



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 22-November-2017

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Nov 2017	DAEU	Future	800	16.3084	16.4635	0.0000	0.0000	0	0.00
Dec 2017	DAEU	Future	3	16.3278	16.4811	0.0000	0.0000	0	0.00
Dec 2017	DAEU	Future	800	16.4123	16.5630	0.0000	0.0000	0	0.00
Jan 2018	DAEU	Future	30	16.5504	16.7085	0.0000	0.0000	0	0.00
Mar 2018	DAEU	Future	63	16.7082	16.8725	0.0000	0.0000	0	0.00
Mar 2018	DAEU	Future	3	16.7600	16.9239	0.0000	0.0000	0	0.00
			<u>1,699</u>					<u>0.00</u>	<u>0.00</u>
									<u>247 904.00</u>
									<u>3 576 364 446.30</u>
Option									
Jan 2018	DAEU	15.80 Put	193,000	218.2076	177.6649	0.0000	0.0000	0	0.00
Feb 2018	DAEU	16.41 Put	114,748	484.2857	416.7305	0.0000	0.0000	0	0.00
			<u>307,748</u>					<u>0.00</u>	<u>0.00</u>
									<u>632 247.00</u>
									<u>0.00</u>
		Total	309,447					0.00	0.00
									880 151.00
									3 576 364 446.30
Future									
Dec 2017	DAGB	Future	10	18.4511	18.6448	0.0000	0.0000	2	37,045.00
Jan 2018	DAGB	Future	10	18.6300	18.8294	0.0000	0.0000	0	0.00
Mar 2018	DAGB	Future	17	18.7344	18.9405	0.0000	0.0000	0	0.00
Mar 2018	DAGB	Future	38	18.7845	18.9901	0.0000	0.0000	0	0.00
			<u>75</u>					<u>2.00</u>	<u>37,045.00</u>
									<u>53 555.00</u>
									<u>878 571 162.50</u>
Option									
Dec 2017	DAGB	19.19 Call	15,200	61.4352	89.3841	0.0000	0.0000	0	0.00
			<u>15,200</u>					<u>0.00</u>	<u>0.00</u>
									<u>207 313.00</u>
									<u>0.00</u>
		Total	15,275					2.00	37,045.00
									260 868.00
									878 571 162.50
Future									
Nov 2017	DAUS	Future	300	13.8436	14.0128	0.0000	0.0000	0	0.00
Nov 2017	DAUS	Future	2,190	13.8483	14.0214	0.0000	0.0000	0	0.00
Nov 2017	DAUS	Future	2,708	13.8529	14.0246	0.0000	0.0000	0	0.00
Dec 2017	DAUS	Future	24	13.8620	14.0335	0.0000	0.0000	0	0.00
Dec 2017	DAUS	Future	241	13.8849	14.0559	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 2017	DAUS	Future	1,781	13.8872	14.0581	0.0000	0.0000	0	0.00		
Dec 2017	DAUS	Future	916	13.9146	14.0849	0.0000	0.0000	0	0.00		
Dec 2017	DAUS	Future	500	13.9192	14.0898	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	677	13.9331	14.1043	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	500	13.9469	14.1188	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	241	13.9515	14.1237	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	300	13.9608	14.1334	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	241	13.9654	14.1382	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	70	13.9815	14.1553	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	1,923	13.9952	14.1701	0.0000	0.0000	0	0.00		
Feb 2018	DAUS	Future	70	14.0248	14.2023	0.0000	0.0000	0	0.00		
Feb 2018	DAUS	Future	500	14.0590	14.2382	0.0000	0.0000	0	0.00		
Mar 2018	DAUS	Future	189	14.0928	14.2716	0.0000	0.0000	0	0.00		
Mar 2018	DAUS	Future	699	14.1244	14.3028	0.0000	0.0000	0	0.00		
Apr 2018	DAUS	Future	70	14.1830	14.3607	0.0000	0.0000	0	0.00		
Apr 2018	DAUS	Future	110	14.1965	14.3740	0.0000	0.0000	0	0.00		
May 2018	DAUS	Future	70	14.2213	14.3985	0.0000	0.0000	0	0.00		
May 2018	DAUS	Future	181	14.2662	14.4434	0.0000	0.0000	0	0.00		
Jun 2018	DAUS	Future	445	14.3309	14.5093	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	Future	100	14.3376	14.5161	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	Future	1,800	14.3778	14.5570	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	Future	70	14.3890	14.5684	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	Future	1,853	14.4024	14.5820	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	Future	70	14.4314	14.6116	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	Future	1,336	14.4718	14.6530	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	Future	1,295	14.5352	14.7185	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.5964	14.7817	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.6055	14.7910	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.6394	14.8261	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.8607	15.0544	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	16.2585	16.4791	0.0000	0.0000	0	0.00		
