



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 12-December-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Feb 2019	DAEU	Future	26	16.3526	16.5422	0.0000	0.0000	0	0.00
Mar 2019	DAEU	Future	53	16.4039	16.5939	0.0000	0.0000	0	0.00
			<u>79</u>					<u>0.00</u>	<u>0.00</u>
									<u>801 552.00</u>
									<u>11 969 588 805.00</u>
Option									
Dec 2018	DAEU	15.83 Put	32,000	74.2556	46.4969	0.0000	0.0000	0	0.00
Jan 2019	DAEU	15.85 Put	13,000	122.4788	81.9499	0.0000	0.0000	0	0.00
Aug 2019	DAEU	17.01 Put	16,200	988.5126	887.7913	0.0000	0.0000	0	0.00
Aug 2019	DAEU	19.65 Call	62,400	322.2050	361.6504	0.0000	0.0000	0	0.00
			<u>123,600</u>					<u>0.00</u>	<u>0.00</u>
		Total	123,679					0.00	0.00
									<u>2 312 139.00</u>
									<u>11 969 588 805.00</u>
Future									
Jan 2019	DAGB	Future	27	18.0346	18.2110	0.0000	0.0000	0	0.00
Feb 2019	DAGB	Future	47	18.1199	18.2967	0.0000	0.0000	0	0.00
Mar 2019	DAGB	Future	80	18.2106	18.3878	0.0000	0.0000	0	0.00
			<u>154</u>					<u>0.00</u>	<u>0.00</u>
		Total	154					0.00	0.00
									<u>261 447.00</u>
									<u>892 317 851.50</u>
Future									
Dec 2018	DAUS	Future	0	14.1628	14.3600	0.0000	0.0000	3,672	52,005,801.60
Dec 2018	DAUS	Future	160	14.1720	14.3693	0.0000	0.0000	0	0.00
Dec 2018	DAUS	Future	1,952	14.1881	14.3872	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.1919	14.3908	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	150	14.2166	14.4140	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	20	14.2183	14.4158	0.0000	0.0000	8	114,922.40
Jan 2019	DAUS	Future	51	14.2337	14.4314	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	55	14.2423	14.4400	0.0000	0.0000	0	0.00
Jan 2019	DAUS	Future	1,655	14.2441	14.4418	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	14.2664	14.4643	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	6	14.2698	14.4678	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	Future	15	14.2874	14.4854	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,025	14.2926	14.4906	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	74	14.2997	14.4977	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	80	14.3014	14.4994	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.3403	14.5386	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,356	14.3439	14.5422	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.3510	14.5494	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,580	14.4007	14.5997	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	875	14.4558	14.6554	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	74	14.4629	14.6626	0.0000	0.0000	0	0.00		
Jun 2019	DAUS	Future	505	14.5063	14.7067	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.5118	14.7122	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.5685	14.7698	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.6270	14.8293	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	74	14.6307	14.8330	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.6822	14.8857	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	14.7358	14.9405	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	14.7950	15.0011	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	321	14.7987	15.0049	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.8552	15.0637	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	14.9145	15.1244	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	14.9778	15.1893	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.0412	15.2542	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.0963	15.3107	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.1658	15.3819	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.2802	15.4991	0.0000	0.0000	0	0.00		
			<u>106,599</u>					<u>3,680.00</u>	<u>52,120,724.00</u>	<u>10 973 604.00</u>	<u>134 816 360 573.50</u>
Option											
Dec 2018	DAUS	13.90 Put	35,000	62.1368	31.1758	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.98 Put	18,000	85.8334	46.1626	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.30 Put	35,000	244.0459	156.0402	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.90 Put	35,000	744.5315	577.8815	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.30 Put	35,000	1133.6343	946.6445	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.20 Put	1,000	2.6233	3.6164	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.30 Put	1,000	3.6473	4.3431	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.10 Put	25,000	142.1481	83.2404	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.66 Call	1,000	44.1060	100.1199	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.75 Call	1,000	33.2940	79.5221	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.00 Put	500	5.9217	5.4872	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.80 Put	1,000	81.2623	49.5860	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.22 Call	500	225.5061	344.8240	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	14.25 Put	250	275.0627	190.9808	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 2018	DAUS	14.96 Put	250	821.9914	664.1899	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	0.8731	1.8291	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	0.5881	0.9588	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.57 Put	600	41.2260	28.8544	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.93 Call	600	399.3049	550.5419	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.35 Call	600	194.6433	294.7575	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.64 Put	250	63.4105	40.8994	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.12 Call	250	312.9647	440.9458	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.65 Call	250	129.4728	197.9074	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.86 Put	174	151.3035	103.0057	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.00 Call	174	423.4378	559.3205	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	4.0295	3.9143	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	21.5246	12.5223	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	357.1756	273.9255	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	384.5735	297.1979	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	326.9217	424.5077	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	136.0276	184.7761	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	90.3108	124.9569	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	52.0229	38.1664	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	428.8615	343.8852	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	456.0199	367.6868	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	392.3301	481.9192	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	200.1355	251.8202	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	145.1242	184.0315	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.94 Put	27,500	324.3064	0.0000	0.0000	0.0000	27,500	0.00
