



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 12-July-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
<b>Future</b>									
Jul 2018	DAEU	Future	34	15.5705	15.7487	0.0000	0.0000	0	0.00
Jul 2018	DAEU	Future	33	15.6078	15.7961	0.0000	0.0000	0	0.00
			<u>67</u>					<u>0.00</u>	<u>0.00</u>
									<u>791 057.00</u>
									<u>11 807 017 135.60</u>
<b>Option</b>									
Jul 2018	DAEU	15.63 Put	10,000	147.4509	62.3675	0.0000	0.0000	0	0.00
			<u>10,000</u>					<u>0.00</u>	<u>0.00</u>
									<u>956 787.00</u>
									<u>0.00</u>
		<b>Total</b>	<b>10,067</b>					<b>0.00</b>	<b>0.00</b>
									<b>1 747 844.00</b>
									<b>11 807 017 135.60</b>
<b>Future</b>									
Jul 2018	DAUS	Future	0	13.3788	13.4301	0.0000	0.0000	142	1,906,889.60
Jul 2018	DAUS	Future	34	13.3258	13.4337	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	1,800	13.3275	13.4407	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	500	13.3344	13.4477	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	20,570	13.3361	13.4494	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	1,204	13.3396	13.4529	0.0000	0.0000	284	3,821,447.20
Jul 2018	DAUS	Future	3,367	13.3464	13.4599	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	55	13.3498	13.4634	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	70	13.3687	13.4826	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	5,570	13.3721	13.4861	0.0000	0.0000	500	6,718,250.00
Aug 2018	DAUS	Future	600	13.3807	13.4949	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	3,404	13.3995	13.5141	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	197	13.4046	13.5194	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	4,137	13.4475	13.5632	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	55	13.4544	13.5702	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	70	13.4940	13.6105	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	225	13.5008	13.6175	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	3,608	13.5043	13.6210	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	55	13.5060	13.6227	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	70	13.5266	13.6437	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	700	13.5317	13.6490	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	13.5558	13.6735	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	2,078	13.6090	13.7277	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.6124	13.7312	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	13.6603	13.7800	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,225	13.6620	13.7817	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	13.6842	13.8043	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	4,725	13.7098	13.8303	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,414	13.7559	13.8772	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	13.7661	13.8876	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	13.8141	13.9364	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	13.8674	13.9907	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	54,000	13.8725	13.9959	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	13.9207	14.0449	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	13.9765	14.1015	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.0367	14.1621	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.0931	14.2189	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.1476	14.2738	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.2078	14.3343	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.2661	14.3930	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.3206	14.4479	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.3789	14.5066	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.4372	14.5652	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.4879	14.6163	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.5519	14.6807	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.6623	14.7922	0.0000	0.0000	0	0.00		
			<u>203,326</u>					<u>926.00</u>	<u>12,446,586.80</u>	<u>10 405 674.00</u>	<u>126 762 917 415.10</u>
<b>Option</b>											
Jul 2018	DAUS	14.45 Put	1,500	1118.5450	1006.7485	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.94 Call	1,500	0.0444	0.0676	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.25 Put	20,000	124.1038	84.2361	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.00 Put	500	52.3377	31.8023	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.50 Call	500	127.4630	170.5930	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.80 Put	1,000	511.1690	420.0685	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.82 Call	500	0.4581	0.4944	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	16.32 Call	500	0.2913	0.2830	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	12.32 Put	1,880	7.0316	5.8745	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.86 Put	1,880	576.6395	485.8153	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.18 Call	1,880	0.6720	0.5199	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.43 Put	106	285.4887	223.0610	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.55 Call	106	183.7515	224.8813	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.00 Put	500	132.7368	98.3314	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.65 Call	500	214.1086	249.9486	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	572.3543	486.5285	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.05 Call	500	3.2109	3.8505	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.57 Call	500	2.4947	2.4900	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.30 Put	747	280.7142	225.7202	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.00 Put	500	181.2684	143.3751	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.78 Call	500	265.9150	299.6121	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Put	1,000	612.4913	529.6864	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.25 Call	500	15.3649	17.7423	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.80 Call	500	7.2388	8.1805	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	225.1500	185.2852	