



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 20-November-2017

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Nov 2017	DAEU	Future	800	16.5306	16.5893	0.0000	0.0000	0	0.00
Dec 2017	DAEU	Future	3	16.5499	16.6093	0.0000	0.0000	0	0.00
Dec 2017	DAEU	Future	800	16.6368	16.6964	0.0000	0.0000	0	0.00
Jan 2018	DAEU	Future	30	16.7755	16.8343	0.0000	0.0000	0	0.00
Mar 2018	DAEU	Future	63	16.9347	17.0140	0.0000	0.0000	63	1,071,882.00
Mar 2018	DAEU	Future	3	16.9875	17.0454	0.0000	0.0000	0	0.00
			<u>1,699</u>					<u>63.00</u>	<u>1,071,882.00</u>
									<u>247 904.00</u>
									<u>3 576 364 446.30</u>
Option									
Jan 2018	DAEU	15.80 Put	193,000	156.8148	139.3570	0.0000	0.0000	0	0.00
Feb 2018	DAEU	16.41 Put	114,748	385.2264	357.7177	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					63.00	1,071,882.00
									880 151.00
									3 576 364 446.30
Future									
Dec 2017	DAGB	Future	10	18.6831	18.6157	0.0000	0.0000	0	0.00
Jan 2018	DAGB	Future	10	18.8639	18.7944	0.0000	0.0000	0	0.00
Mar 2018	DAGB	Future	17	18.9694	18.8983	0.0000	0.0000	0	0.00
Mar 2018	DAGB	Future	38	19.0196	19.0500	0.0000	0.0000	38	723,900.00
			<u>75</u>					<u>38.00</u>	<u>723,900.00</u>
									<u>53 553.00</u>
									<u>878 534 117.50</u>
Option									
Dec 2017	DAGB	19.19 Call	15,200	95.7141	83.0269	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					38.00	723,900.00
									260 866.00
									878 534 117.50
Future									
Nov 2017	DAUS	Future	300	14.0466	14.0493	0.0000	0.0000	0	0.00
Nov 2017	DAUS	Future	2,190	14.0562	14.0608	0.0000	0.0000	200	2,815,800.00
Nov 2017	DAUS	Future	2,708	14.0604	14.0654	0.0000	0.0000	0	0.00
Dec 2017	DAUS	Future	24	14.0697	14.0746	0.0000	0.0000	0	0.00
Dec 2017	DAUS	Future	241	14.0929	14.0977	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	14.0952	14.1000	0.0000	0.0000	0	0.00		
Dec 2017	DAUS	Future	916	14.1232	14.1279	0.0000	0.0000	0	0.00		
Dec 2017	DAUS	Future	500	14.1278	14.1325	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	677	14.1419	14.1465	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	500	14.1559	14.1605	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	241	14.1606	14.1651	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	300	14.1700	14.1744	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	241	14.1746	14.1791	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	70	14.1909	14.1953	0.0000	0.0000	0	0.00		
Jan 2018	DAUS	Future	915	14.2048	14.2089	0.0000	0.0000	58	824,646.00		
Feb 2018	DAUS	Future	70	14.2348	14.2386	0.0000	0.0000	0	0.00		
Feb 2018	DAUS	Future	500	14.2693	14.2727	0.0000	0.0000	0	0.00		
Mar 2018	DAUS	Future	189	14.3034	14.3385	0.0000	0.0000	189	2,709,976.50		
Mar 2018	DAUS	Future	696	14.3353	14.3383	0.0000	0.0000	0	0.00		
Apr 2018	DAUS	Future	70	14.3944	14.3971	0.0000	0.0000	0	0.00		
Apr 2018	DAUS	Future	110	14.4081	14.4107	0.0000	0.0000	0	0.00		
May 2018	DAUS	Future	70	14.4331	14.4356	0.0000	0.0000	0	0.00		
May 2018	DAUS	Future	181	14.4785	14.4807	0.0000	0.0000	0	0.00		
Jun 2018	DAUS	Future	445	14.5441	14.5461	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	Future	100	14.5508	14.5528	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	Future	1,800	14.5915	14.5934	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	Future	70	14.6029	14.6047	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	Future	1,853	14.6164	14.6182	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	Future	70	14.6458	14.6475	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	Future	1,336	14.6869	14.6883	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	Future	1,295	14.7515	14.7522	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	14.8138	14.8138	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.8230	14.8229	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.8576	14.8572	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	15.1031	15.0911	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	16.5604	16.5172	0.0000	0.0000	0	0.00		
