



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 11-September-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Oct 2018	CC01	Future	25,000	662.9575	661.3297	0.0000	0.0000	0	0.00		
			<u>25,000</u>					<u>0.00</u>	<u>0.00</u>	<u>25 000.00</u>	<u>7 830 750.00</u>
		Total	25,000					0.00	0.00	25 000.00	7 830 750.00
Future											
Oct 2018	DAEU	Future	34	17.6828	17.7672	0.0000	0.0000	0	0.00		
			<u>34</u>					<u>0.00</u>	<u>0.00</u>	<u>801 328.00</u>	<u>11 965 949 271.80</u>
Option											
Aug 2019	DAEU	16.03 Put	31,200	225.7677	223.1207	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	16.24 Put	30,200	264.2739	261.2701	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	17.01 Put	31,200	447.0107	441.7326	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	1125.3702	1183.6441	0.0000	0.0000	0	0.00		
			<u>155,000</u>					<u>0.00</u>	<u>0.00</u>	<u>1 297 987.00</u>	<u>0.00</u>
		Total	155,034					0.00	0.00	2 099 315.00	11 965 949 271.80
Future											
Sep 2018	DAGB	Future	14	19.7537	19.8504	0.0000	0.0000	14	275,408.00		
Oct 2018	DAGB	Future	48	19.8156	19.9123	0.0000	0.0000	0	0.00		
			<u>62</u>					<u>14.00</u>	<u>275,408.00</u>	<u>53 831.00</u>	<u>883 358 081.80</u>
		Total	62					14.00	275,408.00	261 144.00	883 358 081.80
Future											
Sep 2018	DAUS	Future	300	15.1745	15.2212	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	Future	197	15.1829	15.2296	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	Future	2,673	15.1891	15.2358	0.0000	0.0000	33	501,237.00		
Oct 2018	DAUS	Future	55	15.1974	15.2442	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,600	15.2245	15.2713	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	235	15.2288	15.2755	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	70	15.2457	15.2923	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	15.2541	15.3007	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>		
Oct 2018	DAUS	Future	4,847	15.2584	15.3049	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	55	15.2605	15.3070	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	15.2858	15.3322	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	15.2900	15.3364	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	420	15.2921	15.3385	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	15.3193	15.3658	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	7,449	15.3214	15.3679	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,387	15.3853	15.4321	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	15.3893	15.4361	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	55	15.4464	15.4935	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,225	15.4485	15.4955	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	15.4750	15.5221	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	4,725	15.5056	15.5529	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	4,414	15.5606	15.6082	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	400	15.5647	15.6123	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	15.5728	15.6205	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	15.6298	15.6780	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	15.6929	15.7417	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	15.7574	15.8063	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	15.8229	15.8715	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	15.8905	15.9389	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.9573	16.0065	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	16.0237	16.0739	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	16.0970	16.1484	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	16.1680	16.2205	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	16.2345	16.2880	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	16.3055	16.3601	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	16.3765	16.4323	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	16.4384	16.4951	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	16.5162	16.5742	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	16.6445	16.7045	0.0000	0.0000	0	0.00		
			<u>121,062</u>					<u>33.00</u>	<u>501,237.00</u>	<u>10 607 221.00</u>	<u>129 590 592 964.80</u>
Option											
Sep 2018	DAUS	13.30 Put	747	0.0003	0.1026	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	15.25 Put	20,000	188.6274	184.2892	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	15.00 Call	7,500	280.0178	328.6631	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	14.48 Put	40,000	29.5929	35.7109	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	13.00 Put	500	1.0039	1.1358	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	13.78 Call	500	1417.3972	1464.5873	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	13.80 Put	1,000	8.6385	9.2051	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	14.25 Put	250	22.1673	26.0963	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	14.54 Call	250	697.6947	748.9328	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>
Sep 2018	DAUS	16.25 Call	500	50.4355	69.1252	0.0000	0.0000	0	0.00
Sep 2018	DAUS	16.80 Call	500	19.1956	29.4011	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.20 Put	1,630	8.7951	9.9110	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.00 Call	1,630	1277.0271	1325.9260	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.00 Put	500	11.6197	12.5960	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.80 Put	1,000	34.3569	36.2430	0.0000	0.0000	0	0.00
