



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 24-January-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Feb 2019	DAEU	Future	29	15.7711	15.8681	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	15.8637	15.9621	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	15.9194	16.0177	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	15.9554	16.0538	0.0000	0.0000	0	0.00		
			87					0.00	0.00	816 050.00	12 203 231 036.50
Option											
Feb 2019	DAEU	15.80 Put	25,000	251.4010	208.1763	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	16,200	1174.4903	1112.2389	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	119.6541	129.5759	0.0000	0.0000	0	0.00		
			103,600					0.00	0.00	1 560 587.00	0.00
Total			103,687					0.00	0.00	2 376 637.00	12 203 231 036.50
Future											
Jan 2019	DAGB	Future	27	17.9827	18.1182	0.0000	0.0000	0	0.00		
Feb 2019	DAGB	Future	47	18.0675	18.2035	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.1552	18.2928	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	18.2072	18.3449	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	18.2410	18.3789	0.0000	0.0000	0	0.00		
			317					0.00	0.00	66 675.00	1 118 086 763.20
Total			317					0.00	0.00	273 988.00	1 118 086 763.20
Future											
Jan 2019	DAUS	Future	0	13.7662	13.8652	0.0000	0.0000	51	704,381.40		
Jan 2019	DAUS	Future	1,018	13.7741	13.8730	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,837	13.7757	13.8746	0.0000	0.0000	39	539,604.00		
Feb 2019	DAUS	Future	70	13.7967	13.8956	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	6	13.8000	13.8989	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	0	13.8162	13.9152	0.0000	0.0000	15	207,870.00		
Feb 2019	DAUS	Future	5,759	13.8210	13.9202	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	13.8275	13.9268	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>		
Mar 2019	DAUS	Future	80	13.8291	13.9285	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.8647	13.9648	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,228	13.8680	13.9681	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	13.8745	13.9746	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	260	13.8957	13.9957	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	349	13.9138	14.0138	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	15	13.9189	14.0189	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	345	13.9206	14.0207	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	238	13.9733	14.0738	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	13.9801	14.0806	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	333	14.0209	14.1215	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.0260	14.1266	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.0790	14.1798	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.1352	14.2366	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.1387	14.2401	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.1879	14.2900	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.2390	14.3419	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.2958	14.3977	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.2994	14.4013	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.3509	14.4529	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.4031	14.5050	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.4614	14.5616	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.5198	14.6181	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.5702	14.6676	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.6318	14.7325	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.7342	14.8395	0.0000	0.0000	0	0.00		
			<u>104,527</u>					<u>105.00</u>	<u>1,451,855.40</u>	<u>11 034 879.00</u>	<u>135 687 332 904.00</u>
Option											
Jan 2019	DAUS	13.00 Put	500	1.1549	1.0669	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.80 Put	600	120.4844	80.8934	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	13.95 Put	731	223.7708	159.0825	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.00 Call	731	39.2402	67.7885	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.20 Call	600	15.1595	27.8349	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.20 Put	250	439.4595	353.2349	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.25 Put	250	486.2266	397.5066	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.38 Call	500	6.4155	12.0633	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	14.55 Call	600	2.9435	5.4583	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	15.13 Call	250	0.3226	0.8007	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	15.47 Call	250	0.1226	0.2796	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	13.87 Put	22,000	237.2723	191.0041	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	13.00 Put	500	19.9763	18.4106	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	13.70 Put	600	189.3794	158.0771	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>