			<u>104,894</u>					<u>447.00</u>	<u>6,350,422.50</u>	<u>6 887 769.00</u>	<u>83 467 110 006.40</u>
Option											
Nov 2017	DAUS	14.17 Call	10,000	58.8469	66.8660	0.0000	0.0000	0	0.00		
Nov 2017	DAUS	14.54 Call	300	24.4972	24.9854	0.0000	0.0000	0	0.00		
Nov 2017	DAUS	14.70 Call	50	11.8268	12.1363	0.0000	0.0000	0	0.00		
Nov 2017	DAUS	13.50 Put	60	17.4402	18.4813	0.0000	0.0000	0	0.00		
Nov 2017	DAUS	17.74 Call	60	0.2045	0.1729	0.0000	0.0000	0	0.00		
Nov 2017	DAUS	12.75 Put	238,000	1.2478	2.5769	0.0000	0.0000	0	0.00		
Dec 2017	DAUS	14.47 Call	30,000	74.4423	0.0000	0.0000	0.0000	30,000	0.00		
Dec 2017	DAUS	13.50 Put	60	126.7638	112.3965	0.0000	0.0000	0	0.00		
Dec 2017	DAUS	18.02 Call	60	4.2115	3.7917	0.0000	0.0000	0	0.00		

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Dec 2017	DAUS	14.50 Call	150	244.2599	236.1326	0.0000	0.0000	0	0.00
Dec 2017	DAUS	14.80 Call	200	165.5430	158.6812	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.20 Put	2,000	84.3596	80.6694	0.0000	0.0000	0	0.00
Jan 2018	DAUS	14.76 Call	1,000	206.5538	205.7512	0.0000	0.0000	0	0.00
Jan 2018	DAUS	14.88 Call	1,000	178.7993	178.0835	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.90 Put	20,000	305.1437	306.0940	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.25 Put	107,000	119.1678	118.6283	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.27 Put	154,000	123.3366	122.8270	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.30 Put	40,904	129.7935	129.3303	0.0000	0.0000	0	0.00
Jan 2018	DAUS	13.40 Put	168,000	153.1299	152.8411	0.0000	0.0000	0	0.00
Feb 2018	DAUS	12.57 Put	242	37.4412	36.9864	0.0000	0.0000	0	0.00
Feb 2018	DAUS	13.04 Put	234	82.6523	81.7913	0.0000	0.0000	0	0.00
Feb 2018	DAUS	13.15 Put	3,496	101.1285	100.3695	0.0000	0.0000	0	0.00
Feb 2018	DAUS	15.22 Call	242	174.5215	178.1351	0.0000	0.0000	0	0.00
Feb 2018	DAUS	15.52 Call	2,723	128.7220	131.9420	0.0000	0.0000	0	0.00
Feb 2018	DAUS	15.79 Call	234	96.6398	99.4007	0.0000	0.0000	0	0.00
Feb 2018	DAUS	15.88 Call	773	87.6368	90.2384	0.0000	0.0000	0	0.00
Feb 2018	DAUS	13.80 Put	35,000	290.1152	290.0443	0.0000	0.0000	0	0.00
Feb 2018	DAUS	13.16 Put	1,880	110.0875	0.0000	0.0000	0.0000	1,880	0.00
Feb 2018	DAUS	13.86 Put	1,880	317.7469	0.0000	0.0000	0.0000	1,880	0.00
Feb 2018	DAUS	15.05 Call	1,880	226.0301	0.0000	0.0000	0.0000	1,880	0.00
Feb 2018	DAUS	13.90 Put	20,000	338.5825	334.4937	0.0000	0.0000	0	0.00
Feb 2018	DAUS	14.20 Put	20,000	488.8159	488.8143	0.0000	0.0000	0	0.00
Feb 2018	DAUS	14.18 Put	90,000	490.8378	490.8525	0.0000	0.0000	0	0.00
Mar 2018	DAUS	13.50 Put	100,000	212.4243	211.4532	0.0000	0.0000	0	0.00
Mar 2018	DAUS	13.40 Put	100,000	185.9609	184.8892	0.0000	0.0000	0	0.00
Apr 2018	DAUS	15.00 Put	1,000	1046.3965	1046.4363	0.0000	0.0000	0	0.00
Apr 2018	DAUS	15.81 Call	2,000	262.5822	265.2908	0.0000	0.0000	0	0.00
Apr 2018	DAUS	13.80 Put	1,000	369.7782	369.7857	0.0000	0.0000	0	0.00
Apr 2018	DAUS	15.23 Call	500	392.8577	395.5557	0.0000	0.0000	0	0.00
Apr 2018	DAUS	15.66 Call	500	299.2808	301.9964	0.0000	0.0000	0	0.00
May 2018	DAUS	12.74 Put	1,880	102.6727	0.0000	0.0000	0.0000	3,760	0.00
May 2018	DAUS	13.86 Put	1,880	400.9379	0.0000	0.0000	0.0000	1,880	0.00
May 2018	DAUS	15.63 Call	1,880	324.7065	0.0000	0.0000	0.0000	3,760	0.00
May 2018	DAUS	12.75 Put	11,000	106.1013	106.3643	0.0000	0.0000	0	0.00
May 2018	DAUS	14.50 Put	11,000	728.5412	728.7051	0.0000	0.0000	0	0.00
May 2018	DAUS	15.76 Call	11,000	310.3001	312.9824	0.0000	0.0000	0	0.00
May 2018	DAUS	13.80 Put	1,000	393.4871	392.4368	0.0000	0.0000	0	0.00
May 2018	DAUS	15.43 Call	500	419.7230	421.6160	0.0000	0.0000	0	0.00
May 2018	DAUS	15.89 Call	500	324.1598	326.2000	0.0000	0.0000	0	0.00
Jun 2018	DAUS	13.80 Put	1,000	415.9476	414.1255	0.0000	0.0000	0	0.00
Jun 2018	DAUS	15.62 Call	500	444.5705	445.3929	0.0000	0.0000	0	0.00

