



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 18-May-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
May 2018	DAEU	Future	41	15.0005	14.8121	0.0000	0.0000	0	0.00
Jul 2018	DAEU	Future	34	15.1702	14.9796	0.0000	0.0000	0	0.00
			75					0.00	0.00
		Total	75					0.00	0.00
									790 933.00
									11 805 104 237.30
Future									
May 2018	DAUS	Future	30,000	12.7417	12.5600	0.0000	0.0000	0	0.00
May 2018	DAUS	Future	34,600	12.7417	12.5567	0.0000	0.0000	0	0.00
May 2018	DAUS	Future	20,000	12.7447	12.5618	0.0000	0.0000	0	0.00
May 2018	DAUS	Future	30,000	12.7505	12.5685	0.0000	0.0000	0	0.00
May 2018	DAUS	Future	270	12.7538	12.5719	0.0000	0.0000	0	0.00
Jun 2018	DAUS	Future	1,746	12.7682	12.5856	0.0000	0.0000	0	0.00
Jun 2018	DAUS	Future	20	12.3509	12.3509	0.0000	0.0000	0	0.00
Jun 2018	DAUS	Future	5,947	12.7898	12.6061	0.0000	0.0000	3,599	45,863,496.60
Jun 2018	DAUS	Future	2,085	12.8051	12.6210	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	100	12.8102	12.6260	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	1,800	12.8405	12.6558	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	500	12.8473	12.6624	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	70	12.8490	12.6641	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	1,345	12.8524	12.6674	0.0000	0.0000	0	0.00
Jul 2018	DAUS	Future	2,015	12.8591	12.6740	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	70	12.8811	12.6955	0.0000	0.0000	0	0.00
Aug 2018	DAUS	Future	3,479	12.9113	12.7249	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	177	12.4777	12.4777	0.0000	0.0000	0	0.00
Sep 2018	DAUS	Future	2,695	12.9575	12.7701	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	70	13.0021	12.8138	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	225	13.0087	12.8203	0.0000	0.0000	0	0.00
Oct 2018	DAUS	Future	3,113	13.0120	12.8235	0.0000	0.0000	470	6,037,620.00
Nov 2018	DAUS	Future	70	13.0335	12.8445	0.0000	0.0000	0	0.00
Nov 2018	DAUS	Future	2,812	13.0614	12.8715	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	Future	1,580	13.1117	12.9198	0.0000	0.0000	580	7,507,230.00
Jan 2019	DAUS	Future	1,225	13.1621	12.9681	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	70	13.1832	12.9883	0.0000	0.0000	0	0.00
Feb 2019	DAUS	Future	1,225	13.2075	13.0115	0.0000	0.0000	0	0.00
Mar 2019	DAUS	Future	4,414	13.2512	13.0528	0.0000	0.0000	0	0.00
Apr 2019	DAUS	Future	1,225	13.3062	13.1048	0.0000	0.0000	0	0.00
Jul 2020	DAUS	Future	84,000	14.0132	13.8173	0.0000	0.0000	0	0.00
			<u>236,948</u>					<u>4,649.00</u>	<u>59,408,346.60</u>
									<u>9 946 914.00</u>
									<u>120 775 695 932.90</u>

