.00		
Mar 2019	ZAUM	Future	5	13.9041	13.6806	0.0000	0.0000	0	0.00		
			<u>355</u>					<u>5.00</u>	<u>6,740,750.00</u>	152 021.00	175 383 706 370.00
<b>Total</b>			<b>355</b>					<b>5.00</b>	<b>6,740,750.00</b>	156 544.00	175 383 706 370.00
<b>Future</b>											
Sep 2018	ZAUS	Future	475,819	13.5875	13.3703	13.6013	13.4215	43,863	592,562,924.50		
Dec 2018	ZAUS	Future	60,966	13.7410	13.5201	13.7240	13.6779	722	9,883,303.90		
Mar 2019	ZAUS	Future	5,900	13.9041	13.6806	13.8675	13.8675	4	55,470.00		
Jun 2019	ZAUS	Future	15,910	14.0578	13.8297	0.0000	0.0000	0	0.00		
			<u>558,595</u>					<u>44,589.00</u>	<u>602,501,698.40</u>	178 910 029.00	2 118 829 463 920.70
<b>Option</b>											
Sep 2018	ZAUS	11.48 Put	5,200	2.6749	3.1787	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.50 Put	45,000	2.7552	3.2788	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.60 Put	2,000	3.1989	3.8369	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.75 Put	93,314	4.0246	4.8915	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.85 Put	48,200	4.7096	5.7812	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.90 Put	3,000	5.1015	6.2957	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.00 Put	13,300	6.0030	7.4928	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.25 Call	500	1346.6946	1139.1247	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.25 Put	40,000	9.1946	18.8247	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	12.30 Put	100	11.1495	22.2913	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.38 Put	60,000	14.9988	28.9207	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.50 Call	4,600	1110.2933	912.0887	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.50 Put	44,000	22.7933	41.7887	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.58 Put	8,000	29.6266	52.6476	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.61 Put	13,231	32.5786	57.2475	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.65 Put	1,550	36.8760	63.8595	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.77 Call	5,200	870.0093	688.7749	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.80 Call	50	844.6232	666.1017	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.85 Put	3,750	65.4961	108.9381	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Call	7,500	684.9170	525.9106	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Put	77,000	97.4170	155.6106	0.0000	0.0000	1,000	0.00
Sep 2018	ZAUS	13.10 Put	2,500	124.4979	193.0385	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Call	4,000	543.8025	405.9415	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Put	4,000	156.3025	235.6415	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.22 Put	26,000	163.2482	244.7852	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Call	1,250	511.5411	379.1890	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Put	74,064	174.0411	258.8890	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.50 Call	2,000	369.1160	269.0155	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Call	26,000	320.9377	234.4237	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Put	4,000	333.4377	464.1237	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.65 Call	1,464	300.2180	218.7116	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Call	60,000	185.7281	133.7935	0.0000	0.0000	3,000	0.00
Sep 2018	ZAUS	14.00 Put	1,500	598.2281	763.4935	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.70 Call	63,000	68.5510	49.0680	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.00 Call	4,000	44.2087	29.5028	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.97 Call	5,300	8.4242	5.3680	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.04 Call	1,550	7.4591	4.9384	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.14 Call	750	6.2684	4.5913	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.29 Call	73,314	4.8296	4.1438	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.64 Put	2,764	21.8992	27.8910	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	230,784	26.1518	33.3082	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	33.1790	42.2543	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	38.7845	49.3856	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	40.0043	50.9382	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	45.2412	57.5959	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	52.6630	69.0223	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	56.7718	76.4530	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	68.8485	98.5581	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	230,784	1327.4847	1142.9005	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,500	86.4847	122.8005	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	110.3399	153.5675	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	12.68 Put	10,000	120.6711	166.7158	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	136.2739	186.3883	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	7,000	944.4921	792.7352	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	175,030	203.4921	272.6352	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	236.6257	313.9326	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	814.9888	678.7365	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	281.8630	367.9804	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	784.9252	652.3504	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	22,800	293.9252	382.2504	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	381.9994	484.9323	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	230,784	647.0779	532.6996	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	26,300	406.0779	512.5996	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	510.3686	634.1221	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.71 Put	30	515.9104	640.5031	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	517.0616	426.0419	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Put	100	556.0616	685.9419	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	562.0147	692.5416	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	508.9974	419.2678	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	452.1825	371.7499	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	16,130	434.6329	357.1386	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	392.0486	321.8219	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	334.4892	274.5900	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.38 Call	30	321.4880	263.9983	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	306.5650	251.8606	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	18,900	270.4610	222.3581	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	268.3606	220.6465	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	266.2776	218.9465	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	20,000	250.2203	205.8622	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	240.7174	198.1262	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	224.5807	185.0084	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	15,100	198.7425	162.5709	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	197.2405	161.2626	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	185.6668	151.1830	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	177.4843	144.0647	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	136.3495	110.8439	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	11,380	114.6650	93.3917	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	5.4154	5.8447	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	43.1228	57.6970	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.06 Put	4,145	74.3723	98.8839	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	137.1626	180.4125	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.45 Call	4,145	911.8004	788.8535	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	462.4351	563.5654	0.0000	0.0000	0	0.00



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Mar 2019	ZAUS	13.75 Put	17,981	610.8953	728.6415	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.86 Put	721	672.6673	797.0861	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.30 Call	500	553.9283	476.5945	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.48 Call	1,000	498.7649	429.5291	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	14.96 Call	17,981	380.4057	328.7966	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	15.45 Call	20,000	289.9165	247.5943	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	15.54 Call	721	275.2497	235.0086	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	10.69 Put	1,000	9.6016	9.8645	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	12.28 Put	1,000	132.4087	176.2074	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	12.75 Put	1,000	254.7941	314.1290	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	12.98 Put	911	325.8114	395.4528	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.24 Put	30,000	419.8467	504.5229	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.83 Put	25,000	704.3636	821.3116	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.88 Put	12,450	732.2857	851.5396	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	651.2038	571.7678	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	581.8860	511.6013	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.55 Call	25,000	418.7788	365.8780	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	12,450	405.4666	354.1176	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	373.3908	325.8143	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	353.6230	308.3914	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	17.5599	19.0169	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	214.6004	279.2312	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	518.6072	461.3735	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	196.5904	168.4735	0.0000	0.0000	0	0.00		
			<u>2,733,791</u>					<u>4,000.00</u>	<u>0.00</u>	<u>51 221 532.00</u>	<u>0.00</u>
	<b>Total</b>		<b>3,292,386</b>					<b>48,589.00</b>	<b>602,501,698.40</b>	<b>230 131 561.00</b>	<b>2 118 829 463 920.70</b>
	<b>Grand Total</b>		<b>4,626,670</b>					<b>50,223.00</b>	<b>632 723 625.20</b>	<b>313,926,201</b>	<b>2,955,938,137,631.52</b>