



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 27-February-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Feb 2019	DAEU	Future	29	15.8440	15.7454	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	15.9367	15.8374	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	15.9917	15.8928	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	16.0273	15.9287	0.0000	0.0000	0	0.00		
			<u>87</u>					<u>0.00</u>	<u>0.00</u>	<u>816 079.00</u>	<u>12 203 675 785.40</u>
Option											
Aug 2019	DAEU	19.65 Call	62,400	95.1529	93.1415	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.65 Call	21,000	1160.5687	1112.4668	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.91 Call	15,000	1047.8948	1005.3176	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.00 Call	15,000	1011.5979	970.4965	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.07 Call	15,000	984.2347	944.3086	0.0000	0.0000	0	0.00		
			<u>128,400</u>					<u>0.00</u>	<u>0.00</u>	<u>1 749 987.00</u>	<u>0.00</u>
Total			128,487					0.00	0.00	2 566 066.00	12 203 675 785.40
Future											
Feb 2019	DAGB	Future	47	18.5474	18.2666	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.6385	18.3564	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	18.6922	18.4103	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	18.7269	18.4453	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	27	18.7364	18.4548	0.0000	0.0000	0	0.00		
			<u>317</u>					<u>0.00</u>	<u>0.00</u>	<u>66 877.00</u>	<u>1 121 639 544.20</u>
Total			317					0.00	0.00	274 190.00	1 121 639 544.20
Future											
Feb 2019	DAUS	Future	2,259	13.9209	13.8553	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	13.9274	13.8618	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	10,080	13.9290	13.8634	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.9652	13.8995	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,708	13.9685	13.9028	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	13.9752	13.9095	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>
Apr 2019	DAUS	Future	260	13.9969	13.9312	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	349	14.0152	13.9496	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	15	14.0202	13.9547	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	2,426	14.0219	13.9564	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	25,000	14.0375	13.9717	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	93	14.0444	13.9786	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	387	14.0722	14.0059	0.0000	0.0000	0	0.00
May 2019	DAUS	Future	416	14.0756	14.0094	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	74	14.0826	14.0164	0.0000	0.0000	0	0.00
Jun 2019	DAUS	Future	2,140	14.1249	14.0586	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	55	14.1302	14.0639	0.0000	0.0000	0	0.00
Jul 2019	DAUS	Future	682	14.1831	14.1163	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	55	14.1849	14.1181	0.0000	0.0000	0	0.00
Aug 2019	DAUS	Future	1,678	14.2359	14.1687	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	55	14.2412	14.1739	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	74	14.2448	14.1774	0.0000	0.0000	0	0.00
Sep 2019	DAUS	Future	53	14.2909	14.2230	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	55	14.2945	14.2265	0.0000	0.0000	0	0.00
Oct 2019	DAUS	Future	108	14.3460	14.2775	0.0000	0.0000	0	0.00
Nov 2019	DAUS	Future	52	14.3979	14.3287	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	55	14.4033	14.3340	0.0000	0.0000	0	0.00
Dec 2019	DAUS	Future	321	14.4069	14.3375	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.4590	14.3883	0.0000	0.0000	0	0.00
Jan 2020	DAUS	Future	55	14.5118	14.4410	0.0000	0.0000	0	0.00
Feb 2020	DAUS	Future	3,500	14.5619	14.4923	0.0000	0.0000	0	0.00
Mar 2020	DAUS	Future	55	14.5675	14.4977	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.6255	14.5536	0.0000	0.0000	0	0.00
Apr 2020	DAUS	Future	55	14.6760	14.6024	0.0000	0.0000	0	0.00
Jun 2020	DAUS	Future	1,055	14.7397	14.6643	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	14.8460	14.7710	0.0000	0.0000	0	0.00
			<u>143,140</u>					<u>0.00</u>	<u>0.00</u>
									<u>11 248 569.00</u>
									<u>138 655 959 007.50</u>
Option									
Feb 2019	DAUS	13.00 Put	500	0.0351	0.0741	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.70 Put	600	3.0134	14.8655	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	280.9118	350.2757	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Call	600	1.0892	4.2045	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	330.1892	398.9045	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	0.1086	1.1912	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.75 Call	600	0.0408	0.3299	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	0.0198	0.0271	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	0.0122	0.0222	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.40 Call	50,000	533.5222	470.7279	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	13.45 Put	100,000	6.0868	9.9226	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.50 Call	50,000	437.1898	376.7830	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Call	100,000	255.3234	205.2366	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Put	100,000	26.3234	41.8366	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Put	25,000	41.4176	61.5428	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	131.4672	178.4789	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	1.3923	1.5492	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.80 Call	30,000	276.9398	248.5756	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Call	30,000	109.8392	102.3097	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	171.4302	214.2957	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	234.7340	285.2894	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.84 Call	15,000	284.2648	0.0000	0.0000	0.0000	15,600	0.00
