



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 23-October-2018

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME		CUMULATIVE VOLUME	
Future											
Nov 2018	DAEU	Future	37	16.6423	16.5125	0.0000	0.0000	0	0.00		
			<u>37</u>					<u>0.00</u>	<u>0.00</u>	<u>801 399.00</u>	<u>11 967 156 360.40</u>
Option											
Aug 2019	DAEU	17.01 Put	31,200	758.0958	817.4654	0.0000	0.0000	0	0.00		
Aug 2019	DAEU	19.65 Call	62,400	544.1613	511.9438	0.0000	0.0000	0	0.00		
			<u>93,600</u>					<u>0.00</u>	<u>0.00</u>	<u>1 390 587.00</u>	<u>0.00</u>
		Total	93,637					0.00	0.00	2 191 986.00	11 967 156 360.40
Future											
Nov 2018	DAGB	Future	13	18.8231	18.6586	0.0000	0.0000	0	0.00		
			<u>13</u>					<u>0.00</u>	<u>0.00</u>	<u>53 954.00</u>	<u>889 067 608.60</u>
		Total	13					0.00	0.00	261 267.00	889 067 608.60
Future											
Oct 2018	DAUS	Future	70	14.4199	14.2873	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	225	14.4254	14.2945	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	2,500	14.4272	14.2963	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	Future	3,606	14.4290	14.2981	0.0000	0.0000	252	3,630,800.00		
Nov 2018	DAUS	Future	55	14.4308	14.3000	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	70	14.4528	14.3219	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	24	14.4564	14.3255	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	308	14.4583	14.3273	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	179	14.4693	14.3383	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	166	14.4803	14.3492	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	461	14.4821	14.3510	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	Future	6,044	14.4839	14.3529	0.0000	0.0000	280	4,046,720.00		
Dec 2018	DAUS	Future	500	14.4968	14.3656	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,672	14.5060	14.3747	0.0000	0.0000	0	0.00		
Dec 2018	DAUS	Future	3,594	14.5410	14.4095	0.0000	0.0000	120	1,742,400.00		
Jan 2019	DAUS	Future	55	14.5446	14.4132	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>		
Jan 2019	DAUS	Future	55	14.5961	14.4648	0.0000	0.0000	0	0.00		
Jan 2019	DAUS	Future	1,020	14.5980	14.4666	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	70	14.6215	14.4900	0.0000	0.0000	0	0.00		
Feb 2019	DAUS	Future	5,787	14.6486	14.5170	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,731	14.6975	14.5656	0.0000	0.0000	0	0.00		
Mar 2019	DAUS	Future	3,029	14.7011	14.5692	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	55	14.7083	14.5764	0.0000	0.0000	0	0.00		
Apr 2019	DAUS	Future	1,280	14.7591	14.6269	0.0000	0.0000	0	0.00		
May 2019	DAUS	Future	55	14.8159	14.6829	0.0000	0.0000	0	0.00		
Jul 2019	DAUS	Future	55	14.8727	14.7389	0.0000	0.0000	0	0.00		
Aug 2019	DAUS	Future	55	14.9300	14.7951	0.0000	0.0000	0	0.00		
Sep 2019	DAUS	Future	55	14.9904	14.8541	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.0471	14.9093	0.0000	0.0000	0	0.00		
Oct 2019	DAUS	Future	55	15.1025	14.9638	0.0000	0.0000	0	0.00		
Dec 2019	DAUS	Future	55	15.1665	15.0278	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2284	15.0897	0.0000	0.0000	0	0.00		
Jan 2020	DAUS	Future	55	15.2863	15.1476	0.0000	0.0000	0	0.00		
Mar 2020	DAUS	Future	55	15.3483	15.2096	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4102	15.2715	0.0000	0.0000	0	0.00		
Apr 2020	DAUS	Future	55	15.4642	15.3255	0.0000	0.0000	0	0.00		
Jun 2020	DAUS	Future	1,055	15.5321	15.3934	0.0000	0.0000	0	0.00		
