



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 26-February-2019

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Future											
Feb 2019	DAEU	Future	29	15.7454	15.7224	0.0000	0.0000	0	0.00		
Mar 2019	DAEU	Future	53	15.8374	15.8145	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	4	15.8928	15.8699	0.0000	0.0000	0	0.00		
Apr 2019	DAEU	Future	1	15.9287	15.9058	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	93.1415	97.5449	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.65 Call	21,000	1112.4668	1117.0538	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	16.91 Call	15,000	1005.3176	1011.3675	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.00 Call	15,000	970.4965	976.8668	0.0000	0.0000	0	0.00		
Feb 2020	DAEU	17.07 Call	15,000	944.3086	950.9082	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	18.2666	18.0925	0.0000	0.0000	0	0.00		
Mar 2019	DAGB	Future	80	18.3564	18.1816	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	43	18.4103	18.2349	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	120	18.4453	18.2695	0.0000	0.0000	0	0.00		
Apr 2019	DAGB	Future	27	18.4548	18.2789	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	13.8553	13.8461	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	13.8618	13.8526	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	10,080	13.8634	13.8542	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	13.8995	13.8904	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,708	13.9028	13.8937	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	13.9095	13.9004	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	13.9312	13.9220	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	349	13.9496	13.9403	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	15	13.9547	13.9454	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	2,426	13.9564	13.9471	0.0000	0.0000	262	3,657,127.00		
May 2019	DAUS	Future	25,000	13.9717	13.9625	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	93	13.9786	13.9694	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	387	14.0059	13.9968	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	416	14.0094	14.0003	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.0164	14.0073	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	2,140	14.0586	14.0491	0.0000	0.0000	320	4,499,744.00		
Jul 2019	DAUS	Future	55	14.0639	14.0543	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	682	14.1163	14.1067	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.1181	14.1084	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	1,678	14.1687	14.1592	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.1739	14.1644	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.1774	14.1679	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	53	14.2230	14.2133	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.2265	14.2168	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	108	14.2775	14.2677	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	Future	52	14.3287	14.3189	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.3340	14.3242	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.3375	14.3278	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.3883	14.3792	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.4410	14.4300	0.0000	0.0000	0	0.00		
Feb 2020	DAUS	Future	3,500	14.4923	14.4800	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.4977	14.4854	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.5536	14.5412	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	14.6024	14.5897	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	14.6643	14.6519	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	14.7710	14.7603	0.0000	0.0000	0	0.00		
			<u>143,140</u>					<u>582.00</u>	<u>8,156,871.00</u>	<u>11 248 569.00</u>	<u>138 655 959 007.50</u>
Option											
Feb 2019	DAUS	13.00 Put	500	0.0741	0.1502	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	13.70 Put	600	14.8655	28.5419	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	14.20 Put	250	350.2757	364.7840	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	14.25 Call	600	4.2045	8.4832	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	14.25 Put	250	398.9045	412.3832	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	14.52 Call	500	1.1912	2.5793	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	14.75 Call	600	0.3299	0.6897	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	15.27 Call	250	0.0271	0.0371	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	15.63 Call	250	0.0222	0.0298	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	13.40 Call	50,000	470.7279	466.9633	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	9.9226	16.8078	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.50 Call	50,000	376.7830	376.1813	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Call	100,000	205.2366	213.6389	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Put	100,000	41.8366	59.4389	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.70 Put	25,000	61.5428	78.6046	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	178.4789	200.7072	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.15 Call	27,500	1.5492	2.3670	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.80 Call	30,000	248.5756	258.2944	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Call	30,000	102.3097	112.5023	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.88 Put	32,000	214.2957	233.9458	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	285.2894	305.4481	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Call	6,500	190.6575	0.0000	0.0000	0.0000	13,000	0.00