Oct 2018	DAUS	13.93 Call	500	1376.0436	1424.5603	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.25 Put	250	96.9325	98.7094	0.0000	0.0000	0	0.00
Oct 2018	DAUS	14.67 Call	250	799.0882	844.2763	0.0000	0.0000	0	0.00
Oct 2018	DAUS	16.47 Call	500	169.8394	190.8346	0.0000	0.0000	0	0.00
Oct 2018	DAUS	17.02 Call	500	105.9099	121.5604	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.85 Put	1,100	289.1960	286.1866	0.0000	0.0000	0	0.00
Nov 2018	DAUS	15.50 Call	1,100	405.1088	439.6331	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.90 Put	1,880	3.2578	3.6365	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.86 Put	1,880	47.6145	49.5957	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.81 Call	1,880	144.2718	162.1204	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	1.1691	1.4706	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	3.6575	4.0039	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	2098.3322	2146.4865	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.00 Put	10,000	84.9930	87.1817	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	848.6877	893.3148	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	836.6611	881.1368	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	750.6830	793.9153	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	348.5830	345.4153	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.84 Call	10,000	790.5434	834.4197	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.62 Call	20,400	941.4325	987.2170	0.0000	0.0000	0	0.00
Nov 2018	DAUS	15.31 Call	10,000	580.7877	620.6697	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	25.9795	27.1527	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	74.2519	76.5472	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	1363.2932	1412.1872	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	159.7684	161.9981	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	853.3727	898.3915	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	246.3506	270.8828	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	166.7331	186.1139	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	697.4914	690.6110	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	97.6108	99.9346	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	183.6221	185.8317	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	401.0812	399.3466	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	609.8782	605.0755	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	72.6871	76.3060	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	97.3740	99.4607	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	764.5749	808.2748	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	15.69 Call	20,000	520.5601	558.1251	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	114.6876	116.7583	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	206.3335	208.2510	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	429.1698	427.3770	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	638.4476	633.9664	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	45.7119	47.7291	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	52.2087	54.5269	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	1031.4226	1077.5662	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	978.8127	1024.5320	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	38.4770	38.8756	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	109.4617	113.1302	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	1364.0779	1412.8197	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	206.8509	208.7600	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.96 Put	250	474.4380	472.2303	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	303.7004	330.1664	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	214.7284	236.4333	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	27.1736	26.5834	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	48.0808	47.4580	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	248.9906	250.8417	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	1357.5724	1406.2523	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	930.7714	974.8913	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	54.0453	52.5558	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	283.5561	285.1573	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	1360.0425	1408.1581	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	964.1496	1008.4173	0.0000	0.0000	0	0.00
Mar 2019	DAUS	13.00 Put	500	60.1942	58.0760	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	315.4861	316.2180	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	1361.5893	1409.1402	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	991.6795	1034.2099	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	66.8060	63.6953	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	2282.5116	2327.5570	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	346.3315	345.5088	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	1363.6159	1409.7263	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	1017.4663	1058.2655	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	72.4964	68.5573	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	375.0925	372.6076	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	1370.7531	1413.5563	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	1041.9527	1081.8435	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	76.2131	71.9865	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	397.9545	395.4927	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	1377.3509	1418.7788	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.96 Call	250	1061.2821	1099.8623	0.0000	0.0000	0	0.00