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Jun 2018	DAUS	16.10 Call	500	346.8555	347.8504	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	14.19 Put	1,500	609.5461	606.7462	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	14.45 Put	1,500	746.1811	743.5297	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.72 Call	1,500	477.6428	477.4956	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.94 Call	1,500	429.8493	429.8214	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	13.80 Put	1,000	437.9593	434.7864	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	15.82 Call	500	470.5558	470.2758	0.0000	0.0000	0	0.00		
Jul 2018	DAUS	16.32 Call	500	370.1305	370.1332	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	12.32 Put	1,880	72.8498	0.0000	0.0000	0.0000	3,760	0.00		
Aug 2018	DAUS	13.86 Put	1,880	466.4685	0.0000	0.0000	0.0000	1,880	0.00		
Aug 2018	DAUS	16.18 Call	1,880	410.7987	0.0000	0.0000	0.0000	2,990	0.00		
Aug 2018	DAUS	13.80 Put	1,000	458.6303	454.2685	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.05 Call	500	487.4738	486.1654	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.57 Call	500	386.1526	385.2093	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	13.80 Put	1,000	474.4717	469.1648	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	16.25 Call	500	503.2610	500.9743	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	16.80 Call	500	399.2038	397.3711	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.80 Put	1,000	491.5803	485.3287	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	16.47 Call	500	522.7658	519.3850	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	17.02 Call	500	421.7088	418.8632	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	11.90 Put	1,880	38.2717	0.0000	0.0000	0.0000	3,760	0.00		
Nov 2018	DAUS	13.86 Put	1,880	516.7259	0.0000	0.0000	0.0000	1,880	0.00		
Nov 2018	DAUS	16.81 Call	1,880	466.1051	0.0000	0.0000	0.0000	3,760	0.00		
Nov 2018	DAUS	13.80 Put	1,000	506.1266	500.0941	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	537.5422	534.2129	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	431.0845	428.3903	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.80 Put	1,000	519.3852	514.5259	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	16.93 Call	500	562.6926	558.2341	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	17.58 Call	500	453.4576	449.5265	0.0000	0.0000	0	0.00		
			<u>1,228,348</u>					<u>63,070.00</u>	<u>0.00</u>	<u>14 911 420.00</u>	<u>0.00</u>
Total			1,333,242					63,517.00	6,350,422.50	21 799 189.00	83 467 110 006.40
Future											
Dec 2017	EUUS	Future	30	1.1773	1.1811	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	10,057	10.6524	10.6341	0.0000	0.0000	0	0.00		
Mar 2018	ZAAD	Future	1,650	10.8053	10.7853	10.8391	10.8391	1	10,839.10		
Jun 2018	ZAAD	Future	300	10.9585	10.9370	0.0000	0.0000	0	0.00		
Dec 2018	ZAAD	Future	10,812	11.2687	11.2440	0.0000	0.0000	0	0.00		

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			22,819					1.00	10,839.10	3 422 387.00	29 397 299 755.90
		Total	22,819					1.00	10,839.10	3 454 764.00	29 397 299 755.90
Future											
	Dec 2017 ZACA	Future	1,000	11.0333	11.0097	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	1,150	2.2336	2.2416	2.2401	2.2401	100	2,240,100.00		
			1,150					100.00	2,240,100.00	9 920.00	213 527 209.00
		Total	1,150					100.00	2,240,100.00	9 920.00	213 527 209.00
Future											
	Dec 2017 ZAEU	Future	110,097	16.6019	16.6612	16.6472	16.5766	382	6,342,764.80		
	Mar 2018 ZAEU	Future	22,373	16.9495	17.0074	17.0085	16.9593	7,240	123,095,586.00		
	Jun 2018 ZAEU	Future	546	17.2962	17.3537	17.3355	17.3355	35	606,742.50		
	Sep 2018 ZAEU	Future	4,679	17.6528	17.7094	17.7241	17.7241	10	177,241.00		
			137,695					7,667.00	130,222,334.30	12 786 190.00	180 174 700 011.30
Option											
	Dec 2017 ZAEU	14.00 Put	18,000	3.7528	2.6395	0.0000	0.0000	0	0.00		
	Dec 2017 ZAEU	16.39 Call	18,000	487.0119	510.2558	0.0000	0.0000	0	0.00		
	Mar 2018 ZAEU	15.05 Put	5,648	78.9569	71.7021	0.0000	0.0000	0	0.00		
	Mar 2018 ZAEU	15.10 Put	19,510	83.2624	75.5700	0.0000	0.0000	0	0.00		
	Mar 2018 ZAEU	16.39 Put	174,600	393.6614	366.8795	0.0000	0.0000	0	0.00		