Feb 2019	DAUS	14.20 Put	250	504.3419	441.1436	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	114.0779	147.6409	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	543.0779	477.4409	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	68.1182	90.7358	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	42.7800	59.0365	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	14.7007	21.9643	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	6.6856	10.2074	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	350.0537	301.2271	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	34.7945	45.9019	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	351.8905	308.1321	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	424.3721	373.3953	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	52.8203	43.4836	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	163.1097	139.2027	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	349.5974	406.5875	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	563.2682	504.0027	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	598.9916	537.7900	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	179.0603	212.5386	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	125.9742	151.6785	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	44.5495	57.0807	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	25.4688	34.3244	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	309.5151	271.4057	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	213.5977	249.4924	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	93.0965	80.8764	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	665.6892	737.6088	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	614.2108	558.0031	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	648.1671	590.2835	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	177.8652	203.9433	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	82.6958	96.8215	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	58.2493	68.7192	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	129.3614	114.7834	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	659.8175	606.2009	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	692.5820	637.5007	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	224.4439	251.8479	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	119.0945	135.9279	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	89.0151	102.1376	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	159.0815	143.2695	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	693.7396	642.2333	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	725.6943	672.8618	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	258.9423	287.0077	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	147.6439	166.2264	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	114.6184	129.6837	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	308.6803	279.5219	0.0000	0.0000	0	0.00

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Jul 2019	DAUS	16.44 Call	39,250	111.6978	126.2444	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	190.3927	173.6949	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.20 Put	250	727.1225	677.8190	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	758.3671	707.8561	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	297.7573	326.9716	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	180.5135	201.2132	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.50 Call	250	144.6321	161.9326	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,147	919.2337	864.3502	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,147	178.4255	198.3615	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	214.5684	197.7460	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.20 Put	250	753.3912	706.2542	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	784.1250	735.7259	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	327.9797	357.2074	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	207.7726	229.7262	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.70 Call	250	169.7954	188.4061	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	61.2052	72.5760	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	236.7170	219.9186	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.20 Put	250	775.8062	730.5477	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	806.0853	759.7436	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	357.3917	388.5920	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	235.3914	258.4572	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.89 Call	250	194.5633	214.2673	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	258.6584	241.3906	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.20 Put	250	797.6115	752.8939	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	827.6103	781.8358	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	381.0667	412.4292	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	259.7180	282.8281	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	218.6786	238.7605	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	277.4654	260.8583	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	815.2574	772.6485	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	844.9799	801.3894	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	404.3578	435.6545	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	282.9782	306.2654	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	243.6310	262.0763	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	296.1703	279.9767	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	831.7429	790.7911	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	861.1785	819.3029	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	427.2815	458.9455	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	307.7930	331.7825	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	270.5242	289.1445	0.0000	0.0000	0	0.00		
			<u>314,856</u>					<u>0.00</u>	<u>0.00</u>	<u>22 258 715.00</u>	<u>0.00</u>

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Total			419,383					105.00	1,451,855.40	33 293 594.00	135 687 332 904.00
Future											
Mar 2019	EUUS	Future	5	1.1428	1.1417	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1515	1.1503	0.0000	0.0000	0	0.00		
			<u>587</u>					<u>0.00</u>	<u>0.00</u>	745 402.00	8 456 173 900.00
Total			587					0.00	0.00	745 402.00	8 456 173 900.00
Future											