Option

May 2018	DAUS	11.95 Call	30,000	791.7413	610.3951	0.0000	0.0000	0	0.00
May 2018	DAUS	12.00 Call	30,000	741.8489	559.3945	0.0000	0.0000	0	0.00
May 2018	DAUS	12.37 Call	30,000	395.1366	241.3007	0.0000	0.0000	0	0.00
May 2018	DAUS	12.60 Call	80,000	209.2967	100.4566	0.0000	0.0000	0	0.00
May 2018	DAUS	12.60 Call	40,000	224.7822	113.6556	0.0000	0.0000	0	0.00
May 2018	DAUS	12.45 Call	40,000	343.2380	203.4472	0.0000	0.0000	0	0.00
May 2018	DAUS	12.46 Call	30,000	335.2322	196.9107	0.0000	0.0000	0	0.00
May 2018	DAUS	12.24 Put	118	17.4264	38.2856	0.0000	0.0000	0	0.00
May 2018	DAUS	12.55 Call	118	278.8703	155.8391	0.0000	0.0000	0	0.00
May 2018	DAUS	12.60 Put	270	91.2641	161.4306	0.0000	0.0000	0	0.00
May 2018	DAUS	12.69 Call	270	190.2074	99.3959	0.0000	0.0000	0	0.00
May 2018	DAUS	12.75 Call	118	158.1224	81.0407	0.0000	0.0000	0	0.00
May 2018	DAUS	13.80 Put	1,000	1050.9731	1229.9031	0.0000	0.0000	0	0.00
May 2018	DAUS	15.43 Call	500	0.0535	0.0684	0.0000	0.0000	0	0.00
May 2018	DAUS	15.89 Call	500	0.1081	0.1395	0.0000	0.0000	0	0.00
Jun 2018	DAUS	12.80 Call	1,746	183.7652	107.3746	0.0000	0.0000	0	0.00
Jun 2018	DAUS	12.47 Put	158	126.3209	182.2206	0.0000	0.0000	0	0.00
Jun 2018	DAUS	12.62 Call	158	369.9233	257.0774	0.0000	0.0000	0	0.00
Jun 2018	DAUS	13.80 Put	1,000	1046.4319	1208.0090	0.0000	0.0000	0	0.00
Jun 2018	DAUS	15.62 Call	500	1.9608	1.3568	0.0000	0.0000	0	0.00
Jun 2018	DAUS	16.10 Call	500	1.8028	1.3592	0.0000	0.0000	0	0.00
Jul 2018	DAUS	11.80 Put	2,000	17.4035	24.5153	0.0000	0.0000	0	0.00
Jul 2018	DAUS	12.50 Put	2,000	141.5582	200.5083	0.0000	0.0000	0	0.00
Jul 2018	DAUS	13.12 Call	2,000	174.3055	111.8978	0.0000	0.0000	0	0.00
Jul 2018	DAUS	12.07 Put	2,000	43.9892	65.0829	0.0000	0.0000	0	0.00
Jul 2018	DAUS	13.60 Call	1,000	89.6534	53.8386	0.0000	0.0000	0	0.00
Jul 2018	DAUS	13.73 Call	1,000	72.7716	42.8838	0.0000	0.0000	0	0.00
Jul 2018	DAUS	14.45 Put	1,500	1643.2588	1809.6120	0.0000	0.0000	0	0.00
Jul 2018	DAUS	15.94 Call	1,500	5.6277	3.2125	0.0000	0.0000	0	0.00
Jul 2018	DAUS	13.80 Put	1,000	1055.1595	1200.7646	0.0000	0.0000	0	0.00
Jul 2018	DAUS	15.82 Call	500	8.4192	4.5401	0.0000	0.0000	0	0.00
Jul 2018	DAUS	16.32 Call	500	4.8138	2.5923	0.0000	0.0000	0	0.00
Aug 2018	DAUS	12.32 Put	1,880	138.4482	181.7736	0.0000	0.0000	0	0.00