Mar 2019	DAUS	15.15 Call	27,500	256.6091	0.0000	0.0000	0.0000	27,500	0.00
Mar 2019	DAUS	13.88 Put	32,000	328.2695	261.6077	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	382.6450	308.7247	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	82.6850	64.6811	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	487.8236	401.7266	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	514.9315	425.8883	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	446.8014	531.0833	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	255.9942	308.1102	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	197.9754	239.1245	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.76 Put	100	294.3556	234.4287	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.35 Call	100	590.0382	693.6583	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	112.9740	90.7141	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1145.1776	1297.2332	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	538.0800	451.1123	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	565.1289	475.5300	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	492.9758	573.0795	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	305.8650	357.9988	0.0000	0.0000	0	0.00

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Apr 2019	DAUS	15.96 Call	250	247.0815	291.2688	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	141.7880	115.1264	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	580.2506	492.9135	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	607.2132	517.4814	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	531.0916	608.0730	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	348.4338	400.0192	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	286.2715	331.9107	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	909.8712	800.0263	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	193.1738	223.2213	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	165.2497	132.3164	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	612.6274	524.2166	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	639.5369	548.9271	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	560.6531	635.2043	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	381.7261	433.2144	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	318.7630	365.9373	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	293.9113	243.1419	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	310.5599	355.5843	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	186.3029	149.4128	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	644.7703	556.6147	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	671.5969	581.3959	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	597.4488	670.2480	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	420.4272	472.9817	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	357.8503	405.0520	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	812.7954	713.8144	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	408.5562	460.1750	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	205.3330	165.6272	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	670.9344	583.9394	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	697.6830	608.7611	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	621.4839	692.9467	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	446.6556	501.3827	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	384.3929	432.1026	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	198.0240	218.6273	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	220.6555	175.5374	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	694.1946	607.1331	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	720.8451	631.9428	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	651.5852	722.0060	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	477.8399	532.6767	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	413.0417	460.9929	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	237.8570	189.6370	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	716.8739	630.1082	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	743.4284	654.8814	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	674.0405	742.9660	0.0000	0.0000	0	0.00

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Oct 2019	DAUS	16.70 Call	250	503.3573	557.4127	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	17.09 Call	250	440.2569	487.9720	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	254.3575	202.9203	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.20 Put	250	736.1749	650.6780	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	762.6143	674.0540	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	697.9351	766.2908	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	528.7286	582.6752	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	17.26 Call	250	466.8759	514.8303	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	272.7975	222.4765	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.20 Put	250	761.1906	677.2509	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	787.5416	700.9761	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	731.1875	800.7818	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	564.7010	620.6864	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.44 Call	250	503.5129	553.7764	0.0000	0.0000	0	0.00		