Mar 2019	DAUS	14.00 Call	6,500	205.4405	190.6575	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	9.0534	12.9172	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	44.1008	63.2664	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	273.7719	250.7729	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	374.4029	431.9493	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	410.8249	469.6539	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	95.6662	91.8004	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	55.5148	54.3885	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	11.3590	11.6390	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	4.7313	5.0062	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.00 Call	30,000	241.1955	225.5154	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	153.0022	188.8383	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	135.2075	129.1469	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	32.1315	40.9587	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	651.4790	613.4689	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	451.7660	506.4961	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	485.1326	541.0102	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	121.9720	120.3509	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	45.3461	46.1561	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	28.1453	29.3221	0.0000	0.0000	0	0.00
May 2019	DAUS	13.72 Call	50,000	539.7227	510.2147	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Call	50,000	312.3610	299.7342	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Call	61,000	339.2834	325.5639	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	122.5599	120.7002	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	95.5630	94.4081	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	69.5850	82.6075	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	524.8042	574.1893	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	556.5863	607.0004	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	188.4366	183.1626	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	92.4305	90.9681	0.0000	0.0000	0	0.00

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May 2019	DAUS	16.15 Call	250	66.7101	66.1763	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.83 Put	45,000	336.3159	374.2341	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.06 Put	18,000	454.2617	498.8650	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	506.4926	554.0015	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	18,000	568.5930	618.2411	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	93.4676	108.4610	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	560.4138	608.0799	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	591.3295	639.9889	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	224.3142	218.9364	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	121.4552	119.4615	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	92.1564	91.1788	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	119.3229	136.2271	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	593.7629	640.8104	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	623.9330	671.8831	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	263.4088	257.6200	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	153.6383	151.2075	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	121.0838	119.6483	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	780.6883	831.8118	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	151.2292	149.0482	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	141.4515	159.5651	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	620.2805	666.1801	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	649.3441	696.6330	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	290.8131	285.1774	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	177.5035	175.1288	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	142.6008	141.2990	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	50.2387	50.4758	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	162.4218	179.9204	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	645.2348	688.6301	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	674.0971	718.5991	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	323.0308	315.9401	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	205.5319	202.1938	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	167.3709	165.2214	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	183.1457	199.9615	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	668.6096	709.7364	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	697.2182	739.1918	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	347.5581	338.3951	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	229.8110	225.1546	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	191.0800	187.8319	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	200.8692	217.5303	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	686.8234	727.0915	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	715.2002	756.2837	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	370.1960	360.9771	0.0000	0.0000	0	0.00

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Nov 2019	DAUS	16.87 Call	250	251.9761	247.4458	0.0000	0.0000	0	0.00	
Nov 2019	DAUS	17.26 Call	250	212.7843	210.8208	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	13.00 Put	500	219.0111	235.2800	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.20 Put	250	704.5263	743.3526	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	14.25 Put	250	732.6529	772.2767	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	16.21 Call	500	393.1533	383.1180	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.05 Call	250	276.3640	271.0576	0.0000	0.0000	0	0.00	
Dec 2019	DAUS	17.44 Call	250	238.4364	236.5016	0.0000	0.0000	0	0.00	
			<u>1,066,594</u>					<u>15,600.00</u>	<u>0.00</u>	<u>23 525 913.00</u>
		Total	1,209,734					15,600.00	0.00	34 774 482.00
										138 655 959 007.50
Future										
Mar 2019	EUUS	Future	5	1.1398	1.1381	0.0000	0.0000	0	0.00	
Jun 2019	EUUS	Future	582	1.1483	1.1465	0.0000	0.0000	0	0.00	
			<u>587</u>					<u>0.00</u>	<u>0.00</u>	<u>745 402.00</u>
		Total	587					0.00	0.00	8 456 173 900.00
										745 402.00