			<u>105,905</u>					<u>0.00</u>	<u>0.00</u>	<u>6 888 780.00</u>	<u>83 481 556 259.40</u>
Option											
Nov 2017	DAUS	14.17 Call	10,000	3.2501	36.3119	0.0000	0.0000	0	0.00		
Nov 2017	DAUS	14.54 Call	300	11.3794	24.3802	0.0000	0.0000	0	0.00		
Nov 2017	DAUS	14.70 Call	50	7.2435	12.8463	0.0000	0.0000	0	0.00		
Nov 2017	DAUS	13.50 Put	60	52.2089	24.6817	0.0000	0.0000	0	0.00		
Nov 2017	DAUS	17.74 Call	60	0.3258	0.2307	0.0000	0.0000	0	0.00		
Nov 2017	DAUS	12.75 Put	238,000	4.7162	2.0222	0.0000	0.0000	0	0.00		
Dec 2017	DAUS	14.47 Call	30,000	48.5658	68.7419	0.0000	0.0000	0	0.00		
Dec 2017	DAUS	14.30 Call	100	84.6493	0.0000	0.0000	0.0000	100	0.00		
Dec 2017	DAUS	13.50 Put	60	201.2585	147.4533	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 2017	DAUS	18.02 Call	60	4.1673	4.5873	0.0000	0.0000	0	0.00
Dec 2017	DAUS	14.50 Call	150	194.7879	243.0572	0.0000	0.0000	0	0.00
Dec 2017	DAUS	14.80 Call	200	131.6690	166.2043	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.20 Put	2,000	131.7577	95.0665	0.0000	0.0000	0	0.00
Jan 2018	DAUS	14.76 Call	1,000	164.6094	203.7527	0.0000	0.0000	0	0.00
Jan 2018	DAUS	14.88 Call	1,000	142.3055	176.7808	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.90 Put	20,000	407.0898	325.2651	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.25 Put	107,000	169.8608	128.7407	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.27 Put	154,000	175.3025	133.1523	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.30 Put	40,904	183.6949	139.9750	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.40 Put	168,000	215.1635	164.5783	0.0000	0.0000	0	0.00
Feb 2018	DAUS	12.57 Put	242	50.1376	39.8734	0.0000	0.0000	0	0.00
Feb 2018	DAUS	13.04 Put	234	121.0983	89.9344	0.0000	0.0000	0	0.00
Feb 2018	DAUS	13.15 Put	3,496	145.8252	109.5971	0.0000	0.0000	0	0.00
Feb 2018	DAUS	15.22 Call	242	141.3787	171.3093	0.0000	0.0000	0	0.00
Feb 2018	DAUS	15.52 Call	2,723	103.1646	126.6467	0.0000	0.0000	0	0.00
Feb 2018	DAUS	15.79 Call	234	76.7039	94.9567	0.0000	0.0000	0	0.00
Feb 2018	DAUS	15.88 Call	773	69.4498	86.1603	0.0000	0.0000	0	0.00
Feb 2018	DAUS	13.80 Put	35,000	382.9074	307.4686	0.0000	0.0000	0	0.00
Feb 2018	DAUS	13.16 Put	1,880	156.1237	119.1213	0.0000	0.0000	0	0.00
Feb 2018	DAUS	13.86 Put	1,880	414.9055	336.0473	0.0000	0.0000	0	0.00
Feb 2018	DAUS	15.05 Call	1,880	185.8005	222.5983	0.0000	0.0000	0	0.00
Feb 2018	DAUS	13.90 Put	20,000	438.5751	357.5775	0.0000	0.0000	0	0.00
Feb 2018	DAUS	14.20 Put	20,000	612.2910	511.1686	0.0000	0.0000	0	0.00
Feb 2018	DAUS	14.18 Put	90,000	610.9894	513.1058	0.0000	0.0000	0	0.00
Mar 2018	DAUS	13.50 Put	100,000	284.1060	226.4509	0.0000	0.0000	0	0.00
Mar 2018	DAUS	13.40 Put	100,000	249.5330	198.8712	0.0000	0.0000	0	0.00
Apr 2018	DAUS	15.00 Put	1,000	1198.6843	1075.1419	0.0000	0.0000	0	0.00
Apr 2018	DAUS	15.81 Call	2,000	225.1332	260.4634	0.0000	0.0000	0	0.00
Apr 2018	DAUS	13.80 Put	1,000	461.8210	389.8386	0.0000	0.0000	0	0.00
Apr 2018	DAUS	15.23 Call	500	341.0425	388.8970	0.0000	0.0000	0	0.00
Apr 2018	DAUS	15.66 Call	500	258.9354	296.7827	0.0000	0.0000	0	0.00
May 2018	DAUS	12.74 Put	1,880	134.4031	110.5670	0.0000	0.0000	0	0.00
May 2018	DAUS	13.86 Put	1,880	496.6140	421.8197	0.0000	0.0000	0	0.00
May 2018	DAUS	15.63 Call	1,880	282.4226	321.8250	0.0000	0.0000	0	0.00
May 2018	DAUS	12.75 Put	11,000	139.4443	114.2332	0.0000	0.0000	0	0.00
May 2018	DAUS	14.50 Put	11,000	857.2518	755.0914	0.0000	0.0000	0	0.00
May 2018	DAUS	15.76 Call	11,000	269.3387	307.6844	0.0000	0.0000	0	0.00
May 2018	DAUS	13.80 Put	1,000	484.1381	412.4267	0.0000	0.0000	0	0.00
May 2018	DAUS	15.43 Call	500	367.7238	414.9663	0.0000	0.0000	0	0.00
May 2018	DAUS	15.89 Call	500	281.3917	320.7958	0.0000	0.0000	0	0.00
Jun 2018	DAUS	13.80 Put	1,000	505.0085	433.5718	0.0000	0.0000	0	0.00

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Jun 2018	DAUS	15.62 Call	500	393.5450	439.5597	0.0000	0.0000	0	0.00		