Jul 2020	DAUS	Future	84,000	15.6440	15.5053	0.0000	0.0000	0	0.00		
			<u>122,271</u>					<u>652.00</u>	<u>9,419,920.00</u>	<u>10 750 460.00</u>	<u>131 669 049 029.50</u>
Option											
Oct 2018	DAUS	13.00 Put	500	0.2338	0.5529	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.80 Put	1,000	8.4167	22.3160	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.93 Call	500	517.4579	409.4308	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	13.97 Put	600	23.0236	49.2426	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.25 Put	250	84.7016	140.5030	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.34 Put	171	118.6513	186.8687	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.44 Call	171	154.7035	107.6942	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.45 Call	600	149.9558	104.4429	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.67 Call	250	73.9472	51.2411	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.82 Put	114	434.2023	552.3684	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	14.90 Call	600	31.9194	22.8905	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	15.01 Call	114	20.7175	15.4121	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	16.47 Call	500	0.3222	0.2843	0.0000	0.0000	0	0.00		
Oct 2018	DAUS	17.02 Call	500	0.0737	0.0833	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	14.00 Put	20,000	33.1009	65.3268	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	11.90 Put	1,880	0.0422	0.0732	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	13.86 Put	1,880	17.7525	39.6082	0.0000	0.0000	0	0.00		
Nov 2018	DAUS	16.81 Call	1,880	0.7363	0.6069	0.0000	0.0000	0	0.00		

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Nov 2018	DAUS	14.34 Put	171	212.1718	279.2529	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.50 Call	171	252.7149	203.1884	0.0000	0.0000	0	0.00
Nov 2018	DAUS	10.83 Put	51,000	0.0248	0.0334	0.0000	0.0000	0	0.00
Nov 2018	DAUS	11.67 Put	51,000	0.0860	0.1364	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.22 Call	51,000	1247.6079	1121.4782	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.32 Call	15,000	347.2845	281.7055	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.72 Call	5,000	182.4424	146.4490	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.74 Call	5,000	176.4907	141.6136	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.78 Call	30,000	165.1195	132.3928	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Call	5,000	137.2510	109.9058	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.89 Put	15,000	568.9510	672.6058	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.00 Put	500	6.4348	11.1340	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.80 Put	1,000	85.2269	117.2287	0.0000	0.0000	0	0.00
Nov 2018	DAUS	13.85 Put	600	97.1604	131.9480	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.08 Call	500	570.5967	487.9437	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.25 Put	250	234.3722	293.0260	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.30 Call	600	440.8566	371.5134	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.80 Call	600	235.3990	196.7523	0.0000	0.0000	0	0.00
Nov 2018	DAUS	14.82 Call	250	229.4654	191.7339	0.0000	0.0000	0	0.00
Nov 2018	DAUS	16.70 Call	500	14.3215	12.9662	0.0000	0.0000	0	0.00