Mar 2019	DAUS	13.00 Put	500	12.9172	16.8075	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.45 Put	600	63.2664	75.3697	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.87 Call	600	250.7729	260.9377	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	431.9493	451.4852	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	469.6539	488.9511	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.40 Call	600	91.8004	101.0551	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	54.3885	61.6188	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	11.6390	14.2507	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	5.0062	6.2654	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.00 Call	30,000	225.5154	235.8773	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	188.8383	206.3738	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	129.1469	138.6947	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	40.9587	47.4758	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	613.4689	619.4333	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	506.4961	527.2152	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	541.0102	561.6750	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	120.3509	129.3979	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	46.1561	51.5450	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	29.3221	33.4861	0.0000	0.0000	0	0.00
May 2019	DAUS	13.72 Call	50,000	510.2147	520.9606	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Call	50,000	299.7342	312.6933	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Call	61,000	325.5639	340.1598	0.0000	0.0000	0	0.00
May 2019	DAUS	15.25 Call	40,000	120.7002	130.7046	0.0000	0.0000	0	0.00
May 2019	DAUS	15.50 Call	21,000	94.4081	103.1085	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	82.6075	93.5671	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	574.1893	595.4246	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	607.0004	628.2279	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	183.1626	193.0981	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	90.9681	97.6863	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	66.1763	71.6409	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	13.83 Put	45,000	374.2341	393.4542	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.06 Put	18,000	498.8650	519.6214	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.15 Put	18,000	554.0015	574.8192	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	18,000	618.2411	639.0226	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	108.4610	119.0203	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	608.0799	627.5106	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	639.9889	659.4730	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	218.9364	227.4681	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	119.4615	125.6396	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	91.1788	96.3781	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	136.2271	146.2677	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	640.8104	658.4985	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	671.8831	689.6598	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	257.6200	265.2579	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	151.2075	156.7338	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	119.6483	124.4945	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	831.8118	849.2508	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	149.0482	154.2899	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	159.5651	169.3081	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	666.1801	683.2563	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	696.6330	713.8029	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	285.1774	292.6126	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	175.1288	181.0802	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	141.2990	146.5594	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	50.4758	52.1084	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	179.9204	191.0161	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	688.6301	707.0074	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	718.5991	737.0753	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	315.9401	324.2669	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	202.1938	208.9916	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	165.2214	171.2785	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	199.9615	212.3846	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	709.7364	729.6411	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	739.1918	759.2801	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	338.3951	347.6894	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	225.1546	233.0399	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	187.8319	195.0205	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	217.5303	231.0501	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	727.0915	748.1499	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	756.2837	777.5249	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	360.9771	371.2308	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	247.4458	255.9401	0.0000	0.0000	0	0.00

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Nov 2019	DAUS	17.26 Call	250	210.8208	218.5523	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	235.2800	249.6002	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	743.3526	764.8562	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	772.2767	793.9327	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	383.1180	394.4288	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	271.0576	280.5680	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	236.5016	245.2457	0.0000	0.0000	0	0.00		
			<u>1,051,594</u>					<u>13,000.00</u>	<u>0.00</u>	<u>23 510 313.00</u>	<u>0.00</u>
	Total		1,194,734					13,582.00	8,156,871.00	34 758 882.00	138 655 959 007.50
Future											
Mar 2019	EUUS	Future	5	1.1381	1.1372	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1465	1.1457	0.0000	0.0000	0	0.00		
			<u>587</u>					<u>0.00</u>	<u>0.00</u>	<u>745 402.00</u>	<u>8 456 173 900.00</u>
	Total		587					0.00	0.00	745 402.00	8 456 173 900.00
Future											