Jun 2018	DAUS	16.10 Call	500	304.7432	342.7601	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	14.19 Put	1,500	716.3957	629.9081	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	14.45 Put	1,500	864.6468	768.4868	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.72 Call	1,500	425.7541	472.2980	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.94 Call	1,500	381.6748	425.1401	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.80 Put	1,000	524.2326	453.5732	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.82 Call	500	420.1494	465.3668	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	16.32 Call	500	328.4784	366.0017	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	12.32 Put	1,880	98.3156	75.9073	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.86 Put	1,880	555.5282	482.6924	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.18 Call	1,880	364.3350	406.1408	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.80 Put	1,000	541.0726	473.1277	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.05 Call	500	436.2576	482.3079	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.57 Call	500	344.9655	382.1883	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	13.80 Put	1,000	554.4996	487.7471	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	16.25 Call	500	452.0678	497.5199	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	16.80 Call	500	358.8413	395.3693	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.80 Put	1,000	569.9170	503.6090	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	16.47 Call	500	472.5576	517.7365	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	17.02 Call	500	382.0041	418.3697	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	11.90 Put	1,880	56.3275	38.0359	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.86 Put	1,880	597.5673	529.0686	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.81 Call	1,880	422.1767	462.2148	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.80 Put	1,000	584.4045	517.9642	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	487.8641	532.5950	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	392.1361	428.0044	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.80 Put	1,000	600.1314	533.6766	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	16.93 Call	500	511.8634	556.5987	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	17.58 Call	500	413.1491	448.9629	0.0000	0.0000	0	0.00		
			<u>1,228,448</u>					<u>100.00</u>	<u>0.00</u>	<u>14 911 520.00</u>	<u>0.00</u>
		Total	1,334,353					100.00	0.00	21 800 300.00	83 481 556 259.40
Future											
Dec 2017	EUUS	Future	30	1.1789	1.1754	0.0000	0.0000	0	0.00		
			<u>30</u>					<u>0.00</u>	<u>0.00</u>	<u>649 030.00</u>	<u>7 292 373 935.00</u>
		Total	30					0.00	0.00	649 030.00	7 292 373 935.00
Future											
Dec 2017	ZAAD	Future	16,484	10.5323	10.6679	10.5650	10.5510	290	3,061,885.50		
Mar 2018	ZAAD	Future	1,650	10.6849	10.8259	0.0000	0.0000	0	0.00		
Jun 2018	ZAAD	Future	300	10.8377	10.9778	0.0000	0.0000	0	0.00		

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Dec 2018	ZAAD	Future	10,812	11.1405	11.2901	0.0000	0.0000	0	0.00		
			29,246					290.00	3,061,885.50	3 429 607.00	29 474 681 224.60
		Total	29,246					290.00	3,061,885.50	3 461 984.00	29 474 681 224.60
Future											
Dec 2017	ZACA	Future	1,000	10.8995	11.0245	0.0000	0.0000	0	0.00		
			1,000					0.00	0.00	121 953.00	1 198 148 597.10
		Total	1,000					0.00	0.00	121 953.00	1 198 148 597.10
Future											
Dec 2017	ZADK	Future	1,050	2.2040	2.2245	0.0000	0.0000	0	0.00		
			1,050					0.00	0.00	10 020.00	215 760 609.00
		Total	1,050					0.00	0.00	10 020.00	215 760 609.00
Future											
Dec 2017	ZAEU	Future	109,339	16.3792	16.5311	16.4000	16.4000	1,593	26,155,754.40		
Mar 2018	ZAEU	Future	22,943	16.7228	16.8871	16.8401	16.7441	828	13,913,850.30		
Jun 2018	ZAEU	Future	546	17.0665	17.2276	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	Future	4,679	17.4189	17.5863	0.0000	0.0000	0	0.00		
			137,507					2,421.00	40,069,604.70	12 789 268.00	180 225 714 832.80
Option											
Dec 2017	ZAEU	14.00 Put	18,000	5.7416	4.5316	0.0000	0.0000	0	0.00		
Dec 2017	ZAEU	16.39 Call	18,000	377.9225	457.9817	0.0000	0.0000	0	0.00		
Mar 2018	ZAEU	15.05 Put	5,648	99.1895	85.4076	0.0000	0.0000	0	0.00		
Mar 2018	ZAEU	15.10 Put	19,510	106.7051	90.0440	0.0000	0.0000	0	0.00		
Mar 2018	ZAEU	16.39 Put	174,600	489.6311	424.3732	0.0000	0.0000	0	0.00		