			<u>519,655</u>					<u>55,000.00</u>	<u>0.00</u>	<u>22 107 231.00</u>	<u>0.00</u>
	Total		626,254					58,680.00	52,120,724.00	33 080 835.00	134 816 360 573.50
Future											
Dec 2018	EUUS	Future	60	1.1364	1.1337	0.0000	0.0000	0	0.00		
Jun 2019	EUUS	Future	582	1.1547	1.1521	0.0000	0.0000	0	0.00		
			<u>642</u>					<u>0.00</u>	<u>0.00</u>	<u>745 297.00</u>	<u>8 454 976 850.00</u>
	Total		642					0.00	0.00	745 297.00	8 454 976 850.00
Future											
Dec 2018	GBUS	Future	400	1.2627	1.2574	1.2612	1.2548	10	125,800.00		
			<u>400</u>					<u>10.00</u>	<u>125,800.00</u>	<u>170 407.00</u>	<u>2 192 764 108.00</u>
	Total		400					10.00	125,800.00	170 407.00	2 192 764 108.00
Future											
Dec 2018	ZAAD	Future	16,633	10.2275	10.3562	0.0000	0.0000	3,617	37,264,771.70		
Mar 2019	ZAAD	Future	3,571	10.3545	10.4883	0.0000	0.0000	5,040	52,429,143.10		
Jun 2019	ZAAD	Future	15,746	10.4816	10.6178	0.0000	0.0000	0	0.00		
Dec 2019	ZAAD	Future	400	10.7579	10.9025	0.0000	0.0000	0	0.00		
			<u>36,350</u>					<u>8,657.00</u>	<u>89,693,914.80</u>	<u>3 820 849.00</u>	<u>33 434 202 322.50</u>
Option											
Dec 2019	ZAAD	11.00 Call	1,000	529.7275	595.3257	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		37,350					8,657.00	89,693,914.80	3 855 226.00	33 434 202 322.50
Future											
Dec 2018	ZACA	Future	750	10.6141	10.7182	0.0000	0.0000	0	0.00		

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Mar 2019	ZACA	Future	500	10.7573	10.8644	0.0000	0.0000	0	0.00
Sep 2019	ZACA	Future	250	10.9083	11.0180	0.0000	0.0000	0	0.00
			<u>1,500</u>					<u>0.00</u>	<u>0.00</u>
		Total	1,500					0.00	0.00
									142 913.00
									1 412 076 545.10
Future									
Dec 2018	ZADK	Future	140	2.1662	2.1910	0.0000	0.0000	0	0.00
Jun 2019	ZADK	Future	250	2.2523	2.2782	0.0000	0.0000	0	0.00
			<u>390</u>					<u>0.00</u>	<u>0.00</u>
		Total	390					0.00	0.00
									12 985.00
									279 973 109.00
Future									
Dec 2018	ZAEU	Future	48,978	16.0969	16.2794	16.2494	16.1102	48,938	793,045,197.00
Mar 2019	ZAEU	Future	121,201	16.4139	16.6039	16.5271	16.4675	52,393	865,077,723.70
Jun 2019	ZAEU	Future	24,389	16.7206	16.9135	0.0000	0.0000	0	0.00
Sep 2019	ZAEU	Future	8,596	17.0613	17.2583	0.0000	0.0000	0	0.00
Dec 2019	ZAEU	Future	277	17.3851	17.5882	0.0000	0.0000	0	0.00
			<u>203,441</u>					<u>101,331.00</u>	<u>1,658,122,920.70</u>
									15 971 527.00
									230 390 988 108.60
Option									
Mar 2019	ZAEU	16.00 Call	650	768.4254	889.3109	0.0000	0.0000	0	0.00
Sep 2019	ZAEU	18.60 Call	55,000	570.3811	631.7656	0.0000	0.0000	0	0.00
Dec 2019	ZAEU	13.73 Put	17,150	69.4180	63.9699	0.0000	0.0000	0	0.00
Dec 2019	ZAEU	16.15 Put	17,150	554.2029	492.7276	0.0000	0.0000	0	0.00
Dec 2019	ZAEU	20.62 Call	17,150	460.4586	507.1275	0.0000	0.0000	0	0.00
			<u>107,100</u>					<u>0.00</u>	<u>0.00</u>
		Total	310,541					101,331.00	1,658,122,920.70
									26 928 403.00
									230 390 988 108.60
Future									
Dec 2018	ZAFR	Future	1,066	14.2637	14.4989	0.0000	0.0000	893	12,744,896.00
Mar 2019	ZAFR	Future	893	14.5597	14.8036	0.0000	0.0000	1,786	25,997,016.00
Jun 2019	ZAFR	Future	150	14.8459	15.0949	0.0000	0.0000	0	0.00
			<u>2,109</u>					<u>2,679.00</u>	<u>38,741,912.00</u>
		Total	2,109					2,679.00	38,741,912.00
									624 487.00
									6 724 130 144.80
Future									
Dec 2018	ZAGB	Future	48,631	17.8861	18.0569	17.9030	17.9030	21,803	391,848,721.10
Mar 2019	ZAGB	Future	396,737	18.1757	18.3527	18.2181	18.1500	23,614	430,973,947.00
Jun 2019	ZAGB	Future	5,889	18.4528	18.6321	0.0000	0.0000	0	0.00
Sep 2019	ZAGB	Future	13,875	18.7576	18.9402	18.7540	18.7368	650	12,179,700.00
Dec 2019	ZAGB	Future	247	19.0469	19.2326	19.0595	19.0595	500	9,529,750.00
Mar 2020	ZAGB	Future	0	19.3780	19.5714	19.3357	19.3357	500	9,667,850.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
			465,379					47,067.00	854,199,968.10	13 727 888.00	234 629 970 438.40	
Option												
	Dec 2018	ZAGB	19.30 Call	200	0.4673	8.7314	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	18.00 Put	500	573.7198	499.0997	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.00 Call	2,500	366.2843	426.1792	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.19 Put	1,000	1332.1345	1208.3483	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.00 Call	500	172.3769	204.6300	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.18 Call	1,500	149.4310	178.9514	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	21.44 Call	500	54.1354	65.6205	0.0000	0.0000	0	0.00		
			6,700					0.00	0.00	1 783 113.00	0.00	
	Total		472,079					47,067.00	854,199,968.10	15 511 001.00	234 629 970 438.40	
Future												
	Dec 2018	ZAJY	Future	6,905	0.1251	0.1268	0.0000	0.0000	0	0.00		
				6,905					0.00	0.00	1 021 902.00	11 470 576 312.50
	Total		6,905					0.00	0.00	1 021 902.00	11 470 576 312.50	
Future												
	Jun 2019	ZAKS	Future	2,166	0.1372	0.1391	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												
	Mar 2019	ZATR	Future	14,000	2.5371	2.5615	0.0000	0.0000	0	0.00		
				14,000					0.00	0.00	409 239.00	1 293 087 569.00
	Total		14,000					0.00	0.00	409 239.00	1 293 087 569.00	
Future												
	Dec 2018	ZAUM	Future	180	14.1644	14.3600	0.0000	0.0000	0	0.00		
	Mar 2019	ZAUM	Future	464	14.3243	14.5224	0.0000	0.0000	33	47,659,300.00		
				644					33.00	47,659,300.00	155 125.00	179 887 099 510.00
	Total		644					33.00	47,659,300.00	159 648.00	179 887 099 510.00	
Future												
	Dec 2018	ZAUS	Future	357,001	14.1644	14.3600	14.3266	14.1640	109,334	1,559,506,250.20		
	Mar 2019	ZAUS	Future	363,984	14.3243	14.5224	14.5000	14.3200	103,111	1,490,068,981.10		
	Jun 2019	ZAUS	Future	41,666	14.4807	14.6807	0.0000	0.0000	0	0.00		
	Sep 2019	ZAUS	Future	14,244	14.6526	14.8554	0.0000	0.0000	25	371,375.00		