Mar 2019	GBUS	Future	5	1.3196	1.3079	0.0000	0.0000	0	0.00		
Dec 2019	GBUS	Future	2,219	1.3366	1.3249	0.0000	0.0000	0	0.00		
			<u>2,224</u>					<u>0.00</u>	<u>0.00</u>	<u>176 160.00</u>	<u>2 268 523 867.00</u>
	Total		2,224					0.00	0.00	176 160.00	2 268 523 867.00
Future											
Mar 2019	ZAAD	Future	4,731	9.9372	9.9639	0.0000	0.0000	0	0.00		
Jun 2019	ZAAD	Future	15,741	10.0565	10.0838	0.0000	0.0000	0	0.00		
Sep 2019	ZAAD	Future	513	10.1883	10.2160	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.3140	10.3429	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>	<u>33 738 285 873.60</u>
Option											
Dec 2019	ZAAD	11.00 Call	1,000	244.6784	261.0352	0.0000	0.0000	0	0.00		
			<u>1,000</u>					<u>0.00</u>	<u>0.00</u>	<u>34 377.00</u>	<u>0.00</u>
	Total		22,385					0.00	0.00	3 884 874.00	33 738 285 873.60
Future											
Mar 2019	ZACA	Future	500	10.5099	10.5484	0.0000	0.0000	0	0.00		
Jun 2019	ZACA	Future	400	10.6447	10.6843	0.0000	0.0000	0	0.00		
Sep 2019	ZACA	Future	400	10.7904	10.8311	0.0000	0.0000	0	0.00		
			<u>1,300</u>					<u>0.00</u>	<u>0.00</u>	<u>150 863.00</u>	<u>1 496 897 890.10</u>
	Total		1,300					0.00	0.00	150 863.00	1 496 897 890.10

Future

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Jun 2019	ZADK	Future	250	2.1579	2.1547	0.0000	0.0000	0	0.00	
			250					0.00	0.00	13 625.00
		Total	250					0.00	0.00	13 625.00
Future										
Mar 2019	ZAEU	Future	139,331	15.8021	15.7789	15.8209	15.7930	96	1,518,185.50	
Jun 2019	ZAEU	Future	29,914	16.0903	16.0675	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	Future	21,578	16.4079	16.3850	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	Future	17,761	16.7081	16.6860	0.0000	0.0000	0	0.00	
			208,584					96.00	1,518,185.50	16 211 599.00
Option										
Mar 2019	ZAEU	16.00 Call	650	116.8979	124.5112	0.0000	0.0000	650	0.00	
Jun 2019	ZAEU	15.35 Put	570	193.3003	0.0000	0.0000	0.0000	570	0.00	
Sep 2019	ZAEU	15.62 Put	14,429	339.2961	362.7957	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.27 Call	14,429	269.9637	277.4218	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	18.60 Call	55,000	227.2158	234.2367	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	13.73 Put	17,150	43.4609	44.7699	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	16.15 Put	17,150	590.5370	616.0376	0.0000	0.0000	0	0.00	
Dec 2019	ZAEU	20.62 Call	17,150	215.9402	223.3714	0.0000	0.0000	0	0.00	
			136,528					1,220.00	0.00	11 001 383.00
		Total	345,112					1,316.00	1,518,185.50	27 212 982.00
Future										
Mar 2019	ZAFR	Future	1,243	13.9019	13.8924	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	250	14.1685	14.1593	0.0000	0.0000	0	0.00	
			1,493					0.00	0.00	627 180.00
		Total	1,493					0.00	0.00	627 180.00
Future										
Mar 2019	ZAGB	Future	326,192	18.3220	18.1472	0.0000	0.0000	4,486	82,161,762.60	
Jun 2019	ZAGB	Future	5,703	18.6014	18.4238	0.0000	0.0000	0	0.00	
Sep 2019	ZAGB	Future	17,844	18.9036	18.7234	0.0000	0.0000	0	0.00	
Dec 2019	ZAGB	Future	12,565	19.1851	19.0038	0.0000	0.0000	0	0.00	
			362,304					4,486.00	82,161,762.60	13 959 747.00
Option										
Mar 2019	ZAGB	18.00 Put	500	109.7743	180.0478	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.00 Call	2,500	54.1546	41.6374	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	19.19 Put	1,000	902.0526	1071.4331	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.00 Call	500	8.2261	7.4613	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	20.18 Call	1,500	6.3115	5.6383	0.0000	0.0000	0	0.00	
Mar 2019	ZAGB	21.44 Call	500	1.1706	1.1249	0.0000	0.0000	0	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Jun 2019	ZAGB	18.00 Call	1,000	951.8065	842.3962	0.0000	0.0000	0	0.00		
			7,500					0.00	0.00	1 784 813.00	0.00
		Total	369,804					4,486.00	82,161,762.60	15 744 560.00	238 824 254 359.10
Future											
Mar 2019	ZAJY	Future	10,000	0.1255	0.1254	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	0.1374	0.1381	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	9.8037	9.8108	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	2.5894	2.5833	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	445	13.8846	13.8753	13.9015	13.8894	25	34,756,400.00		
Jun 2019	ZAUM	Future	0	14.0340	14.0247	14.0529	14.0529	5	7,026,450.00		
			445					30.00	41,782,850.00	155 738.00	180 756 753 840.00
		Total	445					30.00	41,782,850.00	160 261.00	180 756 753 840.00
Future											
Mar 2019	ZAUS	Future	779,784	13.8846	13.8753	13.9216	13.8647	102,547	1,424,642,052.20		
Jun 2019	ZAUS	Future	109,792	14.0340	14.0247	14.0787	14.0260	3,683	51,764,857.00		
Sep 2019	ZAUS	Future	22,822	14.1984	14.1889	0.0000	0.0000	212	3,010,082.00		
Dec 2019	ZAUS	Future	10,863	14.3531	14.3439	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	Future	4,566	14.5230	14.5106	0.0000	0.0000	0	0.00		
			927,827					106,442.00	1,479,416,991.20	196 772 595.00	2 376 413 056 934.80
Option											
Mar 2019	ZAUS	10.33 Put	1,000	0.0000	0.0129	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	11.74 Put	1,000	0.1072	0.1341	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	12.47 Put	721	1.2024	1.8012	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	1.3617	2.0400	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	7,520	2.6770	3.5980	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	3.4566	4.4743	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	3.6435	4.6810	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	4.5234	5.6405	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	5.2029	6.3689	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	6.3697	7.6013	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	6.9633	8.2209	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	225,407	11.2174	13.1441	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	18.1070	21.3863	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	21.4230	25.3265	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	35.9952	42.4273	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Call	