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	649.4928	570.1285	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	314.1303	346.9351	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	30.3701	34.7272	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	16.3983	20.2718	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	28.8391	25.2411	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	694.6208	613.4971	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	25.2354	28.2149	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	5.9774	5.6717	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	23.9485	20.7170	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	648.4326	713.9241	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	258.5414	216.1931	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	676.4909	599.3211	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	345.9336	377.7706	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	48.0187	51.7978	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	33.5386	36.4835	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	590.4174	519.5874	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	110.6427	120.4372	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	362.2811	310.7128	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	409.3251	353.6621	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	259.1846	280.6670	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	243.2138	263.3402	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	285.0786	241.4417	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	697.6419	621.8916	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	375.7595	407.1365	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	63.8849	67.4977	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	47.2200	49.7106	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	310.8454	267.2914	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	401.2746	431.7640	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	331.8150	288.6681	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	424.7449	453.7174	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	352.8739	308.4303	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	445.9717	472.8342	0.0000	0.0000	0	0.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Apr 2019	DAUS	13.00 Put	3,000	373.3777	328.5301	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.49 Call	2,500	923.2129	981.0710	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	14.84 Call	500	466.1155	492.0599	0.0000	0.0000	0	0.00		
May 2019	DAUS	13.00 Put	500	392.4565	347.1966	0.0000	0.0000	0	0.00		
May 2019	DAUS	15.01 Call	500	484.1112	509.3451	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	13.00 Put	500	408.1088	362.5802	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.17 Call	500	497.6616	522.2519	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.45 Put	39,250	610.8788	547.1936	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.44 Call	39,250	295.5418	310.6054	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	426.3988	380.7170	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	520.9003	546.0114	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	443.0272	397.0705	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	538.8690	564.8591	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	457.1519	411.4958	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	560.3635	587.1181	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	471.0928	425.1458	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	576.5486	603.7468	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	482.8698	436.8848	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	594.7329	622.5501	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	494.2091	448.1445	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	613.2519	640.8835	0.0000	0.0000	0	0.00		
			<u>345,739</u>					<u>0.00</u>	<u>0.00</u>	<u>19 284 044.00</u>	<u>0.00</u>
<b>Total</b>			<b>549,065</b>					<b>926.00</b>	<b>12,446,586.80</b>	<b>29 689 718.00</b>	<b>126 762 917 415.10</b>
<b>Future</b>											
Sep 2018	EUUS	Future	155	1.1735	1.1777	1.1738	1.1738	10	117,380.00		
			<u>155</u>					<u>10.00</u>	<u>117,380.00</u>	<u>729 409.00</u>	<u>8 269 930 467.00</u>
<b>Total</b>			<b>155</b>					<b>10.00</b>	<b>117,380.00</b>	<b>729 409.00</b>	<b>8 269 930 467.00</b>
<b>Future</b>											
Sep 2018	ZAAD	Future	12,322	9.9401	10.0331	10.0358	10.0100	12	120,171.60		
Dec 2018	ZAAD	Future	11,412	10.0560	10.1509	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,929	10.3072	10.4075	0.0000	0.0000	0	0.00		
			<u>28,663</u>					<u>12.00</u>	<u>120,171.60</u>	<u>3 684 343.00</u>	<u>31 996 957 685.50</u>
<b>Total</b>			<b>28,663</b>					<b>12.00</b>	<b>120,171.60</b>	<b>3 716 720.00</b>	<b>31 996 957 685.50</b>
<b>Future</b>											
Dec 2018	ZACA	Future	500	10.3359	10.4673	0.0000	0.0000	0	0.00		
			<u>500</u>					<u>0.00</u>	<u>0.00</u>	<u>136 153.00</u>	<u>1 339 439 627.10</u>
<b>Total</b>			<b>500</b>					<b>0.00</b>	<b>0.00</b>	<b>136 153.00</b>	<b>1 339 439 627.10</b>

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<b>Future</b>											
Sep 2018	ZADK	Future	245	2.1154	2.1407	2.1305	2.1305	245	5,219,725.00		
Dec 2018	ZADK	Future	15	2.1550	2.1808	2.1732	2.1732	15	325,980.00		
			260					260.00	5,545,705.00	11 835.00	254 651 919.00
		<b>Total</b>	<b>260</b>					<b>260.00</b>	<b>5,545,705.00</b>	11 835.00	254 651 919.00
<b>Future</b>											
Sep 2018	ZAEU	Future	137,988	15.7585	15.9504	15.9433	15.7928	1,256	19,901,523.50		
Dec 2018	ZAEU	Future	24,482	16.0466	16.2437	16.3163	16.2558	932	15,106,483.10		
Mar 2019	ZAEU	Future	4,808	16.3704	16.5733	0.0000	0.0000	0	0.00		
Jun 2019	ZAEU	Future	5,256	16.6791	16.8869	0.0000	0.0000	0	0.00		
			172,534					2,188.00	35,008,006.60	15 051 567.00	214 992 513 625.40
<b>Option</b>											
Sep 2018	ZAEU	13.50 Put	29,734	4.9662	4.6064	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	14.25 Put	86,688	13.9790	11.7293	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	15.85 Put	86,824	445.1760	334.3803	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	16.76 Call	29,734	123.7501	152.8377	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	19.56 Call	86,824	5.9630	5.6894	0.0000	0.0000	0	0.00		