	Dec 2019	ZAUS	Future	9,900	14.8154	15.0219	0.0000	0.0000	0	0.00		
	Mar 2020	ZAUS	Future	4,266	15.0064	15.2186	0.0000	0.0000	0	0.00		
			791,061						212,470.00	3,049,946,606.30	191 981 890.00	2 309 093 647 282.00

<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>
Option								
Dec 2018	ZAUS	11.64 Put	2,764	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	0.0000	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	1664.4002	1860.0001	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	0.0002	0.0001	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	0.0020	0.0013	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	0.0048	0.0030	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	0.0146	0.0084	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	0.0476	0.0786	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	4,500	1164.4643	1360.1041	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	72,280	0.0643	0.1041	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	0.0871	0.1379	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	0.1182	0.1826	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	5,000	964.6196	1160.3202	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	0.2488	0.3582	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	914.7003	1110.4237	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	0.3003	0.4237	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	0.4672	0.6267	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	0.4978	0.6627	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	715.4725	911.2913	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	1.0725	1.2913	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	665.9167	861.7018	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	1.5167	1.7018	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	68,500	3.0127	2.9427	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	5.1683	4.5686	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	5.9052	5.1087	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	8.2120	6.7355	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	10.6490	8.3759	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	500	375.7568	568.8407	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	11.3568	8.8407	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	21.2840	15.0071	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	243.1848	429.3930	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,000	202.9589	384.9112	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	53,250	38.5589	24.9112	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	66.9242	40.3032	0.0000	0	0.00

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Dec 2018	ZAUS	14.12 Put	4,372	74.2827	44.2241	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	112.5972	276.3047	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	115,000	86.5137	50.7179	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	91.9956	53.0553	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	79.9892	223.3322	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	115.5892	63.3322	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	141.6692	75.2068	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	62.9470	188.4423	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	184.8652	96.3285	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	42.4452	138.4992	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	208.0452	108.4992	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	38.4078	127.2418	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	224.0078	117.2418	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	257.0152	140.0906	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	29.8712	106.1184	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	24.4086	91.4244	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	13,700	18.0280	72.7124	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	353.6280	212.7124	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	362.7419	219.9501	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	81,900	10.9219	49.0785	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	1,000	446.5219	289.0785	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	10.3929	47.1582	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	9.8906	45.3085	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	513.3339	347.0504	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	6.6832	32.8116	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	581.1121	407.8864	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	5.2550	26.7732	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	590.8550	416.7732	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	4.1485	21.8318	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	639.7485	461.8318	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.82 Call	250	3.7786	20.1191	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	3.4441	18.5410	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	3.2890	17.7990	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	738.0480	554.5151	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	1.3464	9.6751	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	10,000	836.9464	649.6751	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	1.2678	9.2927	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	0.7825	6.8444	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	0.7366	6.6030	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	0.5443	5.5288	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	50	0.4021	4.6455	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	1036.0021	844.6455	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	15.25 Put	500	1085.8970	893.9171	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	1135.8195	943.3150	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	0.1440	2.6403	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	0.0839	1.9916	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	0.0745	