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
Aug 2018	DAUS	13.86 Put	1,880	1108.2115	1254.1303	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.18 Call	1,880	6.8520	3.5995	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	13.80 Put	1,000	1064.7910	1200.8446	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.05 Call	500	14.9278	7.6637	0.0000	0.0000	0	0.00		
Aug 2018	DAUS	16.57 Call	500	7.0402	3.2506	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	13.80 Put	1,000	1074.7886	1202.0848	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	16.25 Call	500	26.2507	16.0931	0.0000	0.0000	0	0.00		
Sep 2018	DAUS	16.80 Call	500	15.7850	8.7060	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.80 Put	1,000	1085.3141	1204.0321	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	16.47 Call	500	44.0874	30.7601	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	17.02 Call	500	30.8380	18.7405	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	11.90 Put	1,880	113.7184	135.1193	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.86 Put	1,880	1132.9534	1252.8827	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.81 Call	1,880	39.4233	25.3295	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	10.83 Put	51,000	20.6625	22.0914	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	11.67 Put	51,000	81.9968	93.4177	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.22 Call	51,000	500.9929	399.0626	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.80 Put	1,000	1094.1066	1206.4464	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.70 Call	500	58.6706	42.6927	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	17.31 Call	500	38.5515	24.2048	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.65 Put	20,000	986.6877	1090.4270	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	15.69 Call	20,000	108.1618	79.6149	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	13.80 Put	1,000	1101.0613	1208.4528	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	16.93 Call	500	72.8818	49.9264	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	17.58 Call	500	46.1968	28.7060	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.00 Put	2,500	634.6994	0.0000	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	13.49 Call	2,500	738.1237	0.0000	0.0000	0.0000	2,500	0.00		
			<u>521,236</u>					<u>2,500.00</u>	<u>0.00</u>	<u>18 721 415.00</u>	<u>0.00</u>
Total			758,184					7,149.00	59,408,346.60	28 668 329.00	120 775 695 932.90
Future											
Jun 2018	EUUS	Future	220	1.1794	1.1815	0.0000	0.0000	0	0.00		
			<u>220</u>					<u>0.00</u>	<u>0.00</u>	<u>709 086.00</u>	<u>8 032 445 472.00</u>
Total			220					0.00	0.00	709 086.00	8 032 445 472.00
Future											
Sep 2018	JYZA	Future	283	8.4851	8.6195	0.0000	0.0000	0	0.00		
			<u>283</u>					<u>0.00</u>	<u>0.00</u>	<u>18 783.00</u>	<u>186 145 988.86</u>
Option											
Jun 2018	JYZA	8.89 Put	1,200	2970.8143	2149.4043	0.0000	0.0000	0	0.00		
Sep 2018	JYZA	8.17 Put	50,000	1933.4780	1658.3900	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
			51,200					0.00	0.00	75 800.00	0.00	
		Total	51,483					0.00	0.00	94 583.00	186 145 988.86	
Future												
	Jun 2018	ZAAD	Future	12,585	9.6122	9.4711	9.6114	9.6020	501	4,812,955.70		
	Sep 2018	ZAAD	Future	750	9.7340	9.5902	9.6819	9.6819	250	2,420,475.00		
	Dec 2018	ZAAD	Future	11,412	9.8526	9.7058	0.0000	0.0000	0	0.00		
				24,747					751.00	7,233,430.70	3 620 940.00	31 362 107 541.60
		Total	24,747					751.00	7,233,430.70	3 653 317.00	31 362 107 541.60	
Future												
	Jun 2018	ZACA	Future	1,950	9.9387	9.8538	9.9571	9.9378	250	2,485,415.00		
				1,950					250.00	2,485,415.00	132 193.00	1 298 704 672.10
		Total	1,950					250.00	2,485,415.00	132 193.00	1 298 704 672.10	
Future												
	Jun 2018	ZAEU	Future	111,337	15.0794	14.8906	15.1499	15.0196	5,435	81,930,613.20		