145	428.1564	426.4718	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	7,550	43.5564	51.1718	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	54.5839	63.7872	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Call	500	352.0951	353.6743	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	6,570	67.4951	78.3743	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	73.2165	84.7805	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	92.3733	106.0103	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	99.4430	113.7661	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	106.8604	121.8641	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	135.6143	152.9041	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.82 Put	2,100	149.2767	167.4835	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	163.7439	182.8168	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	168.7450	188.0947	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	189.6308	210.0180	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.95 Call	1,000	154.0109	165.4067	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	135.8414	147.3778	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	29,200	251.2414	272.0778	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	278.0888	298.9285	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	80.8300	91.6333	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	70.7746	81.1698	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	460.7262	480.1513	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	61.9202	71.8571	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Put	3,000	477.3202	496.5571	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	519.5424	538.2824	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	597.8822	615.6800	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	606.7507	624.4432	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	40.2499	48.5356	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	38.1347	46.2077	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	225,780	36.1316	43.9924	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	50	651.5316	668.6924	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.53 Put	108	678.7228	695.5680	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	706.1344	722.5246	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	789.0806	803.8694	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,325	873.3110	887.0718	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	14.8373	18.6924	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	939.7768	952.8375	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	949.3300	962.2980	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	958.8966	971.7733	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	968.4761	981.2637	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	7.8467	10.1289	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1162.2988	1173.6410	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1221.0838	1232.1062	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1240.7279	1251.6537	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1250.5582	1261.4374	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	4.5311	5.9360	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1309.6465	1320.2706	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1319.5109	1330.0961	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.22 Call	2,785	3.8526	5.0632	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	3.4958	4.6020	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1438.3598	1448.6113	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	2.4591	3.2614	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	2.1961	2.9177	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	2.1475	2.8541	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	3,050	1.9652	2.6149	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	1.8007	2.3984	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	1.3962	1.8631	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	1.0324	1.3779	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	0.9930	1.3251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	0.8852	1.1805	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	0.7222	0.9612	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	0.5744	0.7619	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.18 Call	1,800	0.5277	0.6987	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	0.4336	0.5715	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	0.3825	0.5023	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	0.2847	0.3700	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	0.2768	0.3594	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	0.2524	0.3402	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	0.2524	0.3405	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	0.2521	0.3422	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	0.2521	0.3445	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	0.2521	0.3449	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	0.2521	0.3454	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	17.23 Call	41,300	0.2530	0.3514	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	0.2539	0.3551	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	0.2579	0.3676	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	0.2761	0.4093	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	0.1174	0.1836	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	1.8653	2.2688	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	25.2008	28.1328	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.65 Put	1,050	43.9143	50.7717	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	55.7520	63.6810	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	92.1060	102.5580	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	165,703	95.9299	106.6029	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.10 Put	14,000	116.7853	128.5616	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	151.1091	164.3804	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.25 Put	4,582	153.7996	167.1764	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.30 Put	143,800	167.7446	181.6308	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.35 Put	4,317	182.5215	0.0000	0.0000	0.0000	4,317	0.00