Mar 2018	ZAEU	16.50 Call	643	764.7488	859.2966	0.0000	0.0000	0	0.00		
Mar 2018	ZAEU	17.00 Call	620	544.9303	617.2178	0.0000	0.0000	0	0.00		
Jun 2018	ZAEU	13.75 Put	54,507	34.0544	28.7727	0.0000	0.0000	0	0.00		
Jun 2018	ZAEU	13.97 Put	7,000	45.0940	37.1232	0.0000	0.0000	0	0.00		
Jun 2018	ZAEU	15.25 Put	54,507	184.3336	163.9347	0.0000	0.0000	0	0.00		
Jun 2018	ZAEU	16.44 Put	7,000	549.6315	489.1548	0.0000	0.0000	0	0.00		
Jun 2018	ZAEU	18.61 Call	7,000	402.3990	443.7295	0.0000	0.0000	0	0.00		
Jun 2018	ZAEU	20.55 Call	54,507	156.0516	172.5759	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	14.25 Put	41,516	66.5161	69.1856	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	16.00 Put	41,516	407.1356	370.0441	0.0000	0.0000	0	0.00		
Sep 2018	ZAEU	21.63 Call	41,516	231.7069	248.0899	0.0000	0.0000	0	0.00		
			546,090					0.00	0.00	6 003 329.00	0.00
		Total	683,597					2,421.00	40,069,604.70	18 792 597.00	180 225 714 832.80
Future											

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Dec 2017	ZAFR	Future	1,502	14.1073	14.2228	0.0000	0.0000	0	0.00		
			<u>1,502</u>					<u>0.00</u>	<u>0.00</u>	<u>598 403.00</u>	<u>6 361 410 016.60</u>
		Total	1,502					0.00	0.00	598 403.00	6 361 410 016.60
Future											
Dec 2017	ZAGB	Future	214,167	18.4620	18.6554	18.5647	18.4508	1,303	24,121,485.00		
Mar 2018	ZAGB	Future	4,741	18.7987	19.0042	18.8554	18.8321	510	9,616,021.00		
Jun 2018	ZAGB	Future	4,422	19.1323	19.3353	19.2100	19.1970	27	518,579.00		
Sep 2018	ZAGB	Future	3,565	19.4668	19.6767	0.0000	0.0000	0	0.00		
			<u>226,895</u>					<u>1,840.00</u>	<u>34,256,085.00</u>	<u>9 241 893.00</u>	<u>153 908 873 385.80</u>
Option											
Dec 2017	ZAGB	18.20 Call	400	603.3784	722.7685	0.0000	0.0000	0	0.00		
Dec 2017	ZAGB	19.80 Call	800	99.7221	128.6599	0.0000	0.0000	0	0.00		
Mar 2018	ZAGB	17.00 Put	500	174.0140	145.9964	0.0000	0.0000	0	0.00		
Mar 2018	ZAGB	19.00 Call	1,500	711.1761	0.0000	0.0000	0.0000	1,500	0.00		
Mar 2018	ZAGB	20.14 Call	500	359.5893	411.8202	0.0000	0.0000	0	0.00		
			<u>3,700</u>					<u>1,500.00</u>	<u>0.00</u>	<u>1 771 513.00</u>	<u>0.00</u>
		Total	230,595					3,340.00	34,256,085.00	11 013 406.00	153 908 873 385.80
Future											
Dec 2017	ZAJY	Future	225	0.1244	0.1254	0.0000	0.0000	0	0.00		
			<u>225</u>					<u>0.00</u>	<u>0.00</u>	<u>952 950.00</u>	<u>10 619 017 477.80</u>
		Total	225					0.00	0.00	952 950.00	10 619 017 477.80
Future											
Jun 2018	ZAKS	Future	1,145	0.1335	0.1347	0.0000	0.0000	0	0.00		
Sep 2018	ZAKS	Future	562	0.1325	0.1342	0.0000	0.0000	0	0.00		
			<u>1,707</u>					<u>0.00</u>	<u>0.00</u>	<u>31 923.00</u>	<u>432 652 210.00</u>
		Total	1,707					0.00	0.00	31 923.00	432 652 210.00
Future											
Dec 2017	ZATR	Future	4,775	3.4946	3.5293	0.0000	0.0000	0	0.00		
Mar 2018	ZATR	Future	433	3.4426	3.4749	0.0000	0.0000	0	0.00		
			<u>5,208</u>					<u>0.00</u>	<u>0.00</u>	<u>233 314.00</u>	<u>843 471 050.50</u>
		Total	5,208					0.00	0.00	233 314.00	843 471 050.50
Future											
Dec 2017	ZAUM	Future	746	13.8940	14.0648	14.0457	13.9250	64	89,493,360.00		
Mar 2018	ZAUM	Future	28	14.1018	14.2805	14.2323	14.1620	15	21,296,550.00		
Jun 2018	ZAUM	Future	14	14.3064	14.4843	0.0000	0.0000	0	0.00		
			<u>788</u>					<u>79.00</u>	<u>110,789,910.00</u>	<u>144 550.00</u>	<u>165 951 355 830.00</u>

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>		
Total			788					79.00	110,789,910.00	149 073.00	165 951 355 830.00
Future											
Dec 2017	ZAUS	Future	1,053,353	13.8940	14.0648	14.0545	13.8896	81,467	1,137,460,175.70		
Mar 2018	ZAUS	Future	184,577	14.1018	14.2805	14.2655	14.1175	8,319	117,925,352.30		
Jun 2018	ZAUS	Future	112,906	14.3064	14.4843	14.4666	14.3500	709	10,182,052.40		
Sep 2018	ZAUS	Future	3,287	14.5103	14.6928	0.0000	0.0000	0	0.00		
			<u>1,354,123</u>					<u>90,495.00</u>	<u>1,265,567,580.40</u>	<u>158 803 201.00</u>	<u>1 862 047 868 953.30</u>
Option											