Future										
Mar 2019	GBUS	Future	5	1.3335	1.3196	0.0000	0.0000	0	0.00	
Dec 2019	GBUS	Future	2,219	1.3508	1.3366	0.0000	0.0000	0	0.00	
			<u>2,224</u>					<u>0.00</u>	<u>0.00</u>	<u>176 160.00</u>
		Total	2,224					0.00	0.00	2 268 523 867.00
										176 160.00
Future										
Mar 2019	ZAAD	Future	4,731	9.9645	9.9372	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	15,741	10.0834	10.0565	0.0000	0.0000	0	0.00	
Sep 2019	ZAAD	Future	513	10.2161	10.1883	0.0000	0.0000	0	0.00	
Dec 2019	ZAAD	Future	400	10.3435	10.3140	0.0000	0.0000	0	0.00	
			<u>21,385</u>					<u>0.00</u>	<u>0.00</u>	<u>3 850 497.00</u>
		Total	22,385					0.00	0.00	33 738 285 873.60
										3 850 497.00
Option										
Dec 2019	ZAAD	11.00 Call	1,000	249.7320	244.6784	0.0000	0.0000	0	0.00	
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>
		Total	22,385					0.00	0.00	3 884 874.00
										33 738 285 873.60
Future										
Mar 2019	ZACA	Future	500	10.6183	10.5099	0.0000	0.0000	0	0.00	
Jun 2019	ZACA	Future	400	10.7540	10.6447	0.0000	0.0000	0	0.00	
Sep 2019	ZACA	Future	400	10.9017	10.7904	0.0000	0.0000	0	0.00	
			<u>1,300</u>					<u>0.00</u>	<u>0.00</u>	<u>150 863.00</u>
		Total	1,300					0.00	0.00	1 496 897 890.10
										150 863.00

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Future											
Jun 2019	ZADK	Future	250	2.1714	2.1579	0.0000	0.0000	0	0.00		
			<u>250</u>					<u>0.00</u>	<u>0.00</u>	<u>13 625.00</u>	<u>294 020 589.00</u>
		Total	250					0.00	0.00	13 625.00	294 020 589.00
Future											
Mar 2019	ZAEU	Future	137,653	15.9010	15.8021	15.8495	15.8214	2,322	36,879,154.00		
Jun 2019	ZAEU	Future	29,914	16.1910	16.0903	0.0000	0.0000	36	578,973.60		
Sep 2019	ZAEU	Future	21,578	16.5104	16.4079	0.0000	0.0000	3,204	52,948,663.20		
Dec 2019	ZAEU	Future	17,761	16.8160	16.7081	0.0000	0.0000	0	0.00		
			<u>206,906</u>					<u>5,562.00</u>	<u>90,406,790.80</u>	<u>16 217 161.00</u>	<u>234 344 981 677.70</u>
Option											
Mar 2019	ZAEU	16.00 Call	650	140.8753	116.8979	0.0000	0.0000	0	0.00		
Jun 2019	ZAEU	15.35 Put	570	162.1824	193.3003	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	15.62 Put	14,429	302.6514	339.2961	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.27 Call	14,429	280.9777	269.9637	0.0000	0.0000	0	0.00		
Sep 2019	ZAEU	18.60 Call	55,000	235.6999	227.2158	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	13.73 Put	17,150	38.6628	43.4609	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	16.15 Put	17,150	538.8919	590.5370	0.0000	0.0000	0	0.00		
Dec 2019	ZAEU	20.62 Call	17,150	214.8382	215.9402	0.0000	0.0000	0	0.00		
			<u>136,528</u>					<u>0.00</u>	<u>0.00</u>	<u>11 001 383.00</u>	<u>0.00</u>
		Total	343,434					5,562.00	90,406,790.80	27 218 544.00	234 344 981 677.70
Future											
Mar 2019	ZAFR	Future	1,243	13.9895	13.9019	0.0000	0.0000	0	0.00		
Jun 2019	ZAFR	Future	250	14.2577	14.1685	0.0000	0.0000	0	0.00		
			<u>1,493</u>					<u>0.00</u>	<u>0.00</u>	<u>627 180.00</u>	<u>6 762 982 219.60</u>
		Total	1,493					0.00	0.00	627 180.00	6 762 982 219.60
Future											
Mar 2019	ZAGB	Future	239,314	18.6034	18.3220	18.5500	18.4250	92,143	1,695,865,765.40		
Jun 2019	ZAGB	Future	5,703	18.8857	18.6014	18.8585	18.7165	4,005	74,969,839.00		
Sep 2019	ZAGB	Future	17,844	19.1925	18.9036	0.0000	0.0000	0	0.00		
Dec 2019	ZAGB	Future	12,565	19.4820	19.1851	0.0000	0.0000	0	0.00		
			<u>275,426</u>					<u>96,148.00</u>	<u>1,770,835,604.40</u>	<u>14 055 895.00</u>	<u>240 595 089 963.50</u>
Option											
Mar 2019	ZAGB	18.00 Put	500	48.7072	109.7743	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.00 Call	2,500	93.1512	54.1546	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	19.19 Put	1,000	644.4704	902.0526	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.00 Call	500	10.2325	8.2261	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	20.18 Call	1,500	7.8669	6.3115	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Mar 2019	ZAGB	21.44 Call	500	1.3931	1.1706	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	18.00 Call	1,000	1142.3639	951.8065	0.0000	0.0000	0	0.00		
			7,500					0.00	0.00	1 784 813.00	0.00
		Total	282,926					96,148.00	1,770,835,604.40	15 840 708.00	240 595 089 963.50
Future											
Mar 2019	ZAJY	Future	10,000	0.1261	0.1255	0.0000	0.0000	0	0.00		
			10,000					0.00	0.00	1 091 937.00	12 363 272 053.60
		Total	10,000					0.00	0.00	1 091 937.00	12 363 272 053.60
Future											
Jun 2019	ZAKS	Future	2,166	0.1389	0.1374	0.0000	0.0000	0	0.00		
			2,166					0.00	0.00	38 066.00	515 662 000.00
		Total	2,166					0.00	0.00	38 066.00	515 662 000.00
Future											
Sep 2019	ZANZ	Future	646	9.8042	9.8037	0.0000	0.0000	0	0.00		
			646					0.00	0.00	146 792.00	1 127 677 204.60
		Total	646					0.00	0.00	166 792.00	1 127 677 204.60
Future											
Mar 2019	ZATR	Future	25,000	2.6009	2.5894	0.0000	0.0000	0	0.00		
			25,000					0.00	0.00	445 935.00	1 387 108 669.90
		Total	25,000					0.00	0.00	445 935.00	1 387 108 669.90
Future											
Mar 2019	ZAUM	Future	440	13.9504	13.8846	13.8987	13.8987	15	20,819,350.00		
			440					15.00	20,819,350.00	155 753.00	180 777 573 190.00
		Total	440					15.00	20,819,350.00	160 276.00	180 777 573 190.00
Future											
Mar 2019	ZAUS	Future	765,166	13.9504	13.8846	13.9582	13.8664	124,671	1,732,119,709.80		
Jun 2019	ZAUS	Future	110,440	14.1002	14.0340	14.0626	14.0326	3,578	50,275,582.40		
Sep 2019	ZAUS	Future	22,822	14.2661	14.1984	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	Future	10,863	14.4230	14.3531	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	4,566	14.5937	14.5230	0.0000	0.0000	0	0.00		
			913,857					128,249.00	1,782,395,292.20	196 900 844.00	2 378 195 452 227.00
Option											