Mar 2019	GBUS	Future	5	1.3084	1.3089	1.3066	1.3066	100	1,306,600.00		
			<u>5</u>					<u>100.00</u>	<u>1,306,600.00</u>	171 722.00	2 209 540 628.00
Total			5					100.00	1,306,600.00	171 722.00	2 209 540 628.00
Future											
Mar 2019	ZAAD	Future	7,203	9.8470	9.9590	9.8773	9.8640	251	2,475,877.30		
Jun 2019	ZAAD	Future	15,741	9.9634	10.0770	0.0000	0.0000	0	0.00		
Sep 2019	ZAAD	Future	713	10.0933	10.2086	10.1087	10.1087	100	1,010,870.00		
Dec 2019	ZAAD	Future	400	10.2196	10.3351	0.0000	0.0000	0	0.00		
			<u>24,057</u>					<u>351.00</u>	<u>3,486,747.30</u>	3 846 468.00	33 698 156 459.50
Option											
Dec 2019	ZAAD	11.00 Call	1,000	245.8056	280.2219	0.0000	0.0000	0	0.00		
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	34 377.00	0.00
Total			25,057					351.00	3,486,747.30	3 880 845.00	33 698 156 459.50
Future											
Mar 2019	ZACA	Future	500	10.3976	10.4595	0.0000	0.0000	0	0.00		
Jun 2019	ZACA	Future	400	10.5289	10.5914	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	250	10.6720	10.7349	0.0000	0.0000	0	0.00		
			<u>1,150</u>					<u>0.00</u>	<u>0.00</u>	149 263.00	1 480 114 720.10
Total			1,150					0.00	0.00	149 263.00	1 480 114 720.10
Future											
Mar 2019	ZAEU	Future	125,614	15.8282	15.9264	15.8060	15.7955	7,465	118,072,525.00		
Jun 2019	ZAEU	Future	24,275	16.1175	16.2171	16.1277	16.1277	500	8,063,850.00		
Sep 2019	ZAEU	Future	22,084	16.4374	16.5388	16.4349	16.4246	7	115,023.70		
Dec 2019	ZAEU	Future	17,899	16.7438	16.8476	0.0000	0.0000	0	0.00		
			<u>189,872</u>					<u>7,972.00</u>	<u>126,251,398.70</u>	16 137 911.00	233 097 401 811.30
Option											
Mar 2019	ZAEU	16.00 Call	650	254.5300	300.8988	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	272.8358	293.8698	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	49.0306	45.8774	0.0000	0.0000	0	0.00		

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Dec 2019	ZAEU	16.15 Put	17,150	639.6622	601.4768	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	254.6451	264.0733	0.0000	0.0000	0	0.00	
			<u>107,100</u>					<u>0.00</u>	<u>0.00</u>	<u>10 956 876.00</u>
	Total		296,972					7,972.00	126,251,398.70	27 094 787.00
										233 097 401 811.30
Future										
Mar 2019	ZAFR	Future	1,143	14.0076	14.0629	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	14.2771	14.3331	14.3168	14.2899	200	2,860,670.00	
			<u>1,293</u>					<u>200.00</u>	<u>2,860,670.00</u>	<u>626 580.00</u>
	Total		1,293					200.00	2,860,670.00	6 754 562 099.60
										6 754 562 099.60
Future										
Mar 2019	ZAGB	Future	395,622	18.1217	18.2590	18.1200	18.1000	550	9,956,000.00	
Jun 2019	ZAGB	Future	5,764	18.3931	18.5324	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	15,609	18.6903	18.8314	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	12,690	18.9710	19.1142	0.0000	0.0000	94	1,795,212.00	
			<u>429,685</u>					<u>644.00</u>	<u>11,751,212.00</u>	<u>13 823 086.00</u>
	Total							644.00	11,751,212.00	236 380 645 502.30
										236 380 645 502.30
Option										
Mar 2019	ZAGB	18.00 Put	500	336.3168	287.7698	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	134.0400	169.3643	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	1171.7596	1064.0077	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	33.2200	45.3191	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	26.4689	35.6482	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	6.0613	7.2368	0.0000	0.0000	0	0.00	
			<u>6,500</u>					<u>0.00</u>	<u>0.00</u>	<u>1 783 113.00</u>
	Total		436,185					644.00	11,751,212.00	15 606 199.00
										236 380 645 502.30
Future										
Mar 2019	ZAJY	Future	10,000	0.1271	0.1275	0.0000	0.0000	0	0.00	
			<u>10,000</u>					<u>0.00</u>	<u>0.00</u>	<u>1 132 337.00</u>
	Total		10,000					0.00	0.00	51 952 149 053.60
										51 952 149 053.60
Future										
Jun 2019	ZAKS	Future	2,166	0.1355	0.1362	0.0000	0.0000	0	0.00	
			<u>2,166</u>					<u>0.00</u>	<u>0.00</u>	<u>38 066.00</u>
	Total		2,166					0.00	0.00	515 662 000.00
										515 662 000.00
Future										
Sep 2019	ZANZ	Future	213	9.6462	9.7194	0.0000	0.0000	0	0.00	
			<u>213</u>					<u>0.00</u>	<u>0.00</u>	<u>146 359.00</u>
	Total		213					0.00	0.00	1 123 547 250.60
										1 123 547 250.60

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Mar 2019	ZASD	Future	1,200	10.2029	10.2723	0.0000	0.0000	0	0.00		
			<u>1,200</u>					<u>0.00</u>	<u>0.00</u>	<u>10 726.00</u>	<u>109 054 884.50</u>
		Total	1,200					0.00	0.00	10 726.00	109 054 884.50
Future											
Mar 2019	ZATR	Future	25,000	2.5567	2.5487	0.0000	0.0000	0	0.00		
			<u>25,000</u>					<u>0.00</u>	<u>0.00</u>	<u>420 239.00</u>	<u>1 320 654 069.00</u>
		Total	25,000					0.00	0.00	420 239.00	1 320 654 069.00
Future											
Mar 2019	ZAUM	Future	422	13.8501	13.9501	0.0000	0.0000	0	0.00		
Jun 2019	ZAUM	Future	5	13.9971	14.0977	14.0701	14.0455	10	14,057,800.00		
			<u>427</u>					<u>10.00</u>	<u>14,057,800.00</u>	<u>155 488.00</u>	<u>180 404 990 610.00</u>
		Total	427					10.00	14,057,800.00	160 011.00	180 404 990 610.00
Future											
Mar 2019	ZAUS	Future	543,881	13.8501	13.9501	13.9195	13.8350	50,055	695,013,962.60		
Jun 2019	ZAUS	Future	110,126	13.9971	14.0977	14.0550	14.0483	11	154,538.00		
Sep 2019	ZAUS	Future	14,290	14.1598	14.2613	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	Future	10,100	14.3154	14.4173	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	4,566	14.4878	14.5871	0.0000	0.0000	0	0.00		
			<u>682,963</u>					<u>50,066.00</u>	<u>695,168,500.60</u>	<u>194 199 042.00</u>	<u>2 340 680 848 592.70</u>
Option											