	Mar 2018 ZAEU	16.50 Call	643	889.3161	918.8728	0.0000	0.0000	0	0.00		
	Mar 2018 ZAEU	17.00 Call	620	638.5686	660.6695	0.0000	0.0000	0	0.00		
	Jun 2018 ZAEU	13.75 Put	54,507	27.4220	27.0669	0.0000	0.0000	0	0.00		
	Jun 2018 ZAEU	13.97 Put	7,000	33.8945	32.0394	0.0000	0.0000	0	0.00		
	Jun 2018 ZAEU	15.25 Put	54,507	150.9398	140.6866	0.0000	0.0000	0	0.00		
	Jun 2018 ZAEU	16.44 Put	7,000	459.9038	434.8064	0.0000	0.0000	0	0.00		
	Jun 2018 ZAEU	18.61 Call	7,000	459.0831	468.3466	0.0000	0.0000	0	0.00		
	Jun 2018 ZAEU	20.55 Call	54,507	179.3984	182.5679	0.0000	0.0000	0	0.00		
	Sep 2018 ZAEU	14.25 Put	41,516	61.0576	51.4059	0.0000	0.0000	0	0.00		
	Sep 2018 ZAEU	16.00 Put	41,516	347.9331	327.8060	0.0000	0.0000	0	0.00		
	Sep 2018 ZAEU	21.63 Call	41,516	252.6676	252.3052	0.0000	0.0000	0	0.00		
			546,090					0.00	0.00	6 003 288.00	0.00
		Total	683,785					7,667.00	130,222,334.30	18 789 478.00	180 174 700 011.30
Future											
	Dec 2017 ZAFR	Future	1,502	14.2369	14.2671	0.0000	0.0000	0	0.00		

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			1,502					0.00	0.00	598 403.00	6 361 410 016.60
	Total		1,502					0.00	0.00	598 403.00	6 361 410 016.60
Future											
	Dec 2017 ZAGB	Future	213,040	18.6941	18.6266	18.7630	18.6768	560	10,486,418.70		
	Mar 2018 ZAGB	Future	4,126	19.0340	18.9627	19.0675	19.0115	421	8,017,921.50		
	Jun 2018 ZAGB	Future	4,393	19.3694	19.2950	19.4008	19.4008	10	194,008.00		
	Sep 2018 ZAGB	Future	3,565	19.7073	19.6291	19.7409	19.7409	10	197,409.00		
			225,124					1,001.00	18,895,757.20	9 239 119.00	153 857 067 936.00
Option											
	Dec 2017 ZAGB	18.20 Call	400	739.9288	681.7000	0.0000	0.0000	0	0.00		
	Dec 2017 ZAGB	19.80 Call	800	128.0887	107.6149	0.0000	0.0000	0	0.00		
	Mar 2018 ZAGB	17.00 Put	500	139.8217	150.1493	0.0000	0.0000	0	0.00		
	Mar 2018 ZAGB	20.14 Call	500	414.7411	402.1158	0.0000	0.0000	0	0.00		
			2,200					0.00	0.00	1 770 013.00	0.00
	Total		227,324					1,001.00	18,895,757.20	11 009 132.00	153 857 067 936.00
Future											
	Dec 2017 ZAJY	Future	225	0.1257	0.1256	0.0000	0.0000	0	0.00		
			225					0.00	0.00	952 950.00	10 619 017 477.80
	Total		225					0.00	0.00	952 950.00	10 619 017 477.80
Future											
	Jun 2018 ZAKS	Future	1,145	0.1339	0.1334	0.0000	0.0000	0	0.00		
	Sep 2018 ZAKS	Future	562	0.1339	0.1326	0.0000	0.0000	0	0.00		
			1,707					0.00	0.00	31 923.00	432 652 210.00
	Total		1,707					0.00	0.00	31 923.00	432 652 210.00
Future											
	Dec 2017 ZATR	Future	4,775	3.5678	3.5991	0.0000	0.0000	0	0.00		
			4,775					0.00	0.00	232 448.00	840 450 875.50
	Total		4,775					0.00	0.00	232 448.00	840 450 875.50
Future											
	Dec 2017 ZAUM	Future	758	14.1022	14.1070	14.1271	14.0808	30	42,339,650.00		
	Mar 2018 ZAUM	Future	28	14.3125	14.3157	0.0000	0.0000	0	0.00		
	Jun 2018 ZAUM	Future	14	14.5192	14.5213	0.0000	0.0000	0	0.00		
			800					30.00	42,339,650.00	144 451.00	165 812 257 370.00
	Total		800					30.00	42,339,650.00	148 974.00	165 812 257 370.00

<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	ZAUS	Future	1,071,591	14.1022	14.1070	14.1480	14.0500	68,713	969,323,354.50
Mar 2018	ZAUS	Future	183,338	14.3125	14.3157	14.3565	14.2600	1,818	26,022,872.50
Jun 2018	ZAUS	Future	112,346	14.5192	14.5213	14.5450	14.5000	318	4,616,626.20
Sep 2018	ZAUS	Future	3,287	14.7261	14.7271	14.7418	14.7418	10	147,418.00
			<u>1,370,562</u>					<u>70,859.00</u>	<u>1,000,110,271.20</u>
									<u>158 647 768.00</u>
									<u>1 859 863 493 130.30</u>

Option

Dec 2017	ZAUS	11.75 Put	1,000	2.5740	2.2487	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	12.00 Put	20,141	3.5855	3.2303	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	12.16 Put	550	4.4701	4.1060	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	12.20 Put	4,000	4.7290	4.3647	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	12.21 Put	18,000	4.7964	4.4322	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	12.40 Put	114,600	6.3155	5.9677	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	12.50 Put	16,416	7.3375	7.0132	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	12.56 Put	7,100	8.0437	7.7398	0.0000	0.0000	4,400	0.00