Dec 2017	ZAUS	11.75 Put	1,000	3.5545	2.9365	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	12.00 Put	20,141	5.0474	4.0854	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	12.16 Put	550	6.3779	5.0896	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	12.20 Put	4,000	6.7709	5.3834	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	12.21 Put	18,000	6.8735	5.4600	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	12.40 Put	114,600	9.2107	7.1832	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	12.50 Put	16,416	10.8065	8.3421	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	12.56 Put	7,100	13.4863	9.1424	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	12.65 Put	1,819	18.5312	10.5184	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	12.75 Put	10,000	25.8389	15.1088	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	12.76 Put	550	26.6814	15.6490	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.00 Put	10,000	54.3472	34.1515	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.10 Put	41,000	70.8620	45.7286	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.15 Put	2,600	80.4039	52.5553	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.18 Put	16,000	86.5661	57.0111	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.20 Call	7,000	784.8611	924.9387	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.20 Put	6,728	90.8611	60.1387	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.21 Put	5,000	93.0567	61.7501	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.22 Put	7,100	95.2906	63.3940	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.25 Call	16,141	746.2270	883.3241	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.35 Put	52,000	127.9655	87.8845	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.40 Put	114,600	142.4064	98.8944	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.50 Call	11,016	568.5743	688.6545	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.60 Call	4,000	505.2729	617.7633	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.76 Call	3,750	413.6786	513.5080	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.76 Put	3,000	279.6786	208.7080	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.80 Put	550	298.6593	224.4693	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	13.93 Call	7,820	330.0468	415.6389	0.0000	0.0000	720	0.00		
Dec 2017	ZAUS	14.00 Call	19,000	300.5238	379.2622	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	14.00 Put	34,000	406.5238	314.4622	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	14.10 Call	100	262.0656	332.1935	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	14.27 Put	40,000	582.0494	469.2718	0.0000	0.0000	0	0.00		
Dec 2017	ZAUS	14.40 Call	2,000	170.4239	220.0927	0.0000	0.0000	0	0.00		

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Dec 2017	ZAUS	14.50 Call	8,000	146.8095	190.6296	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	14.50 Put	2,055	752.8095	625.8296	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	14.63 Call	10,000	120.4380	157.4704	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	14.90 Call	1,500	78.6093	104.2504	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	15.00 Call	4,580	66.8779	89.0516	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	15.11 Call	1,900	55.8796	74.7089	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	15.50 Call	25,457	29.6546	39.6264	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	15.60 Call	10,000	25.2786	33.8210	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	16.00 Call	117,200	13.3991	17.9754	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	17.13 Call	18,000	3.9193	4.3920	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	17.24 Call	33,000	3.8004	4.2400	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	18.06 Call	2,055	3.2350	3.5664	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.00 Put	225,000	36.0804	29.2179	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.36 Put	20,880	60.5758	49.1323	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.40 Put	2,500	64.0450	51.9622	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.50 Put	26,000	73.4896	59.6798	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.57 Put	3,000	80.8055	65.6672	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.94 Put	5,000	140.5660	110.0794	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.00 Put	94,964	153.7095	