Mar 2019	ZAUS	10.33 Put	1,000	0.0606	0.0651	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	11.74 Put	1,000	1.4318	1.4943	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.47 Put	721	6.6932	6.0754	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.51 Put	720	7.7973	6.5916	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.80 Put	7,520	21.6309	17.6701	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.90 Put	16,000	29.7286	24.5450	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.92 Put	139,342	31.6170	26.1568	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.00 Put	15,434	40.1850	33.4986	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.05 Put	1,155	46.4389	38.8836	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.12 Put	138,000	56.4865	47.5743	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.15 Put	10,125	61.2901	51.7435	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.25 Put	225,407	82.3307	67.7650	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.33 Put	135,043	102.4931	84.9311	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.36 Put	134,750	110.8570	92.0955	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.46 Put	20,000	142.0233	119.0009	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.50 Put	17,050	155.9411	131.1120	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	13.55 Put	10,000	174.5281	147.3655	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>
Mar 2019	ZAUS	13.60 Put	6,570	194.4466	164.8830	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	202.7879	172.2466	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	229.0951	195.5725	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	238.2911	203.7632	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	247.6996	212.1589	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	262.2105	225.1409	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	282.2930	243.1741	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.82 Put	2,100	297.9010	257.2423	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	313.9744	271.7700	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	319.6788	276.7147	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	342.9952	297.0028	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	273.3524	323.5903	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	254.7962	302.6016	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	35,606	404.6962	352.5016	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	430.6762	376.5757	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	191.4856	230.2010	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	178.1354	214.7617	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	600.4550	535.8659	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	165.6735	200.2923	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	615.5735	550.1923	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	653.9545	586.6451	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	725.0052	654.4336	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	733.0471	662.1293	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	131.2153	159.9545	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	127.4380	155.5010	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	123.7669	151.1667	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	773.6669	701.0667	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	798.3575	724.7886	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	823.2168	748.7652	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	898.7904	822.1446	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	976.1705	897.1176	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	78.7584	98.2234	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	1037.4715	956.6983	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	1046.3024	965.2937	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	1055.1510	973.9093	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	1064.0170	982.5464	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	58.1476	73.3320	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1244.6331	1159.0744	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1299.8921	1213.2837	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1318.4073	1231.4660	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1327.6820	1240.5768	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	44.9912	57.2507	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>
Mar 2019	ZAUS	15.19 Put	41,300	1383.5596	1295.5135	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1392.9091	1304.7126	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	41.7383	53.2473	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	39.9057	50.9842	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1505.1015	1415.9854	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	30.4585	40.4577	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	27.8053	37.0555	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	27.3011	36.4074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	25.3706	33.9201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	23.5693	31.5909	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	18.8647	25.4684	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	14.2341	19.3785	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	13.7060	18.6795	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	12.2324	16.7227	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	9.9178	13.6312	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	7.7264	10.6805	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	7.0156	9.7181	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	5.5603	7.7372	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	4.7591	6.6403	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	3.2196	4.5182	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	3.0959	4.3467	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	