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Jul 2019	DAUS	13.45 Put	39,250	158.2168	153.6541	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.44 Call	39,250	920.5448	956.5175	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	13.00 Put	500	80.6438	75.2174	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	14.25 Put	250	423.5285	418.9269	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	15.34 Call	500	1396.2688	1436.2235	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	16.14 Call	250	1090.9095	1127.9791	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.48 Put	3,950	517.3000	512.0351	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.35 Call	3,950	1057.0932	1093.1089	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	13.00 Put	500	83.1191	77.2283	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	14.25 Put	250	440.0099	431.0168	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	15.52 Call	500	1403.9948	1442.5746	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	16.33 Call	250	1109.0038	1144.7838	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	19.00 Call	20,000	563.3334	588.9479	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	13.00 Put	500	82.4713	75.9538	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	14.25 Put	250	455.3483	444.3506	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	15.68 Call	500	1430.2558	1468.9932	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	16.50 Call	250	1141.8932	1178.8635	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	13.00 Put	500	105.8845	98.4766	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	14.25 Put	250	475.0810	463.6370	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	15.87 Call	500	1452.0505	1491.5263	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	16.70 Call	250	1171.4162	1209.8436	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	13.00 Put	500	130.6936	115.2822	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	14.25 Put	250	492.0991	477.8189	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.03 Call	500	1478.6159	1519.2723	0.0000	0.0000	0	0.00		
Nov 2019	DAUS	16.87 Call	250	1203.2411	1243.2651	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	13.00 Put	500	143.9849	131.5315	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	14.25 Put	250	509.4101	495.4257	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	16.21 Call	500	1505.8044	1548.7178	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	17.05 Call	250	1238.7301	1280.1442	0.0000	0.0000	0	0.00		
			<u>798,410</u>					<u>0.00</u>	<u>0.00</u>	<u>20 533 670.00</u>	<u>0.00</u>
Total			919,472					33.00	501,237.00	31 140 891.00	129 590 592 964.80
Future											
Sep 2018	EUUS	Future	7,143	1.1590	1.1609	0.0000	0.0000	0	0.00		
			<u>7,143</u>					<u>0.00</u>	<u>0.00</u>	<u>736 952.00</u>	<u>8 357 941 941.00</u>
Total			7,143					0.00	0.00	736 952.00	8 357 941 941.00
Future											
Sep 2018	GBUS	Future	500	1.3000	1.3023	1.3045	1.3032	252	3,287,327.00		
			<u>500</u>					<u>252.00</u>	<u>3,287,327.00</u>	<u>167 866.00</u>	<u>2 159 649 829.00</u>
Total			500					252.00	3,287,327.00	167 866.00	2 159 649 829.00

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Future										
Sep 2018	ZAAD	Future	12,144	10.7586	10.8298	0.0000	0.0000	0	0.00	
Dec 2018	ZAAD	Future	11,469	10.8952	10.9662	0.0000	0.0000	0	0.00	
Mar 2019	ZAAD	Future	520	11.0448	11.1161	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	4,929	11.1893	11.2613	0.0000	0.0000	0	0.00	
			<u>29,062</u>					<u>0.00</u>	<u>0.00</u>	<u>3 695 572.00</u>
		Total	29,062					0.00	0.00	3 727 949.00
Future										
Dec 2018	ZACA	Future	600	11.7005	11.7206	0.0000	0.0000	0	0.00	
			<u>600</u>					<u>0.00</u>	<u>0.00</u>	<u>137 653.00</u>
		Total	600					0.00	0.00	137 653.00
Future										
Sep 2018	ZADK	Future	245	2.3683	2.3796	0.0000	0.0000	0	0.00	
Dec 2018	ZADK	Future	240	2.4168	2.4279	0.0000	0.0000	0	0.00	
			<u>485</u>					<u>0.00</u>	<u>0.00</u>	<u>12 090.00</u>
		Total	485					0.00	0.00	12 090.00
Future										
Sep 2018	ZAEU	Future	92,068	17.5772	17.6612	17.5525	17.5135	2,205	38,718,693.60	
Dec 2018	ZAEU	Future	41,503	17.9124	17.9981	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	Future	5,496	18.2895	18.3757	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	Future	5,256	18.6471	18.7355	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	Future	6,161	19.0462	19.1331	0.0000	0.0000	0	0.00	
			<u>150,484</u>					<u>2,205.00</u>	<u>38,718,693.60</u>	<u>15 281 293.00</u>
										<u>218 768 706 490.50</u>
Option										
Sep 2018	ZAEU	13.50 Put	29,734	0.0258	0.0200	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	14.25 Put	57,090	0.0347	0.0254	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	15.85 Put	86,824	0.4121	0.8137	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	16.76 Call	29,734	828.7073	910.0585	0.0000	0.0000	0	0.00	
Sep 2018	ZAEU	19.56 Call	86,824	1.7689	2.5915	0.0000	0.0000	0	0.00	
Mar 2019	ZAEU	16.00 Call	650	2431.9869	2517.2320	0.0000	0.0000	0	0.00	
			<u>290,856</u>					<u>0.00</u>	<u>0.00</u>	<u>8 025 012.00</u>