			319,804					0.00	0.00	7 964 516.00	0.00
		<b>Total</b>	<b>492,338</b>					<b>2,188.00</b>	<b>35,008,006.60</b>	23 016 083.00	214 992 513 625.40
<b>Future</b>											
Sep 2018	ZAFR	Future	1,575	13.4961	13.7149	0.0000	0.0000	0	0.00		
Dec 2018	ZAFR	Future	165	13.7558	13.9798	0.0000	0.0000	0	0.00		
			1,740					0.00	0.00	614 018.00	6 570 789 049.80
		<b>Total</b>	<b>1,740</b>					<b>0.00</b>	<b>0.00</b>	614 018.00	6 570 789 049.80
<b>Future</b>											
Sep 2018	ZAGB	Future	226,428	17.8044	17.9957	17.9900	17.8500	410	7,357,911.50		
Dec 2018	ZAGB	Future	7,437	18.0752	18.2721	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	Future	4,932	18.3747	18.5773	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	Future	6,156	18.6580	18.8639	0.0000	0.0000	387	7,286,745.60		
			244,953					797.00	14,644,657.10	11 917 998.00	200 654 806 181.30
		<b>Total</b>	<b>244,953</b>					<b>797.00</b>	<b>14,644,657.10</b>	13 692 111.00	200 654 806 181.30
<b>Future</b>											
Sep 2018	ZAJY	Future	115	0.1199	0.1222	0.0000	0.0000	0	0.00		
			115					0.00	0.00	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

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Sep 2018	ZAKS	Future	562	0.1321	0.1329	0.0000	0.0000	0	0.00		
Jun 2019	ZAKS	Future	1,093	0.1288	0.1302	0.0000	0.0000	0	0.00		
			<u>1,655</u>					<i>0.00</i>	<i>0.00</i>	<i>35 358.00</i>	<i>476 333 960.00</i>
	<b>Total</b>		<b>1,655</b>					<b>0.00</b>	<b>0.00</b>	<b>35 358.00</b>	<b>476 333 960.00</b>
<b>Future</b>											
Sep 2018	ZATR	Future	12,975	2.6977	2.7327	0.0000	0.0000	0	0.00		
			<u>12,975</u>					<i>0.00</i>	<i>0.00</i>	<i>292 954.00</i>	<i>1 018 927 467.50</i>
	<b>Total</b>		<b>12,975</b>					<b>0.00</b>	<b>0.00</b>	<b>292 954.00</b>	<b>1 018 927 467.50</b>
<b>Future</b>											
Sep 2018	ZAUM	Future	340	13.4285	13.5439	0.0000	0.0000	0	0.00		
Dec 2018	ZAUM	Future	15	13.5798	13.6980	0.0000	0.0000	0	0.00		
			<u>355</u>					<i>0.00</i>	<i>0.00</i>	<i>152 006.00</i>	<i>175 363 179 390.00</i>
	<b>Total</b>		<b>355</b>					<b>0.00</b>	<b>0.00</b>	<b>156 529.00</b>	<b>175 363 179 390.00</b>
<b>Future</b>											
Sep 2018	ZAUS	Future	512,504	13.4285	13.5439	13.6300	13.4381	61,447	833,124,795.50		
Dec 2018	ZAUS	Future	71,899	13.5798	13.6980	13.7435	13.6918	10	137,176.50		
Mar 2019	ZAUS	Future	5,932	13.7405	13.8616	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	Future	15,410	13.8914	14.0151	0.0000	0.0000	350	4,908,680.00		
			<u>605,745</u>					<i>61,807.00</i>	<i>838,170,652.00</i>	<i>178 661 198.00</i>	<i>2 115 495 341 003.50</i>
<b>Option</b>											
Sep 2018	ZAUS	11.48 Put	5,200	4.4251	3.6619	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.50 Put	45,000	4.5629	3.7586	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.60 Put	2,000	5.3265	4.2894	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.75 Put	93,314	6.7550	5.2596	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.85 Put	48,200	7.9455	6.0518	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.90 Put	3,000	8.6285	6.5007	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.00 Put	13,300	10.2023	7.5234	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.25 Call	500	1199.3967	1306.4126	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.25 Put	40,000	20.8967	12.5126	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.30 Put	100	24.7639	15.2312	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.38 Put	60,000	32.1186	20.5543	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.50 Call	4,600	974.7517	1075.0994	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.50 Put	34,000	46.2517	31.1994	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.58 Put	8,000	58.0451	40.3905	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.61 Put	13,231	63.0072	44.3239	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.65 Put	1,550	70.1099	50.0093	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.77 Call	5,200	753.4677	844.2519	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.80 Call	50	730.5626	820.1629	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	12.85 Put	3,750	115.3606	86.8957	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Call	30,000	590.6083	669.0425	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Put	73,000	162.1083	125.1425	0.0000	0.0000	14,308	0.00
Sep 2018	ZAUS	13.20 Call	4,000	469.5299	535.7596	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Put	4,000	241.0299	191.8596	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.22 Put	26,000	249.9798	199.5645	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Call	1,250	442.2612	505.3805	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Put	74,064	263.7612	211.4805	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.50 Call	2,000	324.6882	371.3487	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Call	26,000	287.3833	327.4222	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Put	4,000	458.8833	383.5222	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.65 Call	1,464	270.2547	307.8852	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Call	63,000	175.0124	198.6611	0.0000	0.0000	14,308	0.00
Sep 2018	ZAUS	14.00 Put	1,500	746.5124	654.7611	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.70 Call	63,000	71.9996	81.4561	0.0000	0.0000	14,308	0.00