Jun 2019	ZAUS	13.50 Call	7,500	769.4482	776.9088	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.60 Call	700	709.3551	717.5678	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	381.0377	399.8130	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.90 Call	100	550.9527	560.6880	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	514.0682	524.0325	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Call	23,500	505.1858	515.1962	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.00 Put	301,700	471.1858	490.4962	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.07 Put	39,589	511.4736	531.7573	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.20 Put	13,600	592.0217	612.3964	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.25 Put	1,282	624.3707	644.7378	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.30 Put	30,000	657.4448	677.7831	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.35 Call	1,050	375.2205	386.2100	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	353.6416	364.5331	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	308.9686	319.5170	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.63 Put	8,203	892.2445	911.9599	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.65 Put	1,000	907.3114	926.9712	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.82 Call	30,000	252.6193	262.4807	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.00 Call	17,500	217.4354	226.7324	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.10 Call	1,500	200.2210	209.1828	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.30 Call	14,000	170.1472	178.4032	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.32 Call	1,980	167.4291	175.6143	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.50 Call	145,182	144.6491	152.2130	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.60 Call	143,800	132.9389	140.1727	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.64 Call	39,589	128.5446	135.6485	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.80 Call	1,000	112.4831	119.0685	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	15.89 Call	6,800	104.4244	110.7237	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	15.92 Call	911	101.8807	108.0884	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	95.4265	101.3894	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.09 Call	6,800	88.7049	94.3973	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	23.7545	26.7949	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	6.4167	6.7835	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	82.4067	87.2147	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.15 Put	11,333	210.9306	222.3406	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	240.8508	253.0314	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.65 Call	5,666	939.5945	945.0881	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.70 Put	2,000	413.9456	429.2545	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.77 Put	28,500	446.9719	462.6933	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	548.6656	565.4208	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.00 Put	1,000	564.8314	581.7239	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.12 Put	177	631.7834	649.1871	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	684.3922	702.1123	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.50 Call	14,000	566.4220	575.1252	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.65 Put	3,000	970.0320	988.3462	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.00 Call	750	423.0933	0.0000	0.0000	0.0000	750	0.00		
Sep 2019	ZAUS	15.03 Call	177	415.9640	424.6919	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1523.8961	1541.6975	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.51 Call	28,500	318.9528	327.0491	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1672.0904	1689.6066	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	259.6989	267.1773	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	126.0573	131.0639	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	108.1550	112.6362	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	100.5555	104.7925	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	97.8966	102.0467	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	82.1669	85.7735	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	36.7312	37.8237	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	455.2255	473.7930	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.80 Put	500	521.2177	540.5621	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	14.07 Put	1,351	661.3789	681.9425	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.20 Call	500	356.4442	367.0381	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	16.85 Call	1,351	269.0525	278.2737	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	219.9709	228.1453	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	74.7369	78.8452	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	38.6949	38.9890	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	679.3217	703.3887	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	311.9934	323.8233	0.0000	0.0000	0	0.00		
			<u>5,059,944</u>					<u>5,067.00</u>	<u>0.00</u>	<u>65 615 265.00</u>	<u>0.00</u>
	Total		5,987,771					111,509.00	1,479,416,991.20	262 387 860.00	2 376 413 056 934.80

<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		8,092,721					130,923.00	1 613 036 660.30	359,205,167	3,294,048,814,339.13
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