		Total	441,340					2,205.00	38,718,693.60	23 306 305.00
										218 768 706 490.50
Future										
Sep 2018	ZAFR	Future	1,775	15.5742	15.6491	0.0000	0.0000	0	0.00	
Dec 2018	ZAFR	Future	755	15.8864	15.9623	0.0000	0.0000	0	0.00	
Jun 2019	ZAFR	Future	150	16.5706	16.6504	0.0000	0.0000	0	0.00	
			<u>2,680</u>					<u>0.00</u>	<u>0.00</u>	<u>616 960.00</u>
										<u>6 612 282 288.80</u>

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Total			2,680					0.00	0.00	616 960.00	6 612 282 288.80
Future											
Sep 2018	ZAGB	Future	30,205	19.7154	19.8118	0.0000	0.0000	0	0.00		
Dec 2018	ZAGB	Future	473,044	20.0327	20.1303	19.9944	19.9944	685	13,670,967.00		
Mar 2019	ZAGB	Future	4,932	20.3840	20.4830	0.0000	0.0000	0	0.00		
Jun 2019	ZAGB	Future	5,856	20.7129	20.8152	0.0000	0.0000	0	0.00		
Sep 2019	ZAGB	Future	10,026	21.0794	21.1813	0.0000	0.0000	0	0.00		
			524,063					685.00	13,670,967.00	12 668 550.00	215 176 043 911.20
Option											
Mar 2019	ZAGB	18.00 Put	500	226.7403	223.8437	0.0000	0.0000	0	0.00		
Mar 2019	ZAGB	21.44 Call	500	755.1373	813.3543	0.0000	0.0000	0	0.00		
			1,000					0.00	0.00	1 775 113.00	0.00
Total			525,063					685.00	13,670,967.00	14 443 663.00	215 176 043 911.20
Future											
Sep 2018	ZAJY	Future	115	0.1361	0.1369	0.0000	0.0000	0	0.00		
Dec 2018	ZAJY	Future	6,905	0.1386	0.1395	0.0000	0.0000	0	0.00		
			7,020					0.00	0.00	1 014 882.00	11 375 646 502.50
Total			7,020					0.00	0.00	1 014 882.00	11 375 646 502.50
Future											
Jun 2019	ZAKS	Future	2,166	0.1482	0.1494	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 2018	ZATR	Future	6,000	2.3395	2.3486	0.0000	0.0000	0	0.00		
Dec 2018	ZATR	Future	6,000	2.2426	2.2520	0.0000	0.0000	0	0.00		
			12,000					0.00	0.00	365 969.00	1 189 127 971.00
Total			12,000					0.00	0.00	365 969.00	1 189 127 971.00
Future											
Sep 2018	ZAUM	Future	174	15.1660	15.2127	0.0000	0.0000	0	0.00		
Dec 2018	ZAUM	Future	316	15.3506	15.3972	0.0000	0.0000	0	0.00		
Mar 2019	ZAUM	Future	10	15.5423	15.5897	0.0000	0.0000	0	0.00		
			500					0.00	0.00	152 885.00	176 656 835 550.00
Total			500					0.00	0.00	157 408.00	176 656 835 550.00
Future											
Sep 2018	ZAUS	Future	348,919	15.1660	15.2127	15.1920	15.0284	43,780	662,100,982.50		

<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	ZAUS	Future	617,209	15.3506	15.3972	15.3800	15.2200	18,560	283,881,104.30
Mar 2019	ZAUS	Future	30,855	15.5423	15.5897	15.4980	15.4460	4,659	72,133,303.00
Jun 2019	ZAUS	Future	19,910	15.7215	15.7705	0.0000	0.0000	0	0.00
Sep 2019	ZAUS	Future	17,436	15.9206	15.9692	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	Future	3,966	16.3376	16.3927	0.0000	0.0000	0	0.00
			<u>1,038,295</u>					<u>66,999.00</u>	<u>1,018,115,389.80</u>
									<u>184 822 200.00</u>
									<u>2 205 437 487 031.80</u>

Option

Sep 2018	ZAUS	11.48 Put	5,200	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.50 Put	45,000	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.60 Put	2,000	0.0000	0.0000	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.75 Put	93,314	0.0002	0.0001	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.85 Put	48,200	0.0012	0.0006	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.90 Put	3,000	0.0025	0.0012	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.00 Put	13,300	0.0095	0.0046	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.25 Call	500	2916.0366	2962.7320	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.25 Put	40,000	0.0366	0.0320	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.30 Put	100	0.0391	0.0361	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.38 Put	60,000	0.0436	0.0439	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.50 Call	3,600	2666.0513	2712.7588	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.50 Put	44,000	0.0513	0.0588	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.58 Put	8,000	0.0574	0.0717	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.61 Put	13,231	0.0598	0.0772	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.65 Put	1,550	0.0633	0.0853	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.77 Call	5,200	2396.0753	2442.8153	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.80 Call	50	2366.0787	2412.8244	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.80 Put	500	0.0787	0.1244	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.85 Put	750	0.0847	0.1413	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Call	7,500	2166.1065	2212.9079	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Put	70,000	0.1065	0.2079	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.10 Put	2,500	0.1248	0.2699	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Call	4,000	1966.1470	2013.0516	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Put	4,500	0.1470	0.3516	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.22 Put	10,000	0.1521	0.3709	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Call	1,250	1916.1600	1963.1018	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Put	74,064	0.1600	0.4018	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.30 Call	500	1866.1743	1913.1597	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.50 Call	500	1666.2501	1713.4946	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Call	26,000	1566.3033	1613.7510	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.60 Put	4,000	0.3033	1.0510	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.65 Call	1,464	1516.3352	1563.9106	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Call	60,000	1167.7458	1215.7729	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.00 Put	22,000	1.7458	3.0729	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>