	Sep 2018	ZAEU	Future	61,407	15.3684	15.1741	15.3978	15.3075	400	6,136,545.00		
	Dec 2018	ZAEU	Future	7,625	15.6528	15.4528	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	Future	4,686	15.9698	15.7624	0.0000	0.0000	0	0.00		
	Jun 2019	ZAEU	Future	5,256	16.2485	16.0345	0.0000	0.0000	0	0.00		
				190,311					5,835.00	88,067,158.20	14 553 288.00	207 245 693 906.70
Option												
	Jun 2018	ZAEU	13.50 Put	29,734	4.1576	4.8327	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	13.75 Put	50,948	7.4924	8.1533	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	13.97 Put	6,460	11.9023	13.3521	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	14.25 Put	29,734	22.1809	32.3877	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	14.30 Call	10,000	804.2884	630.6173	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	14.40 Call	10,000	713.9438	549.7398	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	15.00 Call	3,000	298.4884	199.1448	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	15.25 Put	50,948	363.4207	481.5498	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	15.63 Call	29,734	95.0622	55.7135	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	16.00 Call	3,000	43.8945	22.1869	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	16.44 Put	6,460	1375.1866	1556.3263	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	18.61 Call	6,460	0.9557	0.5137	0.0000	0.0000	0	0.00		
	Jun 2018	ZAEU	20.55 Call	50,948	0.1549	0.0284	0.0000	0.0000	0	0.00		
	Sep 2018	ZAEU	13.50 Put	29,734	22.8026	23.2313	0.0000	0.0000	0	0.00		
	Sep 2018	ZAEU	14.25 Put	86,688	93.0410	116.6687	0.0000	0.0000	0	0.00		
	Sep 2018	ZAEU	15.85 Put	86,824	824.4310	937.9542	0.0000	0.0000	0	0.00		
	Sep 2018	ZAEU	16.76 Call	29,734	158.5169	113.9087	0.0000	0.0000	0	0.00		
	Sep 2018	ZAEU	19.56 Call	86,824	16.2122	10.8782	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
			607,230					0.00	0.00	7 919 774.00	0.00
		Total	797,541					5,835.00	88,067,158.20	22 473 062.00	207 245 693 906.70
Future											
	Jun 2018 ZAFR	Future	1,215	12.8313	12.6007	0.0000	0.0000	0	0.00		
			1,215					0.00	0.00	609 303.00	6 506 705 521.30
		Total	1,215					0.00	0.00	609 303.00	6 506 705 521.30
Future											
	Jun 2018 ZAGB	Future	428,041	17.2515	17.0400	17.3290	17.1564	3,158	54,344,022.10		
	Sep 2018 ZAGB	Future	18,594	17.5341	17.3173	17.5700	17.4715	403	7,055,964.70		
	Dec 2018 ZAGB	Future	7,517	17.8060	17.5835	0.0000	0.0000	0	0.00		
	Mar 2019 ZAGB	Future	4,932	18.1042	17.8715	0.0000	0.0000	0	0.00		
	Jun 2019 ZAGB	Future	5,465	18.3747	18.1395	0.0000	0.0000	0	0.00		
			464,549					3,561.00	61,399,986.80	10 793 249.00	180 782 322 867.40
Option											
	Jun 2018 ZAGB	17.50 Put	500	466.2538	600.8550	0.0000	0.0000	0	0.00		
	Jun 2018 ZAGB	20.40 Call	500	2.1553	1.1610	0.0000	0.0000	0	0.00		
			1,000					0.00	0.00	1 774 113.00	0.00
		Total	465,549					3,561.00	61,399,986.80	12 567 362.00	180 782 322 867.40
Future											
	Jun 2018 ZAJY	Future	8,296	0.1157	0.1139	0.0000	0.0000	0	0.00		
			8,296					0.00	0.00	985 278.00	10 983 324 643.00
		Total	8,296					0.00	0.00	985 278.00	10 983 324 643.00
Future											
	Jun 2018 ZAKS	Future	1,145	0.1268	0.1250	0.0000	0.0000	0	0.00		
	Sep 2018 ZAKS	Future	562	0.1263	0.1245	0.0000	0.0000	0	0.00		
			1,707					0.00	0.00	31 923.00	432 652 210.00
		Total	1,707					0.00	0.00	31 923.00	432 652 210.00
Future											
	Jun 2018 ZATR	Future	3,940	2.8234	2.8021	0.0000	0.0000	0	0.00		
			3,940					0.00	0.00	258 929.00	923 231 285.50
		Total	3,940					0.00	0.00	258 929.00	923 231 285.50
Future											
	Jun 2018 ZAUM	Future	419	12.7862	12.6027	12.8315	12.7139	28	35,758,420.00		
	Sep 2018 ZAUM	Future	47	12.9393	12.7524	0.0000	0.0000	0	0.00		
	Dec 2018 ZAUM	Future	10	13.0841	12.8933	0.0000	0.0000	0	0.00		