Mar 2019	ZAUS	10.33 Put	1,000	0.0000	0.0000	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	11.74 Put	1,000	0.0805	0.1072	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.47 Put	721	0.7474	1.2024	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	12.51 Put	720	0.8506	1.3617	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	7,520	1.9411	2.6770	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	2.6076	3.4566	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	2.7697	3.6435	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	3.5407	4.5234	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	4.1433	5.2029	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	5.1882	6.3697	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	5.7232	6.9633	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	225,407	8.0063	11.2174	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	12.7350	18.1070	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	15.0275	21.4230	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	25.2650	35.9952	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Call	145	481.0843	428.1564	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	7,550	30.6843	43.5564	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	38.7152	54.5839	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Call	500	398.7015	352.0951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	48.3015	67.4951	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	52.6081	73.2165	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	67.2785	92.3733	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	72.7835	99.4430	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	78.6106	106.8604	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	101.6530	135.6143	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.82 Put	2,100	112.8370	149.2767	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	124.8322	163.7439	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	129.0132	168.7450	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	146.6612	189.6308	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	171.2116	154.0109	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	150.3873	135.8414	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	29,200	199.9873	251.2414	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	224.9205	278.0888	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	87.5597	80.8300	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	76.1709	70.7746	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	399.6242	460.7262	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	66.1910	61.9202	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	415.7910	477.3202	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	457.0684	519.5424	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	534.0981	597.8822	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	542.8482	606.7507	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	42.0338	40.2499	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	39.7042	38.1347	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	37.5032	36.1316	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	587.1032	651.5316	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.53 Put	108	614.0283	678.7228	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	641.2067	706.1344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	724.0688	789.0806	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	808.0074	873.3110	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	15.2006	14.8373	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	874.3217	939.7768	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	883.8577	949.3300	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	893.4075	958.8966	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	902.9715	968.4761	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	7.9833	7.8467	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1096.6142	1162.2988	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1155.3761	1221.0838	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1175.0141	1240.7279	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1184.8417	1250.5582	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	4.6054	4.5311	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1243.9170	1309.6465	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1253.7797	1319.5109	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	3.9180	3.8526	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	3.5564	3.4958	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1372.4384	1438.3598	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	2.2869	2.4591	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	2.0347	2.1961	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	1.9883	2.1475	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	3,050	1.8145	1.9652	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	1.6583	1.8007	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	1.2770	1.3962	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	0.9379	1.0324	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	0.9014	0.9930	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	0.8018	0.8852	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	0.6521	0.7222	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	0.5173	0.5744	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	0.4749	0.5277	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	0.3898	0.4336	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	0.3437	0.3825	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	0.2560	0.2847	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	0.2490	0.2768	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	0.1977	0.2524	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	0.1975	0.2524	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	0.1966	0.2521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	0.1957	0.2521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	0.1956	0.2521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	0.1955	0.2521	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	17.23 Call	41,300	0.1945	0.2530	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	0.1943	0.2539	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	0.1951	0.2579	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	0.2042	0.2761	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	0.1106	0.1174	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	