Sep 2018	ZAUS	14.20 Call	500	970.2978	1018.0818	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.50 Call	500	681.6229	727.0895	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	14.70 Call	63,000	500.9499	547.6233	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.00 Call	4,000	266.7786	316.4431	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.00 Put	50	100.7786	103.7431	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.97 Call	5,300	14.4959	27.2817	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.04 Call	1,550	12.3002	23.0638	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.14 Call	750	9.8290	18.2220	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.29 Call	73,314	7.1798	12.9314	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.64 Put	2,764	6.7879	7.1961	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	7.4356	7.8513	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	8.4238	8.8462	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	9.1580	9.5821	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	9.3127	9.7367	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	9.9597	10.3831	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	10.8366	11.2554	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	11.3059	11.7209	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	13.2891	13.7802	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	2866.4552	2913.6869	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	15.8552	16.4869	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	19.1421	19.9556	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	20.5648	21.4570	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	22.7193	23.7307	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	30.0597	31.4725	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	2382.8047	2430.9324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	32.2047	33.7324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	34.4870	36.1366	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	36.9161	38.6929	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	2192.8439	2241.4953	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	43.3892	45.4992	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	2145.7607	2194.5586	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Put	17,800	45.1607	47.3586	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	49.5493	51.9637	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	50.2065	52.6531	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1959.3286	2008.7774	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	58.7286	61.5774	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1913.2475	1962.8737	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	62.6475	65.6737	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	71.1923	74.5913	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	78.7604	82.4731	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	80.7603	84.5540	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.71 Put	20	81.7771	85.6101	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.75 Put	700	85.9600	89.9562	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.78 Call	100	1659.8191	1710.5389	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	90.3295	94.4913	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,264	1642.0679	1692.8560	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	400	91.4679	95.6560	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	108.2554	110.3146	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	1518.0384	1566.7205	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,400	1477.7684	1526.4637	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	68,250	127.1684	129.2637	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	148.3271	150.4165	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	152.8384	154.9214	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	1375.7286	1424.4088	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	159.7826	161.8535	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	162.1446	164.2091	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	1,000	1322.4390	1371.0767	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	171.8390	173.8767	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	181.9231	183.9255	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	1,000	1285.1077	1333.6988	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Put	0	184.5077	186.4988	0.0000	0.0000	20,000	0.00
Dec 2018	ZAUS	14.30 Put	35,000	197.7993	199.7299	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	1226.6769	1275.1637	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	206.0769	207.9637	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	1212.3236	1260.7791	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	211.7236	213.5791	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.38 Call	20	1190.9851	1239.3903	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	223.3256	225.1087	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	1149.0105	1197.2910	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	700	1107.9770	1156.1148	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	257.3770	258.9148	0.0000	0.0000	20,000	0.00