Sep 2018	ZAUS	15.00 Call	4,000	48.1181	55.2551	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.97 Call	5,300	12.6283	14.9642	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.04 Call	1,550	11.4910	13.6575	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.14 Call	750	10.0496	11.9977	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.29 Call	73,314	8.3980	9.8909	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.64 Put	2,764	29.8853	26.1012	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	230,784	35.9010	30.9998	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	45.8259	39.0390	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	53.7178	45.4084	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	55.4322	46.7908	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	62.7756	52.7070	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	73.1351	61.0498	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	78.8652	65.6516	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	100.9579	80.4063	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	230,784	1204.8607	1299.0350	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,500	125.0607	101.0350	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	155.5048	127.4471	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	168.4748	138.8019	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	187.8528	155.8589	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	7,000	851.3722	926.4388	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	175,030	271.5722	228.4388	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	312.1512	264.8157	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	735.8281	802.4837	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	365.1944	312.8111	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	708.9886	773.5496	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	22,800	379.1886	325.5496	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	479.8070	417.9315	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	13.50 Call	230,784	586.7007	641.0203	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	26,300	506.9007	443.0203	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	624.0586	551.0604	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.71 Put	30	630.2838	556.9417	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	474.4354	516.9198	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Put	100	674.6354	598.9198	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	681.0763	605.0307	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	467.3471	509.1697	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	417.4365	454.5336	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	16,000	402.0233	437.6337	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	364.6111	396.5799	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	313.9808	340.9300	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.38 Call	30	302.5195	328.3299	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	289.3602	313.9635	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	18,900	257.2002	279.0005	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	255.3230	276.9617	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	253.4608	274.9393	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	20,000	239.1000	259.3283	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	230.5843	250.0723	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	216.0976	234.3267	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	16,600	192.2824	209.0222	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	190.8210	207.5476	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	179.5465	195.6937	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	171.5538	186.9539	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	133.9104	145.7909	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	1,000	131.9386	143.6322	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	11,380	113.8668	123.8726	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	6.2524	6.1060	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	57.1960	47.8729	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.06 Put	4,145	98.9463	82.7339	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	180.8181	152.2776	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.45 Call	4,145	842.2589	901.6176	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	556.9830	494.9121	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	719.0680	647.8401	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	786.1821	711.2152	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	500	520.0995	555.1691	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	470.5133	501.5784	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	363.7874	386.3508	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	278.5132	296.8038	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	264.9256	282.3765	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	10.1063	10.1060	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	173.8980	146.2263	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	12.75 Put	1,000	312.7260	274.0071	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	12.98 Put	911	393.2122	347.7598	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.24 Put	30,000	499.3536	444.8028	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.83 Put	25,000	811.5301	738.0788	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.88 Put	12,450	841.3097	766.5410	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	615.4280	648.9813	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	552.5833	581.5091	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.55 Call	25,000	400.2303	421.2038	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	12,450	387.8114	408.1481	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	357.8435	376.6624	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	339.3508	357.2346	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	21.0689	17.8529	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	274.4775	231.0577	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	499.6185	523.8892	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	192.6833	207.2312	0.0000	0.0000	0	0.00		
			<u>2,745,161</u>					<u>42,924.00</u>	<u>0.00</u>	<u>51 129 402.00</u>	<u>0.00</u>
	<b>Total</b>		<b>3,350,906</b>					<b>104,731.00</b>	<b>838,170,652.00</b>	<b>229 790 600.00</b>	<b>2 115 495 341 003.50</b>

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<b>Grand Total</b>	<b>4,693,747</b>	<b>108,924.00</b>	<b>906 053 159.10</b>	<b>313,446,371</b>	<b>2,951,810,175,136.82</b>
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