Dec 2017	ZAUS	12.65 Put	1,819	9.2581	8.9965	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	12.75 Put	10,000	12.1045	11.6552	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	12.76 Put	550	12.5597	12.0609	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.00 Put	10,000	28.5099	26.0871	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.10 Put	41,000	38.7278	35.0124	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.12 Put	40,000	41.0791	37.0665	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.15 Put	2,600	44.8129	40.3308	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.18 Put	16,000	48.8054	43.8228	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.20 Call	7,000	953.8155	953.2830	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.20 Put	6,728	51.6155	46.2830	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.21 Put	5,000	53.0658	47.5539	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.22 Put	7,100	54.5481	48.8525	0.0000	0.0000	13,600	0.00
Dec 2017	ZAUS	13.25 Call	16,141	911.3831	909.9191	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.35 Put	52,000	76.8073	68.4431	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.40 Put	114,600	86.9570	77.4308	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.50 Call	11,016	712.0988	706.1676	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.60 Call	4,000	639.0986	632.0302	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.76 Call	3,750	531.3748	522.7080	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.76 Put	3,000	189.1748	175.7080	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.80 Put	550	204.0687	190.2582	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	13.93 Call	7,100	429.8631	419.9133	0.0000	0.0000	4,400	0.00
Dec 2017	ZAUS	14.00 Call	19,000	392.0399	381.7103	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	14.00 Put	34,000	289.8399	274.7103	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	14.10 Call	100	342.0331	331.3221	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	14.27 Put	40,000	438.9855	423.6238	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	14.40 Call	2,000	225.4628	215.3213	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	14.50 Call	8,000	194.8530	185.1737	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	14.50 Put	2,055	592.6530	578.1737	0.0000	0.0000	0	0.00

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Dec 2017	ZAUS	14.63 Call	10,000	160.4482	151.4995	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	14.90 Call	1,500	105.4845	98.2483	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	15.00 Call	4,580	89.8230	83.2203	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	15.11 Call	1,900	75.0810	69.1623	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	15.12 Call	40,000	73.8580	68.0016	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	15.50 Call	25,457	39.1082	35.3330	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	15.60 Call	10,000	33.2699	29.9389	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	16.00 Call	117,200	17.4599	15.5007	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	17.13 Call	18,000	3.9744	3.5115	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	17.24 Call	33,000	3.8499	3.4182	0.0000	0.0000	0	0.00
Dec 2017	ZAUS	18.06 Call	2,055	3.3216	3.0510	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.00 Put	225,000	26.2293	26.7744	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.36 Put	20,880	44.4785	44.5875	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.40 Put	2,500	47.0855	47.1187	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.50 Put	26,000	54.2086	54.0276	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.57 Put	3,000	59.7500	59.3926	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	12.94 Put	5,000	101.2980	100.0193	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.00 