



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 02-July-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
<b>Future</b>									
Jul 2018	DAEU	Future	34	16.1486	16.0458	0.0000	0.0000	0	0.00
Jul 2018	DAEU	Future	33	16.1969	16.0962	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	37.0237	62.7150	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	13.8700	13.7152	0.0000	0.0000	2,100	29,127,000.00
Jul 2018	DAUS	Future	55	13.8783	13.7152	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	150	13.8767	13.7182	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	142	13.8872	13.7273	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	34	13.8942	13.7346	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	1,800	13.9012	13.7419	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	500	13.9083	13.7491	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	70	13.9100	13.7510	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	920	13.9136	13.7546	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	1,867	13.9206	13.7619	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	55	13.9241	13.7655	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	70	13.9439	13.7852	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	4,970	13.9476	13.7888	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	600	13.9567	13.7977	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	3,547	13.9767	13.8174	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	197	13.9822	13.8228	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	4,280	14.0283	13.8684	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	55	14.0357	13.8757	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	70	14.0778	13.9172	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	225	14.0851	13.9245	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	3,363	14.0888	13.9281	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	55	14.0906	13.9299	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.1125	13.9515	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	700	14.1180	13.9570	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	3,117	14.1436	13.9822	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	1,830	14.2002	14.0382	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.2039	14.0418	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	14.2548	14.0918	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,225	14.2566	14.0936	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.2803	14.1168	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	4,725	14.3076	14.1436	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,414	14.3567	14.1918	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.3676	14.2025	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.4194	14.2531	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.4769	14.3091	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	54,000	14.4825	14.3145	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.5345	14.3651	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.5760	14.4060	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.6163	14.4472	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.6542	14.4858	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.6908	14.5231	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.7312	14.5643	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.7703	14.6042	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.8069	14.6415	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.8460	14.6814	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.8851	14.7213	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.9192	14.7560	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.9621	14.7998	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.0654	14.9028	0.0000	0.0000	0	0.00		
			<u>180,336</u>					<u>2,100.00</u>	<u>29,127,000.00</u>	<u>10 296 977.00</u>	<u>125 298 744 777.30</u>
<b>Option</b>											
Jul 2018	DAUS	12.60 Put	100,000	0.0111	0.0534	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	12.07 Put	2,000	0.0000	0.0021	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.25 Put	20,000	4.4466	16.0530	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.60 Call	1,000	307.3012	201.6006	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.60 Put	20,000	30.6012	83.4006	0.0000	0.0000	20,000	0.00		
Jul 2018	DAUS	13.73 Call	1,000	204.6545	127.0058	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.75 Put	20,000	63.6210	0.0000	0.0000	0.0000	20,000	0.00		
Jul 2018	DAUS	14.45 Put	1,500	619.1263	761.9643	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.94 Call	1,500	2.6505	2.3757	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.50 Put	40,000	75.1544	132.4902	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.00 Put	500	20.0973	33.1427	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.50 Call	500	515.5897	413.8760	0.0000	0.0000	0	0.00		

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Jul 2018	DAUS	13.80 Put	1,000	205.9467	294.0479	0.0000	0.0000	0	0.00
Jul 2018	DAUS	15.82 Call	500	7.2098	5.7031	0.0000	0.0000	0	0.00
Jul 2018	DAUS	16.32 Call	500	2.4256	1.9043	0.0000	0.0000	0	0.00
Aug 2018	DAUS	12.32 Put	1,880	3.3808	5.0936	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.86 Put	1,880	257.5895	350.7162	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.18 Call	1,880	5.7559	4.4227	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.00 Put	500	48.3042	79.1372	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.65 Call	500	546.3259	463.5235	0.0000	0.0000	0	0.00
Aug 2018	DAUS	13.80 Put	1,000	285.6532	372.5611	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.05 Call	500	30.7298	27.1622	0.0000	0.0000	0	0.00
Aug 2018	DAUS	16.57 Call	500	16.1349	14.6942	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.30 Put	747	125.4477	177.5965	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.00 Put	500	81.6139	115.4673	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.78 Call	500	577.4281	500.6763	0.0000	0.0000	0	0.00