1.7095	1.8653	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	22.1786	25.2008	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	38.3235	43.9143	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	46.6363	55.7520	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	78.5186	92.1060	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	81.9089	95.9299	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.10 Put	14,000	100.4936	116.7853	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	131.3906	151.1091	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	133.8262	153.7996	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.30 Put	143,800	146.4840	167.7446	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.35 Put	4,317	159.9461	182.5215	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.50 Call	7,500	807.6411	769.4482	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	744.5411	709.3551	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	343.2090	381.0377	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	577.3243	550.9527	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	538.2131	514.0682	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	23,500	528.7824	505.1858	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	428.5824	471.1858	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	466.6646	511.4736	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	543.7395	592.0217	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	575.0602	624.3707	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	607.1438	657.4448	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	390.1724	375.2205	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	367.3305	353.6416	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	320.0579	308.9686	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	836.3986	892.2445	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	851.1814	907.3114	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	260.5985	252.6193	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	17,500	223.6246	217.4354	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	205.5664	200.2210	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	174.0703	170.1472	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	171.2292	167.4291	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	145,182	147.8814	144.6491	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.60 Call	143,800	135.6982	132.9389	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	131.1304	128.5446	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	114.4555	112.4831	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	106.1027	104.4244	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	15.92 Call	911	103.4680	101.8807	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	96.7913	95.4265	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	89.8447	88.7049	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	23.0585	23.7545	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	6.1520	6.4167	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	73.9280	82.4067	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.15 Put	11,333	190.1993	210.9306	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	218.1134	240.8508	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.65 Call	5,666	974.6876	939.5945	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.70 Put	2,000	380.2112	413.9456	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.77 Put	28,500	411.6683	446.9719	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	509.0057	548.6656	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.00 Put	1,000	524.5378	564.8314	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.12 Put	177	589.0192	631.7834	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	639.7885	684.3922	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.50 Call	14,000	584.5224	566.4220	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.65 Put	3,000	918.2870	970.0320	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.00 Call	750	434.3739	423.0933	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.03 Call	177	426.9187	415.9640	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1463.8635	1523.8961	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.51 Call	28,500	325.6009	318.9528	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1610.6742	1672.0904	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	265.5657	259.6989	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	126.4497	126.0573	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	107.9977	108.1550	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	100.1833	100.5555	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	97.4529	97.8966	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	81.9852	82.1669	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	32.7292	36.7312	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	427.1771	455.2255	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.80 Put	500	489.2370	521.2177	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	624.3933	661.3789	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.20 Call	500	364.9459	356.4442	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	274.2628	269.0525	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	221.4270	219.9709	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	76.0575	74.7369	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	33.7410	38.6949	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	645.5932	679.3217	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	315.6184	311.9934	0.0000	0.0000	0	0.00		
			<u>5,059,944</u>					<u>0.00</u>	<u>0.00</u>	<u>65 615 265.00</u>	<u>0.00</u>
	Total		5,973,801					128,249.00	1,782,395,292.20	262 516 109.00	2 378 195 452 227.00

<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>
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Grand Total		8,005,190					245,574.00	3 664 457 037.40	359,450,741	3,297,713,271,376.53
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