Dec 2018	ZAUS	14.60 Call	84,900	1041.7331	1089.5619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Put	3,000	291.1331	292.3619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	1035.5608	1083.0478	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	1029.4179	1076.5626	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Call	5,000	999.1453	1045.1489	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.67 Put	3,000	318.5453	317.9489	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	20,000	981.3310	1027.1922	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	347.3893	346.4513	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	952.2258	997.8358	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	351.6258	350.6358	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	923.8451	969.1891	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	373.2451	371.9891	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	901.6565	946.7779	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.90 Put	35,000	418.6328	416.8019	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	10,000	817.4451	861.5848	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	20,700	466.8451	464.3848	0.0000	0.0000	10,000	0.00
Dec 2018	ZAUS	15.01 Call	10,000	812.4190	856.4953	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	773.1987	816.7289	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	768.4178	811.8802	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	744.9177	788.0223	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Put	50	571.4759	567.6115	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	599.2879	595.0437	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	627.7358	623.1055	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	649.3770	690.6250	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	614.4044	654.5370	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	606.8919	646.8124	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	4,000	599.4757	639.1797	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	748.8757	741.9797	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	595.8022	635.3992	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	567.2249	605.9558	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	560.3049	598.8152	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	11,580	530.2264	567.7457	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	520.5812	557.7674	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	976.1622	965.5312	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	483.8065	519.6619	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	466.4686	501.6578	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	50	441.7046	475.8954	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	413.3782	446.3466	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	406.0404	438.6418	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	391.7972	423.7460	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	382.6127	414.1421	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	317.3656	345.6318	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	276.8543	302.8290	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	246.7498	271.3816	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	3.2579	3.5642	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	13.7899	14.2932	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	20.2923	19.7291	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	22.1058	20.4434	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	47.3462	45.4577	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	49.0691	47.1833	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	56.4423	54.5839	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	61.4574	59.6308	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	69.0314	67.2689	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	100.3077	98.9522	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	115.9734	114.8764	0.0000	0.0000	0	0.00

<u>DATE</u>	<u>CONTRACT</u>		<u>OPEN INT</u>	<u>MTM</u>	<u>PREV MTM</u>	<u>HIGH</u>	<u>LOW</u>	<u>DAILY VOLUME</u>	<u>CUMULATIVE VOLUME</u>
Mar 2019	ZAUS	13.68 Put	14,200	156.4246	156.0803	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	160.5300	160.2663	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	171.1169	171.0631	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	179.9231	180.0456	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	196.0657	196.5142	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	205.7141	206.3584	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	231.2087	232.3706	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	241.8947	243.3427	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	312.8020	314.1273	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	1,000	1561.5426	1610.2474	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	335.7082	336.9496	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	366.6549	367.7614	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	1443.2544	1491.6920	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,000	388.2277	389.2289	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	399.2965	400.2425	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	410.5536	411.4417	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	14,200	482.0452	