Sep 2018	DAUS	13.80 Put	1,000	338.6136	422.9348	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.25 Call	500	57.0168	51.3668	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.80 Call	500	34.9474	31.1340	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	113.4542	150.5717	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	384.8276	466.7585	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	608.8505	536.7926	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	85.4107	76.5972	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	58.0550	53.0996	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	19.3804	25.1004	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	419.7854	504.4504	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	71.6305	64.9081	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	4.0600	5.2088	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	14.8928	19.3795	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1080.5932	967.9027	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	139.8128	179.0489	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	419.2000	499.2667	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	628.8168	561.0046	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	107.0350	96.3907	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	76.0168	70.6569	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	361.2618	433.5746	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	230.6582	206.3984	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	209.5114	257.6209	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	239.7455	292.0813	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	473.2806	424.8078	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	446.8177	401.2907	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	163.3874	203.8568	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	447.0166	525.3201	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	652.1174	586.7641	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	16.93 Call	500	126.6876	115.5641	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	17.58 Call	500	94.4150	88.0158	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.00 Put	500	185.6557	227.2098	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.38 Call	500	669.0511	606.4259	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	13.00 Put	500	203.9929	246.5759	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	14.52 Call	500	685.0666	624.2353	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	13.00 Put	500	222.3295	265.5485	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	14.67 Call	500	699.7732	640.7249	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.00 Put	3,000	240.3476	284.0763	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.49 Call	2,500	1329.4006	1223.3471	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	14.84 Call	500	713.3664	655.9652	0.0000	0.0000	0	0.00		
May 2019	DAUS	13.00 Put	500	254.9490	301.4948	0.0000	0.0000	0	0.00		
May 2019	DAUS	15.01 Call	500	725.9161	669.6194	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	13.00 Put	500	265.1574	315.8926	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	15.17 Call	500	734.5868	679.9403	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.45 Put	39,250	420.8134	0.0000	0.0000	0.0000	39,250	0.00		
Jul 2019	DAUS	16.44 Call	39,250	454.7968	0.0000	0.0000	0.0000	39,250	0.00		
Jul 2019	DAUS	13.00 Put	500	285.6818	337.6757	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	749.8762	697.5210	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	302.3120	356.8327	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	756.2919	706.1258	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	317.2011	371.6557	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	768.7513	719.9742	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	333.1841	390.1145	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	774.7724	727.7366	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	347.8151	403.6270	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	784.4033	738.5376	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	364.4410	417.9984	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	793.4317	748.8524	0.0000	0.0000	0	0.00		
			<u>529,527</u>					<u>118,500.00</u>	<u>0.00</u>	<u>19 191 582.00</u>	<u>0.00</u>
<b>Total</b>			<b>709,863</b>					<b>120,600.00</b>	<b>29,127,000.00</b>	29 488 559.00	125 298 744 777.30
<b>Future</b>											
Sep 2018	EUUS	Future	260	1.1677	1.1739	1.1687	1.1682	2,763	32,394,060.00		
			<u>260</u>					<u>2,763.00</u>	<u>32,394,060.00</u>	<u>729 054.00</u>	<u>8 265 755 122.00</u>
<b>Total</b>			<b>260</b>					<b>2,763.00</b>	<b>32,394,060.00</b>	729 054.00	8 265 755 122.00
<b>Future</b>											
Sep 2018	ZAAD	Future	12,355	10.2802	10.2338	0.0000	0.0000	0	0.00		
Dec 2018	ZAAD	Future	11,412	10.4059	10.3580	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	4,929	10.6786	10.6255	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
			28,696					0.00	0.00	3 683 493.00	31 988 368 421.30
		<b>Total</b>	<b>28,696</b>					<b>0.00</b>	<b>0.00</b>	3 715 870.00	31 988 368 421.30
<b>Future</b>											
	Dec 2018 ZACA	Future	500	10.7672	10.6772	0.0000	0.0000	0	0.00		
			500					0.00	0.00	136 153.00	1 339 439 627.10
		<b>Total</b>	<b>500</b>					<b>0.00</b>	<b>0.00</b>	136 153.00	1 339 439 627.10
<b>Future</b>											
	Sep 2018 ZAEU	Future	135,180	16.3576	16.2567	16.3574	16.3078	560	9,133,733.10		
	Dec 2018 ZAEU	Future	19,006	16.6625	16.5604	16.6430	16.6430	500	8,321,500.00		
	Mar 2019 ZAEU	Future	4,808	17.0009	16.8960	0.0000	0.0000	0	0.00		
	Jun 2019 ZAEU	Future	5,256	17.3250	17.2167	0.0000	0.0000	0	0.00		
			164,250					1,060.00	17,455,233.10	15 023 613.00	214 537 692 565.20
<b>Option</b>											
	Sep 2018 ZAEU	13.50 Put	29,734	4.9481	6.0464	0.0000	0.0000	0	0.00		
	Sep 2018 ZAEU	14.25 Put	86,688	9.7674	13.3119	0.0000	0.0000	0	0.00		