1.8737	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	0.0661	1.7638	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1335.6661	1141.7638	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	0.0623	1.7116	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	0.0466	1.3534	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	0.0460	1.3151	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	0.0454	1.2781	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	0.0406	0.9948	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	0.0393	0.9174	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1675.6352	1480.6699	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	17,300	0.0349	0.6486	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	1,406	0.0331	0.5357	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,000	0.0309	0.4046	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	0.0288	0.2902	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	0.0283	0.2656	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	0.0274	0.2231	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	0.0269	0.1990	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	0.0242	0.0842	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	0.0233	0.0470	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	0.0231	0.0301	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	1.0078	0.9812	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	9.3124	8.4885	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	29.2622	25.1548	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	31.0977	26.6586	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.80 Put	6,332	48.0457	40.4237	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	57.7045	46.5724	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	60.2365	47.9041	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	15,434	71.2156	53.5999	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	78.8017	57.4786	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	90.4084	66.5676	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	95.7507	70.7773	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	115.2207	86.2588	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	132.7248	100.3389	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	139.7496	106.0254	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.40 Put	2,100	149.5147	113.9661	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	165.0368	126.6636	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	2,550	175.9794	135.6668	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	190.3378	147.5432	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	13.60 Put	6,570	205.4841	160.1251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.62 Put	6,432	212.2025	165.3584	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	233.1779	181.7592	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	240.4413	187.4626	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	247.8409	193.2855	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	259.1931	202.2468	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	274.8094	214.6185	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.85 Put	1,000	299.2541	235.1998	0.0000	0.0000	1,000	0.00
Mar 2019	ZAUS	13.86 Put	721	303.4443	238.7818	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	320.5542	253.4342	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Call	100	689.9795	814.7937	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	27,406	365.6795	292.3937	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	384.6630	308.9074	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Call	2,000	590.1072	702.6189	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.25 Call	750	567.1347	676.6097	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	509.4256	418.9875	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	544.9391	651.3990	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	549.7614	454.5769	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.42 Put	2,100	591.7806	491.6910	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	604.0489	502.5710	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	610.2244	508.0549	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.46 Call	6,332	480.7313	575.9691	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	473.2238	567.0901	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	465.8310	558.3301	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	15,050	641.5310	535.9301	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	660.6474	553.3380	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	680.0055	571.0090	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	739.5161	625.5695	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	801.0784	682.3685	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.80 Call	2,000	367.5083	443.8317	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	850.3106	728.0319	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	857.4388	734.6575	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	864.5868	741.3083	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	871.7576	747.9843	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.00 Call	1,260	313.7593	380.4964	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	63,500	1019.6885	886.5521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	1065.6147	929.8973	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	1081.0759	944.5160	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	1088.8343	951.8567	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	274.3500	333.8264	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1135.7653	996.3331	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1143.6493	1003.8165	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	15.22 Call	2,785	263.7669	321.2426	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.25 Call	1,500	257.6254	313.9280	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1239.5763	