Nov 2018	DAUS	17.31 Call	500	4.6623	5.3092	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.45 Put	23,000	1074.4237	1185.7498	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	30,000	125.8171	164.2187	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	30,000	276.3120	337.0961	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	30,000	639.6995	733.6643	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	30,000	950.8646	1057.6530	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.65 Put	20,000	77.8685	102.9263	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.86 Put	7,500	126.2436	163.0231	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.08 Call	7,500	209.6966	176.7297	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.69 Call	20,000	104.7297	87.8375	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.90 Put	35,000	159.9416	198.8547	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.30 Put	35,000	316.8109	376.0613	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.90 Put	35,000	674.4657	762.9916	0.0000	0.0000	0	0.00
Dec 2018	DAUS	15.30 Put	35,000	976.0634	1077.4729	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.20 Put	1,000	32.9579	44.1768	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.30 Put	1,000	43.0936	56.9298	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.66 Call	1,000	380.3392	326.8583	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.75 Call	1,000	347.9512	298.3943	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.00 Put	500	27.2253	32.3379	0.0000	0.0000	0	0.00
Dec 2018	DAUS	13.80 Put	1,000	147.8939	183.2934	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.22 Call	500	622.1207	545.6737	0.0000	0.0000	0	0.00
Dec 2018	DAUS	14.25 Put	250	314.6273	371.0947	0.0000	0.0000	0	0.00

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Dec 2018	DAUS	14.96 Put	250	733.6259	822.6972	0.0000	0.0000	0	0.00
Dec 2018	DAUS	16.93 Call	500	49.5273	42.7027	0.0000	0.0000	0	0.00
Dec 2018	DAUS	17.58 Call	500	26.2561	20.6509	0.0000	0.0000	0	0.00
Jan 2019	DAUS	12.66 Put	263	24.7208	29.3523	0.0000	0.0000	0	0.00
Jan 2019	DAUS	13.00 Put	500	50.7648	57.6457	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.20 Put	250	349.4225	405.0149	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.25 Put	250	372.2515	429.9272	0.0000	0.0000	0	0.00
Jan 2019	DAUS	14.38 Call	500	653.3555	584.9749	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.13 Call	250	370.0094	329.8949	0.0000	0.0000	0	0.00
Jan 2019	DAUS	15.47 Call	250	286.4692	255.4249	0.0000	0.0000	0	0.00
Feb 2019	DAUS	13.00 Put	500	72.4081	81.5309	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.20 Put	250	395.6942	450.8378	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.25 Put	250	418.9545	476.0363	0.0000	0.0000	0	0.00
Feb 2019	DAUS	14.52 Call	500	685.4287	621.2688	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.27 Call	250	419.9184	380.2836	0.0000	0.0000	0	0.00
Feb 2019	DAUS	15.63 Call	250	333.3378	302.5696	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.00 Put	65,000	346.3478	394.1390	0.0000	0.0000	15,000	0.00
Mar 2019	DAUS	13.00 Put	500	93.5737	105.5734	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.20 Put	250	436.8235	491.7731	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.25 Put	250	460.3454	517.0682	0.0000	0.0000	0	0.00
Mar 2019	DAUS	14.67 Call	500	714.3123	654.0157	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.43 Call	250	460.8719	422.4830	0.0000	0.0000	0	0.00
Mar 2019	DAUS	15.79 Call	250	377.0495	346.6150	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.00 Put	3,000	113.3621	129.7209	0.0000	0.0000	0	0.00