120.9188	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.22 Put	15,000	209.4806	167.4798	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.25 Put	2,478	218.0473	174.7079	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.38 Put	2,500	257.9613	208.6065	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.40 Put	7,500	264.5110	214.2015	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.50 Call	15,000	902.7245	1024.2509	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.50 Put	17,750	300.9245	243.7509	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.60 Put	3,000	340.3041	276.9714	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.74 Put	20,880	400.4125	329.7057	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.76 Call	4,000	751.2713	858.2070	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.91 Put	7,000	481.1423	401.4438	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.05 Put	500	553.8700	466.8384	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.07 Call	100	596.5102	687.1419	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.16 Put	750	615.7065	522.1632	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.18 Put	41,000	627.4325	532.5904	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.20 Put	65,000	639.2660	543.1295	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.44 Call	10,000	451.1394	521.5952	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.45 Call	17,000	447.7033	517.7070	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.49 Put	80,000	822.3967	711.9165	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.50 Call	240	430.8789	498.6589	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.50 Put	400	829.0789	718.1589	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.52 Put	1,000	842.5130	730.7127	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.57 Call	100	408.2998	473.0413	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.68 Call	1,000	375.0276	435.1816	0.0000	0.0000	0	0.00

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Mar 2018	ZAUS	14.68 Put	1,000	953.2276	834.6816	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.75 Call	20,880	355.1980	412.5571	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.79 Call	100	344.3140	400.1233	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.79 Put	100	1032.5140	909.6233	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.86 Call	15,000	326.3069	379.1995	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.90 Call	5,000	316.4615	367.7094	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.91 Call	8,395	314.0442	364.8870	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.95 Call	3,000	304.5620	353.8072	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.00 Call	6,126	293.1098	340.6596	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.11 Call	2,500	269.4049	313.3982	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.26 Call	2,500	240.1714	279.6859	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.46 Call	3,867	206.1721	240.3537	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.50 Call	65,000	199.9936	233.1916	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.57 Call	6,000	189.1248	221.1836	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.69 Call	750	171.8459	202.0682	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	16.00 Call	3,276	134.2256	158.2765	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	16.16 Call	225,000	118.2196	139.5382	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.00 Put	750	13.5664	12.6371	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.50 Put	66	21.0803	18.3924	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.00 Put	137,000	52.7668	43.1222	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.25 Put	104,895	78.7267	64.4526	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.40 Put	12,603	98.4209	80.7516	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.75 Put	66	158.4848	131.0196	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.96 Put	2,700	205.7602	170.6463	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.00 Put	15,158	215.8593	179.0856	