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME		
			476					28.00	35,758,420.00	150 772.00	173 715 926 200.00
	Total		476					28.00	35,758,420.00	155 295.00	173 715 926 200.00

Future

Jun 2018	ZAUS	Future	1,144,028	12.7862	12.6027	12.8500	12.5660	70,212	895,009,338.10		
Sep 2018	ZAUS	Future	93,328	12.9393	12.7524	13.0000	12.8000	800	10,320,482.70		
Dec 2018	ZAUS	Future	25,925	13.0841	12.8933	13.1387	12.9350	1,111	14,516,834.20		
Mar 2019	ZAUS	Future	4,948	13.2366	13.0390	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	Future	3,087	13.3750	13.1728	0.0000	0.0000	0	0.00		
			<u>1,271,316</u>					<u>72,123.00</u>	<u>919,846,655.00</u>	<u>173 271 435.00</u>	<u>2 043 541 275 060.40</u>

Option

Jun 2018	ZAUS	11.00 Put	60,750	0.7842	1.0430	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.20 Put	2,550	1.5626	2.1578	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.35 Call	10,000	1438.8024	1256.3877	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.45 Call	10,000	1339.8426	1157.6417	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.50 Put	40,216	4.3030	5.7268	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.60 Put	12,000	5.7256	7.7065	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.75 Put	60,000	8.8153	12.0879	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.77 Put	76,000	9.3395	12.8405	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.80 Put	5,500	10.1861	14.0604	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	11.90 Put	9,500	13.6123	19.0471	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.00 Call	3,000	804.4059	630.8886	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.00 Put	38,700	18.2059	28.1886	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.06 Put	150	21.6788	36.9505	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.12 Put	372	25.8139	47.6117	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.14 Put	155,500	27.3599	51.6227	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.15 Call	500	664.3791	506.4179	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.15 Put	1,000	28.1791	53.7179	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.20 Call	40,000	621.5791	467.8226	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.23 Call	3,000	596.5069	445.4350	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.25 Call	40,000	580.0614	430.8434	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.25 Put	12,415	43.8614	78.1434	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.30 Call	4,000	539.9347	395.5648	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.30 Put	24,500	53.7347	92.8648	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.40 Put	15,103	78.0364	127.6548	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.45 Call	150	428.8239	300.5053	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.50 Call	6,550	395.1175	272.5204	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.50 Put	115,480	108.9175	169.8204	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.55 Call	80,000	363.1585	246.3950	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.75 Put	66	216.8681	310.8883	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	12.96 Put	2,700	343.3067	461.8899	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.00 Call	15,500	156.7911	95.8724	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>
Jun 2018	ZAUS	13.00 Put	21,228	370.5911	493.1724	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.05 Put	1,250	405.9112	533.2395	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.17 Put	965	495.6982	633.2653	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.20 Put	372	519.1494	659.0238	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.30 Put	25,500	599.8646	746.4901	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.35 Call	60,000	77.7498	43.7773	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.46 Put	5,183	735.8580	891.1261	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.48 Put	7,420	753.2146	909.5714	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.50 Put	114,600	770.6790	928.0877	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.64 Put	70,530	895.6085	1059.4330	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.75 Put	2,415	996.5515	1164.3783	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.80 Put	500	1043.0983	1212.4832	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.81 Put	40,000	1052.4521	1222.1306	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.83 Put	300	1071.2011	1241.4503	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.84 Put	500	1080.5963	1251.1218	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	13.90 Put	1,000	1137.2336	1309.2070	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.00 Call	30,000	18.7372	9.2562	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.00 Put	500	1232.5372	1406.5562	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.10 Put	7,028	1328.7839	1504.4928	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.25 Put	2,000	1474.3972	1652.2283	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.53 Call	7,600	5.5607	2.4440	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.71 Call	50	3.6877	1.5658	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	14.81 Call	500	2.9412	1.2258	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.11 Call	760	1.5087	0.6122	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.14 Call	2,700	1.4127	0.6168	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.22 Call	372	1.1868	0.6299	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.30 Call	24,500	0.9986	0.6439	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.43 Call	15,000	0.8939	0.6687	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.50 Call	114,600	0.8921	0.6831	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.53 Call	965	0.8918	0.6895	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	15.79 Call	40,000	0.8981	0.7502	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	16.16 Call	5,183	0.9309	0.8532	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	16.38 Call	750	0.9616	0.9239	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	16.41 Call	300	0.9664	0.9110	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	16.49 Call	7,420	0.9797	0.7643	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	16.52 Call	66	0.9850	0.7153	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	16.65 Call	500	1.0093	0.5356	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	16.92 Call	2,415	0.5649	0.2900	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	17.00 Call	3,500	0.4741	0.2410	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	17.21 Call	500	0.2973	0.1474	0.0000	0.0000	0	0.00
Jun 2018	ZAUS	17.38 Call	7,028	0.2024	0.0983	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.48 Put	5,200	32.8909	36.4379	0.0000	0.0000	0	0.00