Apr 2019	DAUS	13.49 Call	2,500	1487.2399	1383.1039	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.20 Put	250	474.6628	528.3452	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.25 Put	250	498.3731	553.7550	0.0000	0.0000	0	0.00
Apr 2019	DAUS	14.84 Call	500	741.3575	683.6040	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.61 Call	250	499.3259	461.4285	0.0000	0.0000	0	0.00
Apr 2019	DAUS	15.96 Call	250	420.3087	389.2869	0.0000	0.0000	0	0.00
May 2019	DAUS	13.00 Put	500	130.2637	149.8284	0.0000	0.0000	0	0.00
May 2019	DAUS	14.20 Put	250	509.1358	562.3315	0.0000	0.0000	0	0.00
May 2019	DAUS	14.25 Put	250	533.0668	587.8126	0.0000	0.0000	0	0.00
May 2019	DAUS	15.01 Call	500	768.4541	711.7841	0.0000	0.0000	0	0.00
May 2019	DAUS	15.79 Call	250	536.4213	497.5584	0.0000	0.0000	0	0.00
May 2019	DAUS	16.15 Call	250	457.9503	425.3880	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.72 Put	20,000	804.7006	872.7845	0.0000	0.0000	0	0.00
Jun 2019	DAUS	17.22 Call	20,000	323.8843	300.8559	0.0000	0.0000	0	0.00
Jun 2019	DAUS	13.00 Put	500	143.3532	165.1486	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.20 Put	250	536.8512	589.7494	0.0000	0.0000	0	0.00
Jun 2019	DAUS	14.25 Put	250	560.9296	615.2620	0.0000	0.0000	0	0.00
Jun 2019	DAUS	15.17 Call	500	789.4564	733.5488	0.0000	0.0000	0	0.00

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Jun 2019	DAUS	15.96 Call	250	565.6014	525.7836	0.0000	0.0000	0	0.00
Jun 2019	DAUS	16.32 Call	250	489.5392	454.5383	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.45 Put	39,250	263.9425	293.8998	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.44 Call	39,250	477.2682	442.4907	0.0000	0.0000	0	0.00
Jul 2019	DAUS	13.00 Put	500	154.8394	181.6842	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.20 Put	250	565.5166	618.5861	0.0000	0.0000	0	0.00
Jul 2019	DAUS	14.25 Put	250	589.6838	644.0730	0.0000	0.0000	0	0.00
Jul 2019	DAUS	15.34 Call	500	818.9221	763.0629	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.14 Call	250	601.7544	560.5513	0.0000	0.0000	0	0.00
Jul 2019	DAUS	16.50 Call	250	527.0369	489.4530	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.48 Put	3,147	718.0856	778.2737	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.35 Call	3,147	585.6732	545.4617	0.0000	0.0000	0	0.00
Aug 2019	DAUS	13.00 Put	500	168.3539	195.1419	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.20 Put	250	591.4096	642.7161	0.0000	0.0000	0	0.00
Aug 2019	DAUS	14.25 Put	250	614.0716	668.1808	0.0000	0.0000	0	0.00
Aug 2019	DAUS	15.52 Call	500	838.0074	782.4092	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.33 Call	250	627.9907	586.1498	0.0000	0.0000	0	0.00
Aug 2019	DAUS	16.70 Call	250	552.2470	514.1242	0.0000	0.0000	0	0.00
Sep 2019	DAUS	19.00 Call	20,000	296.5693	283.0634	0.0000	0.0000	0	0.00
Sep 2019	DAUS	13.00 Put	500	182.7767	209.6248	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.20 Put	250	614.7398	664.3684	0.0000	0.0000	0	0.00
Sep 2019	DAUS	14.25 Put	250	637.4834	689.7784	0.0000	0.0000	0	0.00
Sep 2019	DAUS	15.68 Call	500	863.8344	807.8194	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.50 Call	250	658.1342	614.1462	0.0000	0.0000	0	0.00
Sep 2019	DAUS	16.89 Call	250	579.3695	540.1248	0.0000	0.0000	0	0.00
Oct 2019	DAUS	13.00 Put	500	197.5275	225.5041	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.20 Put	250	638.5088	686.8536	0.0000	0.0000	0	0.00