2.7510	3.0014	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	2.7437	2.9912	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	2.7083	2.9417	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	2.6688	2.8864	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	2.6626	2.8774	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	2.6563	2.8687	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	2.5833	2.7646	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	2.5491	2.7153	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	2.4689	2.5964	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	2.3554	2.4096	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	1.1668	1.5462	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	3.2658	3.1683	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	42.7558	39.8269	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	92.9626	82.6366	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	139.9884	125.1993	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	144.7421	129.5213	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	210.7635	189.8710	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	1,282	213.8869	192.7379	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	461.7854	421.3342	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.88 Put	5,035	488.2867	446.3063	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	560.6493	616.2371	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	14.00 Put	143,900	554.9571	509.3440	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	596.6112	548.0923	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	677.5944	624.9946	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	709.9463	655.9584	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	401.7388	443.8176	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	355.8271	393.9270	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	975.5096	911.8218	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	990.3634	926.2112	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	296.7761	329.5369	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	240.6237	268.2398	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	204.5729	228.7072	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	145,182	178.5761	201.1174	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.62 Call	5,035	162.7673	183.6744	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	160.2796	180.9245	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	141.7713	160.4376	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	132.3755	150.0113	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.92 Call	911	129.3934	146.7000	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.00 Call	20	121.7927	138.2481	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	16.09 Call	6,800	113.8151	129.3656	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	17.96 Call	8,203	33.8475	40.8742	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	10.75 Put	1,000	7.3120	7.3302	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	12.50 Put	1,000	114.3344	104.9520	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.25 Put	3,900	305.3675	283.7036	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.91 Put	81,930	600.2926	560.9478	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	13.97 Put	800	632.9392	592.2068	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.09 Put	33,715	700.7450	657.2597	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.21 Put	2,700	771.8472	725.5913	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	14.33 Put	33,151	846.0957	797.1599	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.38 Put	5,000	1607.1125	1538.2804	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.56 Put	2,571	1753.3161	1682.0302	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	15.87 Call	1,000	298.5745	326.8859	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.23 Call	800	151.8961	166.6700	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.64 Call	5,000	130.4859	143.5436	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.85 Call	2,700	121.2883	133.5962	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	17.93 Call	2,571	118.0538	130.0972	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.29 Call	81,930	105.1129	116.0813	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.47 Call	1,200	97.2415	110.0111	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	18.63 Call	33,715	87.8185	102.3479	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	19.32 Call	33,151	56.0651	66.4026	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	11.89 Put	1,000	45.9980	42.6960	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	13.66 Put	1,000	535.4560	505.4458	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	14.07 Put	1,351	748.4012	709.0956	0.0000	0.0000	0	0.00

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Dec 2019	ZAUS	16.85	Call	1,351	305.9302	330.3031	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	17.38	Call	1,000	252.9933	270.8909	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00	Call	2,000	88.2861	98.2879	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	11.91	Put	1,000	63.3510	57.8523	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	14.01	Put	1,000	767.9919	733.6693	0.0000	0.0000	0	0.00	
Mar 2020	ZAUS	17.73	Call	1,000	353.0761	375.6644	0.0000	0.0000	0	0.00	
				<u>4,964,035</u>				<u>0.00</u>	<u>0.00</u>	<u>63 952 634.00</u>	<u>0.00</u>
	Total			5,646,998				50,066.00	695,168,500.60	258 151 676.00	2 340 680 848 592.70

Grand Total	6,970,640	59,448.00	856 334 784.00	353,059,412	3,290,767,779,103.23
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