482.5164	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	518.3959	516.9268	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10	523.0863	521.5780	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.84 Put	134,750	527.7989	526.2469	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.96 Call	17,981	1168.3475	1213.6786	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	626.6034	624.1704	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	668.5058	665.6888	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	673.8331	670.9735	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	1067.6642	1112.0019	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	706.2475	703.0890	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	711.7216	708.5147	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	778.9547	775.1293	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	947.2426	990.1152	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	943.2153	986.0349	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	911.6876	954.0597	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	866.1060	907.8914	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	812.5381	853.1975	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	785.4774	825.5251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	20,000	749.9000	789.1063	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	710.1953	748.3925	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	640.5378	676.7329	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	586.2704	620.7770	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	509.1431	541.0467	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	507.1877	539.0238	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	497.5567	529.0404	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	486.3049	517.3729	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	17.09 Call	106,824	484.4648	515.4626	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	17.10 Call	2,500	482.6297	513.5613	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	17.23 Call	41,300	458.0267	488.7027	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	17.50 Call	16,000	411.5399	440.5046	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	18.00 Call	14,200	339.7234	365.7236	0.0000	0.0000	0	0.00		
Mar 2019	ZAUS	18.40 Call	7,100	293.2928	317.1348	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	10.69 Put	1,000	14.7259	14.2410	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	12.28 Put	1,000	30.0518	30.3984	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	12.75 Put	1,000	48.1795	44.6470	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	12.98 Put	911	74.0177	69.8220	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.24 Put	30,000	113.5360	108.7500	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.83 Put	25,000	250.3655	245.1310	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.88 Put	6,250	265.1949	259.9811	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.98 Call	1,000	2037.9127	2081.7704	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.42 Call	30	1748.8994	1794.5458	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	1650.3112	1695.6536	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	1511.0577	1555.8990	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.55 Call	25,000	1174.0897	1214.3096	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	6,250	1146.7627	1186.6872	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	1078.6699	1118.3815	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	1035.2286	1074.2702	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	22.0385	22.1867	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	45.8320	45.9947	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	339.6430	330.1661	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	434.1536	424.5516	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	483.8423	0.0000	0.0000	0.0000	33,151	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	640.8062	634.4316	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	970.1303	960.9129	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.55 Call	30,000	1439.3633	1478.1454	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1074.6932	1064.8416	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	1316.0965	1353.7526	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	904.2434	936.7309	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	813.6292	844.7988	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	771.2476	801.6704	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	755.8937	786.0395	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	662.6356	690.9870	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	552.6934	0.0000	0.0000	0.0000	33,151	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	60.6225	56.1288	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	294.1902	276.0434	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	1105.0229	1144.6356	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	682.1947	713.2934	0.0000	0.0000	0	0.00		
			<u>6,981,509</u>					<u>116,302.00</u>	<u>0.00</u>	<u>58 246 715.00</u>	<u>0.00</u>

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		Total	8,019,804				183,301.00	1,018,115,389.80	243 068 915.00	2 205 437 487 031.80
		Grand Total	10,147,931				186,490.00	1 074 569 022.40	329,998,306	3,065,151,826,207.32