Oct 2019	DAUS	14.25 Put	250	661.3978	712.2315	0.0000	0.0000	0	0.00
Oct 2019	DAUS	15.87 Call	500	883.3501	828.3510	0.0000	0.0000	0	0.00
Oct 2019	DAUS	16.70 Call	250	683.2943	638.9934	0.0000	0.0000	0	0.00
Oct 2019	DAUS	17.09 Call	250	606.9995	567.5326	0.0000	0.0000	0	0.00
Nov 2019	DAUS	13.00 Put	500	212.3822	241.7248	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.20 Put	250	660.9609	709.2554	0.0000	0.0000	0	0.00
Nov 2019	DAUS	14.25 Put	250	684.0777	733.1909	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.03 Call	500	912.1961	857.8077	0.0000	0.0000	0	0.00
Nov 2019	DAUS	16.87 Call	250	714.2015	670.3867	0.0000	0.0000	0	0.00
Nov 2019	DAUS	17.26 Call	250	639.6897	600.5980	0.0000	0.0000	0	0.00
Dec 2019	DAUS	13.00 Put	500	230.2614	259.2419	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.20 Put	250	682.7252	731.7665	0.0000	0.0000	0	0.00
Dec 2019	DAUS	14.25 Put	250	706.0227	756.0437	0.0000	0.0000	0	0.00
Dec 2019	DAUS	16.21 Call	500	940.7053	886.8658	0.0000	0.0000	0	0.00
Dec 2019	DAUS	17.05 Call	250	747.5792	704.1181	0.0000	0.0000	0	0.00

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Dec 2019	DAUS	17.44 Call	250	674.8882	635.6346	0.0000	0.0000	0	0.00	
			849,709					15,000.00	0.00	21 034 416.00
		Total	971,980					15,652.00	9,419,920.00	31 784 876.00 131 669 049 029.50
Future										
Dec 2018	EUUS	Future	40	1.1503	1.1517	0.0000	0.0000	0	0.00	
			40					0.00	0.00	744 445.00 8 445 126 755.00
		Total	40					0.00	0.00	744 445.00 8 445 126 755.00
Future										
Dec 2018	GBUS	Future	30	1.3004	1.3008	0.0000	0.0000	0	0.00	
			30					0.00	0.00	169 421.00 2 180 058 224.00
		Total	30					0.00	0.00	169 421.00 2 180 058 224.00
Future										
Dec 2018	JYZA	Future	80,000	7.6991	7.8187	0.0000	0.0000	80,000	794,846,732.16	
			80,000					80,000.00	794,846,732.16	100 549.00 998 536 122.66
		Total	80,000					80,000.00	794,846,732.16	376 349.00 998 536 122.66
Future										
Dec 2018	ZAAD	Future	32,165	10.2506	10.1997	0.0000	0.0000	0	0.00	
Mar 2019	ZAAD	Future	420	10.3857	10.3350	0.0000	0.0000	0	0.00	
Jun 2019	ZAAD	Future	4,929	10.5163	10.4650	0.0000	0.0000	0	0.00	
			37,514					0.00	0.00	3 743 722.00 32 631 205 458.40
		Total	37,514					0.00	0.00	3 776 099.00 32 631 205 458.40
Future										
Dec 2018	ZACA	Future	600	11.0809	10.9901	0.0000	0.0000	0	0.00	
			600					0.00	0.00	137 653.00 1 355 055 071.60
		Total	600					0.00	0.00	137 653.00 1 355 055 071.60
Future										
Dec 2018	ZADK	Future	240	2.2606	2.2425	0.0000	0.0000	0	0.00	
			240					0.00	0.00	12 335.00 265 809 909.00
		Total	240					0.00	0.00	12 335.00 265 809 909.00
Future										
Dec 2018	ZAEU	Future	106,373	16.6908	16.5599	16.7197	16.6745	453	7,563,376.50	
Mar 2019	ZAEU	Future	36,311	17.0363	16.9055	0.0000	0.0000	0	0.00	
Jun 2019	ZAEU	Future	4,906	17.3614	17.2287	0.0000	0.0000	0	0.00	
Sep 2019	ZAEU	Future	8,262	17.7238	17.5865	0.0000	0.0000	0	0.00	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME			
			155,852					453.00	7,563,376.50	15 587 185.00	224 125 371 252.70	
Option												
	Mar 2019	ZAEU	15.60 Put	462	155.6765	177.8889	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	16.00 Call	650	1294.9732	1196.6486	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	17.33 Put	462	911.5868	988.9407	0.0000	0.0000	0	0.00		
	Mar 2019	ZAEU	19.65 Call	462	175.2919	158.7909	0.0000	0.0000	0	0.00		
			2,036					0.00	0.00	10 794 964.00	0.00	
	Total		157,888					453.00	7,563,376.50	26 382 149.00	224 125 371 252.70	
Future												