	Sep 2018 ZAEU	15.85 Put	86,824	230.0872	273.8100	0.0000	0.0000	0	0.00		
	Sep 2018 ZAEU	16.76 Call	29,734	320.2192	296.3961	0.0000	0.0000	0	0.00		
	Sep 2018 ZAEU	19.56 Call	86,824	18.8855	19.0719	0.0000	0.0000	0	0.00		
			319,804					0.00	0.00	7 964 516.00	0.00
		<b>Total</b>	<b>484,054</b>					<b>1,060.00</b>	<b>17,455,233.10</b>	22 988 129.00	214 537 692 565.20
<b>Future</b>											
	Sep 2018 ZAFR	Future	1,215	14.1706	14.0396	0.0000	0.0000	0	0.00		
			1,215					0.00	0.00	612 948.00	6 555 963 200.80
		<b>Total</b>	<b>1,215</b>					<b>0.00</b>	<b>0.00</b>	612 948.00	6 555 963 200.80
<b>Future</b>											
	Sep 2018 ZAGB	Future	226,336	18.4597	18.3418	18.3957	18.3501	1,009	18,552,422.20		
	Dec 2018 ZAGB	Future	7,437	18.7485	18.6288	18.6752	18.6752	500	9,337,600.00		
	Mar 2019 ZAGB	Future	4,932	19.0634	18.9391	0.0000	0.0000	0	0.00		
	Jun 2019 ZAGB	Future	6,543	19.3641	19.2350	0.0000	0.0000	0	0.00		
			245,248					1,509.00	27,890,022.20	11 900 562.00	200 335 499 602.00
		<b>Total</b>	<b>245,248</b>					<b>1,509.00</b>	<b>27,890,022.20</b>	13 674 675.00	200 335 499 602.00
<b>Future</b>											
	Sep 2018 ZAJY	Future	115	0.1271	0.1257	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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<b>Future</b>											
Sep 2018	ZAKS	Future	562	0.1368	0.1355	0.0000	0.0000	0	0.00		
Jun 2019	ZAKS	Future	1,093	0.1353	0.1337	0.0000	0.0000	0	0.00		
			<u>1,655</u>					<u>0.00</u>	<u>0.00</u>	<u>35 358.00</u>	<u>476 333 960.00</u>
		<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	12,775	2.9374	2.9274	0.0000	0.0000	0	0.00		
			<u>12,775</u>					<u>0.00</u>	<u>0.00</u>	<u>292 754.00</u>	<u>1 018 368 407.50</u>
		<b>Total</b>	<b>12,775</b>					<b>0.00</b>	<b>0.00</b>	<b>292 754.00</b>	<b>1 018 368 407.50</b>
<b>Future</b>											
Sep 2018	ZAUM	Future	350	14.0080	13.8483	13.9445	13.9417	37	51,664,590.00		
Dec 2018	ZAUM	Future	15	14.1692	14.0075	14.1114	14.1114	5	7,055,700.00		
			<u>365</u>					<u>42.00</u>	<u>58,720,290.00</u>	<u>151 906.00</u>	<u>175 225 211 090.00</u>
		<b>Total</b>	<b>365</b>					<b>42.00</b>	<b>58,720,290.00</b>	<b>156 429.00</b>	<b>175 225 211 090.00</b>
<b>Future</b>											
Sep 2018	ZAUS	Future	538,715	14.0080	13.8483	14.0400	13.9310	111,774	1,558,148,542.00		
Dec 2018	ZAUS	Future	73,608	14.1692	14.0075	14.1999	14.0900	27	383,256.00		
Mar 2019	ZAUS	Future	5,932	14.3403	14.1757	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	Future	14,910	14.5029	14.3344	0.0000	0.0000	0	0.00		
			<u>633,165</u>					<u>111,801.00</u>	<u>1,558,531,798.00</u>	<u>178 174 956.00</u>	<u>2 108 842 286 678.80</u>
<b>Option</b>											
Sep 2018	ZAUS	11.48 Put	5,200	4.3742	5.7796	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.50 Put	45,000	4.5007	5.9538	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.60 Put	2,000	5.1928	6.9108	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.75 Put	93,314	6.4470	8.6560	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.85 Put	48,200	7.4573	10.0696	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.90 Put	3,000	8.0236	10.8645	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.00 Put	13,300	9.2975	12.6573	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.25 Call	500	1771.5166	1616.9326	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.25 Put	40,000	13.5166	18.6326	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.30 Put	100	14.5824	20.1489	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.38 Put	60,000	16.4782	22.8489	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.50 Call	4,600	1527.8320	1377.7833	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.50 Put	34,000	19.8320	29.4833	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.58 Put	8,000	22.4685	36.8027	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.61 Put	13,231	23.8954	39.8893	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.65 Put	1,550	26.9145	44.3130	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.77 Call	5,200	1275.8234	1138.1855	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.80 Call	50	1249.0265	1112.6597	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	46.8296	72.3674	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Call	30,000	1076.0532	949.1496	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Put	10,000	68.0532	100.8496	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Call	4,000	914.5824	799.4784	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Put	4,000	106.5824	151.1784	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.22 Put	26,000	111.1498	157.2625	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Call	1,250	876.2603	764.9828	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Put	74,064	118.2603	166.6828	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.50 Call	2,000	701.4297	607.5324	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Call	26,000	638.7771	551.6306	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Put	4,000	230.7771	303.3306	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.65 Call	1,464	608.9829	525.1833	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Put	1,500	420.6529	521.6748	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.00 Call	4,000	154.5735	135.0628	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.97 Call	5,300	56.7759	50.4443	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.04 Call	1,550	52.8340	47.0477	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.14 Call	750	47.7026	42.6188	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.29 Call	73,314	40.9887	36.8085	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.64 Put	2,764	17.7556	22.4019	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	230,784	21.4848	27.1219	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	27.6711	34.9287	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	32.6114	41.1438	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	33.6860	42.4943	