Put	94,964	111.5663	110.3068	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.22 Put	15,000	155.9258	154.8148	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.25 Put	2,478	162.8398	161.7600	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.38 Put	2,500	195.3676	194.4393	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.40 Put	7,500	200.7498	199.8489	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.50 Call	15,000	1041.7269	1044.1703	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.50 Put	17,750	229.2269	228.4703	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.60 Put	3,000	260.3858	259.7960	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.74 Put	20,880	311.6175	311.1426	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.76 Call	4,000	871.9083	874.6510	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	13.91 Put	7,000	381.6127	381.2972	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.05 Put	500	445.6604	445.4776	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.16 Put	750	499.9865	499.9106	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.18 Put	41,000	510.2376	510.1810	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.20 Put	65,000	520.6026	520.5651	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.44 Call	10,000	528.4075	531.6867	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.45 Call	17,000	524.4501	527.7297	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.49 Put	80,000	686.3855	686.4666	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.50 Call	240	505.0584	508.3430	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.50 Put	400	692.5584	692.6430	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.52 Put	1,000	704.9813	705.0694	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.68 Call	1,000	440.4703	443.7617	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.68 Put	1,000	807.9703	808.0617	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.75 Call	20,880	417.4628	420.7496	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.79 Call	100	404.8200	408.1010	0.0000	0.0000	0	0.00

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Mar 2018	ZAUS	14.79 Put	100	882.3200	882.4010	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.86 Call	15,000	383.5487	386.8235	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.90 Call	5,000	371.8711	375.1405	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.91 Call	8,395	369.0038	372.2709	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	14.95 Call	3,000	357.7457	361.0062	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.00 Call	6,126	344.1315	347.3816	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.11 Call	2,500	316.4259	319.6458	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.26 Call	2,500	282.1923	285.3646	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.46 Call	3,867	242.2942	245.3836	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.50 Call	65,000	235.0338	238.1052	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.57 Call	6,000	222.8649	225.9006	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	15.69 Call	750	203.5068	206.4794	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	16.00 Call	3,276	159.5013	162.1701	0.0000	0.0000	0	0.00
Mar 2018	ZAUS	16.16 Call	225,000	140.5284	143.0251	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.00 Put	750	12.0739	12.4872	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.50 Put	66	17.6134	18.3222	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.00 Put	137,000	39.5402	40.3559	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.25 Put	104,895	59.5838	60.2462	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.40 Put	12,603	74.9913	75.4775	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.75 Put	66	122.8536	122.6307	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.96 Put	2,700	160.8480	159.9820	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.00 Put	15,158	168.9592	