1095.1164	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.40 Call	2,000	229.1112	279.8521	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	220.3733	269.3746	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	218.6692	267.3303	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	211.9915	259.3113	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	208.7369	255.3981	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	205.5365	251.5478	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	187.4217	229.7166	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	166.7795	205.2670	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	164.1332	202.2274	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	156.4611	193.4039	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.98 Call	2,100	145.6562	180.7258	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	1,906	143.3640	177.9337	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	129.3804	160.8586	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	113.2730	141.1146	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	106.4589	132.7371	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	91.3175	114.0635	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	89.9388	112.3603	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	68.7192	86.0441	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	68.2161	85.4192	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	65.7636	82.3662	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	62.9530	78.8642	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	99,824	62.4976	78.2964	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	62.0460	77.7344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	56.8429	70.8210	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	54.3699	67.3911	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	48.0194	59.0055	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	35.8572	43.8133	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	28.9240	35.1569	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	5.5614	5.6151	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	49.1178	38.8200	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	107.8663	86.1958	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	150.4963	121.2188	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	154.6949	124.6934	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	213.3536	172.2094	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.83 Put	25,000	416.8726	349.4520	0.0000	0.0000	1,835	0.00
Jun 2019	ZAUS	13.88 Put	5,035	439.2516	368.2497	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.98 Call	1,000	986.6132	1109.1043	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.42 Call	30	780.7365	883.0546	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	14.58 Call	1,000	716.7075	812.1608	0.0000	0.0000	0	0.00

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Jun 2019	ZAUS	14.63 Put	8,203	847.0850	740.4677	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.65 Put	1,000	859.6576	0.0000	0.0000	0.0000	1,000	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	630.4187	716.1523	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,500	543.2710	618.5406	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.32 Call	1,980	484.0815	0.0000	0.0000	0.0000	3,960	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	415.1461	473.3448	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	379.2290	432.5986	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	357.3091	407.6824	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	342.8386	392.0018	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	138.4567	156.0281	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	10.3439	11.2081	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	96.6602	72.1035	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.25 Put	3,900	292.0738	241.3641	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	538.9007	468.2729	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	567.4161	492.8547	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	626.7276	544.1870	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	688.9993	601.5975	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	754.1376	662.2557	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1425.7992	1300.6506	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1557.3200	1426.6970	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	575.5416	639.6836	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	340.6973	382.1241	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	294.6118	329.7695	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	278.2342	307.5967	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	272.4111	301.0788	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	248.7308	274.5846	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	238.2824	262.8942	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	229.6795	253.2696	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	185.1229	217.6954	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	43.3739	31.8472	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	498.8658	436.5925	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	473.9633	522.8390	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	234.8353	268.5135	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	11.91 Put	1,000	93.5497	78.6830	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	14.01 Put	1,000	738.8303	655.8810	0.0000	0.0000	0	0.00		
Mar 2020	ZAUS	17.73 Call	1,000	625.3563	679.3240	0.0000	0.0000	0	0.00		
			<u>7,564,924</u>					<u>7,795.00</u>	<u>0.00</u>	<u>62 684 503.00</u>	<u>0.00</u>
	Total		8,355,985					220,265.00	3,049,946,606.30	254 666 393.00	2 309 093 647 282.00

<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		9,954,798				438,722.00	5 790 611 145.90	348,863,666	3,211,962,553,256.33
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