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	38.2998	48.2806	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	44.8254	56.4398	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	48.4312	60.9386	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	58.9897	74.0609	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	230,784	1739.6135	1595.6820	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,500	70.4135	88.1820	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	84.8377	106.9819	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	91.0057	116.4331	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	100.2655	130.6447	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	7,000	1320.5134	1198.7975	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	190,030	151.3134	191.2975	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	176.0418	220.1254	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1172.5784	1059.1767	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	209.1676	258.3187	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1137.2498	1025.9907	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	7,800	218.0498	268.4907	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	283.6154	346.3590	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	230,784	972.0296	875.4670	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	26,300	302.8296	367.9670	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	13.70 Put	7,300	387.1084	461.7053	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	813.3067	729.9053	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Put	100	424.1067	502.4053	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	428.8643	507.6209	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	802.8469	720.3604	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	727.9969	652.2379	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	16,000	704.4386	630.8599	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	646.3457	579.2942	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	566.8170	507.9310	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	527.2964	472.5143	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	18,900	474.6685	425.4601	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	471.5611	422.6883	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	468.4745	419.9318	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	20,000	444.5180	398.5585	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	430.1874	385.9428	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	405.5936	364.3104	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	31,600	366.0568	329.0656	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	363.7293	326.9913	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	345.7006	310.9199	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	332.8281	299.4438	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	270.9779	243.3674	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	1,000	267.6718	240.1827	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	11,380	235.2048	210.6921	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	15,000	193.4758	173.5722	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	5.5302	6.1830	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	24.1034	33.4478	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.06 Put	4,145	47.9778	63.6235	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	100.4267	0.0000	0.0000	0.0000	721	0.00
Mar 2019	ZAUS	13.45 Call	4,145	1247.7440	1142.2648	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	361.1345	420.6211	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	481.0165	555.8111	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	533.7086	0.0000	0.0000	0.0000	721	0.00
Mar 2019	ZAUS	14.30 Call	500	812.4869	742.7886	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	741.7822	678.0183	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	582.5410	533.1569	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	459.0221	421.4133	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	439.8244	0.0000	0.0000	0.0000	721	0.00
Jun 2019	ZAUS	10.69 Put	1,000	9.9834	10.3982	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	81.7112	104.6251	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	184.5577	227.1884	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	254.9153	302.7208	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	337.8569	389.7834	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	13.83 Put	25,000	567.7976	644.0870	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.88 Put	12,450	592.0009	670.0141	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	14.58 Call	1,000	905.0619	835.8936	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	14.82 Call	30,000	817.6733	755.2349	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	15.55 Call	25,000	605.0167	560.7522	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	15.62 Call	12,450	588.3431	545.5027	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	15.80 Call	1,000	547.9286	508.5477	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	15.92 Call	911	522.8475	484.2427	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	10.75 Put	1,000	19.7107	21.0713	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	12.50 Put	1,000	160.8167	199.4021	0.0000	0.0000	0	0.00	
Sep 2019	ZAUS	15.87 Call	1,000	697.8281	653.4777	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	294.2624	273.0072	0.0000	0.0000	0	0.00	
			<u>2,586,101</u>					<u>2,163.00</u>	<u>0.00</u>	<u>50 695 350.00</u>
	<b>Total</b>		<b><u>3,219,266</u></b>					<b><u>113,964.00</u></b>	<b><u>1,558,531,798.00</u></b>	<b><u>228 870 306.00</u></b>
										<u>2 108 842 286 678.80</u>

<b>Grand Total</b>	<b><u>4,714,079</u></b>							<b><u>239,938.00</u></b>	<b><u>1 724 118 403.30</u></b>	<b><u>312,276,588</u></b>	<b><u>2,942,744,916,006.62</u></b>
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