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Sep 2018	ZAUS	11.50 Put	45,000	33.9414	37.6782	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.60 Put	2,000	39.7118	49.2377	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.75 Put	93,314	55.4463	71.4418	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.85 Put	48,200	70.4770	89.8822	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	11.90 Put	3,000	79.0284	100.2916	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.00 Put	13,300	98.3538	123.6401	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.25 Call	500	850.1518	702.4945	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.30 Put	100	175.9571	218.6237	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.38 Put	60,000	203.2654	250.3849	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.50 Call	4,600	688.1659	555.2878	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.50 Put	24,000	248.8659	302.8878	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.58 Put	8,000	282.3662	341.0984	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.61 Put	13,231	295.5658	356.0790	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.65 Put	1,550	313.7007	376.6012	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.77 Call	5,200	541.0383	424.6169	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.80 Call	50	526.3870	412.3444	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	12.85 Put	750	413.3971	490.2104	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.00 Call	20,000	437.6290	338.5919	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.20 Call	4,000	364.3331	277.5912	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Call	1,250	347.9349	264.1215	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.25 Put	73,314	658.6349	761.7215	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.30 Call	1,500	332.2601	251.3072	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.50 Call	3,000	276.2557	205.9591	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	13.65 Call	1,464	240.5477	177.4864	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	15.97 Call	5,300	23.9959	12.8545	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.04 Call	1,550	21.7826	11.5091	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.14 Call	750	18.9394	9.8078	0.0000	0.0000	0	0.00
Sep 2018	ZAUS	16.29 Call	73,314	15.2984	7.6814	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.64 Put	2,764	92.3611	102.4400	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	277.8733	318.9591	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	150	908.1288	765.0637	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	10,100	324.0288	371.7637	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	380.6001	434.0655	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	652.9103	533.3163	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	570.8468	461.7832	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	552.0491	445.4448	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	2,764	382.3720	301.4192	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	346.7779	271.7795	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	1,500	335.7375	262.6392	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	1,000	173.9775	129.1280	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.95 Call	2,000	97.1450	71.5070	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	10.33 Put	1,000	10.8225	10.2329	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	11.74 Put	1,000	146.7618	167.7569	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.06 Put	4,145	229.3926	255.2845	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	12.76 Put	250	493.2691	546.8442	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	13.45 Call	4,145	669.8402	553.6472	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	14.48 Call	1,000	391.0225	312.4734	0.0000	0.0000	0	0.00	
Mar 2019	ZAUS	15.20 Call	1,000	268.7149	208.7932	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	10.69 Put	1,000	15.4394	23.2490	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	12.28 Put	1,000	343.8654	373.1027	0.0000	0.0000	0	0.00	
Jun 2019	ZAUS	13.13 Call	0	971.9194	831.1305	0.0000	0.0000	3,000	0.00	
Jun 2019	ZAUS	14.58 Call	1,000	507.3245	415.9895	0.0000	0.0000	0	0.00	
Dec 2019	ZAUS	20.00 Call	2,000	132.3527	99.3053	0.0000	0.0000	0	0.00	
			<u>2,164,324</u>					<u>3,000.00</u>	<u>0.00</u>	<u>48 172 704.00</u>
		Total	3,435,640					75,123.00	919,846,655.00	221 444 139.00
										2 043 541 275 060.40

Grand Total	5,551,023					92,697.00	1 174 199 412.30	302,588,760	2,843,352,463,076.18
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