167.9542	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.05 Put	1,250	179.5108	178.3220	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.17 Put	965	207.8131	206.5934	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.22 Put	15,000	220.4706	219.2412	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.30 Put	2,050	241.8008	240.5597	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.46 Put	5,183	288.5604	287.3052	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.48 Put	7,420	294.7954	293.5427	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.64 Put	70,530	347.8788	346.6304	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.75 Put	104,895	387.7052	386.4717	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.80 Put	500	406.7261	405.5011	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.83 Put	300	419.1761	417.9546	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.84 Put	500	423.3770	422.1529	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.90 Put	1,000	449.0764	447.8571	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.00 Put	6,130	493.8209	492.6160	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.10 Put	7,028	540.9395	539.7493	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.25 Put	2,000	615.9783	614.8211	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.71 Call	50	687.5412	688.6110	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.81 Call	500	650.6866	651.7861	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.11 Call	760	551.2812	552.4652	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.14 Call	2,700	542.2090	543.3970	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.43 Call	15,000	463.0228	464.2846	0.0000	0.0000	0	0.00

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Jun 2018	ZAUS	15.53 Call	965	438.8362	440.1192	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	16.16 Call	5,183	312.4944	313.8871	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	16.38 Call	750	276.6417	278.0657	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	16.41 Call	300	272.1010	273.5289	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	16.49 Call	7,420	260.3753	261.8127	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	16.52 Call	66	256.1188	257.5562	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	16.65 Call	500	238.5197	239.9657	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	16.92 Call	104,895	206.0082	207.4620	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	17.00 Call	3,500	197.3290	198.7843	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	17.21 Call	500	176.4082	177.8568	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	17.28 Call	5,630	169.9900	171.4368	0.0000	0.0000	0	0.00	
Jun 2018	ZAUS	17.38 Call	7,028	161.2723	162.7126	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	11.00 Put	750	17.8940	19.3534	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.61 Put	5,300	119.1411	120.3542	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.65 Put	1,550	126.8128	127.8074	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	12.85 Put	750	170.1203	169.7722	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.65 Call	1,464	1488.4111	1484.5121	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	13.73 Put	2,500	441.4131	436.5147	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	15.97 Call	5,300	540.2630	538.2442	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	16.04 Call	1,550	524.5602	522.6097	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	16.14 Call	750	503.0255	501.1578	0.0000	0.0000	0	0.00	
Sep 2018	ZAUS	17.02 Call	2,500	344.8865	343.6879	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	777.9557	770.1192	0.0000	0.0000	0	0.00	
			<u>2,646,594</u>					<u>22,400.00</u>	<u>0.00</u>	<u>40 112 556.00</u>
		Total	4,017,156					93,259.00	1,000,110,271.20	198 760 324.00
										1 859 863 493 130.30
		Grand Total	6,620,237					165,676.00	1 201 965 156.30	266,216,942
										2,548,566,363,436.70