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.05 Put	1,250	228.9603	190.4530	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.17 Put	965	262.5697	219.7850	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.22 Put	15,000	277.4963	232.8760	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.30 Put	2,050	302.5277	254.9112	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.46 Put	5,183	356.8925	303.0917	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.48 Put	7,420	364.0940	309.5045	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.64 Put	70,530	425.9833	364.0133	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.75 Put	104,895	473.9958	404.8129	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.80 Put	500	496.7766	425.5178	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.81 Put	40,000	501.4075	429.7323	0.0000	0.0000	846	0.00
Jun 2018	ZAUS	13.83 Put	300	510.7321	438.2369	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.84 Put	500	515.4340	442.5231	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.90 Put	1,000	544.1195	468.7486	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.00 Put	6,130	593.8003	514.3556	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.10 Put	7,028	645.7752	562.3002	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.25 Put	2,000	727.9251	638.5250	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.71 Call	50	607.3020	678.5213	0.0000	0.0000	0	0.00

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Jun 2018	ZAUS	14.81 Call	500	574.2531	642.2029	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	15.11 Call	760	486.0850	544.2098	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	15.14 Call	2,700	478.1829	535.2645	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	15.43 Call	15,000	408.4401	457.8615	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	15.53 Call	965	386.9888	434.0193	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	15.79 Call	40,000	336.3132	378.0892	0.0000	0.0000	846	0.00		
Jun 2018	ZAUS	16.16 Call	5,183	273.1172	308.9178	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	16.38 Call	750	241.5821	273.6435	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	16.41 Call	300	237.5924	269.1733	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	16.49 Call	7,420	227.2968	257.6345	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	16.52 Call	66	223.5569	253.4430	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	16.65 Call	500	208.1149	236.1160	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	16.92 Call	104,895	179.6218	204.0926	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	17.00 Call	3,500	172.0239	195.5395	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	17.21 Call	500	154.4219	174.9167	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	17.28 Call	5,630	149.5962	168.5902	0.0000	0.0000	0	0.00		
Jun 2018	ZAUS	17.38 Call	7,028	143.0391	160.3445	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	11.00 Put	750	17.0833	18.1227	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.61 Put	5,300	157.9705	127.0976	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.65 Put	1,550	167.4347	135.0383	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	12.85 Put	750	220.1350	179.6969	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	13.65 Call	1,464	1346.7080	1467.8217	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	13.73 Put	2,500	518.9711	454.7017	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	15.97 Call	5,300	486.4149	534.7907	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	16.04 Call	1,550	471.6605	519.3287	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	16.14 Call	750	451.4193	498.1131	0.0000	0.0000	0	0.00		
Sep 2018	ZAUS	17.02 Call	2,500	309.5092	341.8258	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	733.4255	771.7567	0.0000	0.0000	0	0.00		
			<u>2,647,514</u>					<u>2,412.00</u>	<u>0.00</u>	<u>40 355 368.00</u>	<u>0.00</u>
	Total		4,001,637					92,907.00	1,265,567,580.40	199 158 569.00	1 862 047 868 953.30
	Grand Total		6,615,660					99,139.00	1 453 782 110.60	266,631,978	2,551,089,776,332.70