	Dec 2018	ZAFR	Future	1,748	14.6444	14.4846	0.0000	0.0000	0	0.00		
	Jun 2019	ZAFR	Future	150	15.2646	15.1012	0.0000	0.0000	0	0.00		
			1,898					0.00	0.00	620 576.00	6 667 908 161.60	
	Total		1,898					0.00	0.00	620 576.00	6 667 908 161.60	
Future												
	Dec 2018	ZAGB	Future	438,737	18.8685	18.7034	18.8200	18.8200	1,289	24,382,578.00		
	Mar 2019	ZAGB	Future	8,144	19.1902	19.0243	0.0000	0.0000	0	0.00		
	Jun 2019	ZAGB	Future	5,506	19.4890	19.3215	0.0000	0.0000	0	0.00		
	Sep 2019	ZAGB	Future	10,363	19.8204	19.6475	0.0000	0.0000	0	0.00		
			462,750					1,289.00	24,382,578.00	12 833 222.00	218 360 165 252.70	
Option												
	Dec 2018	ZAGB	19.30 Call	200	330.3072	277.2274	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	18.00 Put	500	345.7710	383.0397	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	19.19 Put	1,000	836.8804	921.3588	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.00 Call	500	535.1046	480.7065	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	20.18 Call	1,500	482.9159	435.0809	0.0000	0.0000	0	0.00		
	Mar 2019	ZAGB	21.44 Call	500	235.8702	214.1360	0.0000	0.0000	0	0.00		
			4,200					0.00	0.00	1 779 113.00	0.00	
	Total		466,950					1,289.00	24,382,578.00	14 612 335.00	218 360 165 252.70	
Future												
	Dec 2018	ZAJY	Future	6,905	0.1299	0.1279	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	0.1416	0.1397	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	

DATE	CONTRACT		OPEN INT	MTM	PREV MTM	HIGH	LOW	DAILY VOLUME	CUMULATIVE VOLUME
Future									
Dec 2018	ZATR	Future	10,000	2.4299	2.4606	0.0000	0.0000	0	0.00
			<u>10,000</u>					<u>0.00</u>	<u>0.00</u>
		Total	10,000					0.00	0.00
									385 239.00 1 233 437 569.00
									385 239.00 1 233 437 569.00
Future									
Dec 2018	ZAUM	Future	320	14.5097	14.3783	0.0000	0.0000	0	0.00
Mar 2019	ZAUM	Future	10	14.6812	14.5494	0.0000	0.0000	0	0.00
			<u>330</u>					<u>0.00</u>	<u>0.00</u>
		Total	330					0.00	0.00
									153 091.00 176 958 782 860.00
									157 614.00 176 958 782 860.00
Future									
Dec 2018	ZAUS	Future	831,857	14.5097	14.3783	14.5405	14.4409	51,590	747,453,944.10
Mar 2019	ZAUS	Future	55,513	14.6812	14.5494	14.6900	14.6333	250	3,667,665.00
Jun 2019	ZAUS	Future	19,226	14.8416	14.7081	14.7933	14.7933	280	4,155,901.00
Sep 2019	ZAUS	Future	19,899	15.0169	14.8799	0.0000	0.0000	0	0.00
Dec 2019	ZAUS	Future	2,200	15.1884	15.0497	0.0000	0.0000	0	0.00
Mar 2020	ZAUS	Future	3,966	15.3763	15.2376	0.0000	0.0000	0	0.00
			<u>932,661</u>					<u>52,120.00</u>	<u>755,277,510.10</u>
									188 188 447.00 2 255 197 981 719.60
Option									
Dec 2018	ZAUS	11.64 Put	2,764	2.1581	2.4974	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.75 Put	228,616	2.4922	2.8933	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	11.90 Put	11,300	3.0392	3.5448	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.00 Put	174,530	3.4745	4.0658	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.02 Put	5,500	3.5694	4.1797	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.10 Put	8,580	3.9777	4.6706	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.20 Put	7,300	4.5607	5.3741	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.25 Put	3,300	4.8864	5.7683	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.38 Put	39,589	5.8584	6.9498	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Call	228,616	2016.6460	1886.5789	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.50 Put	26,400	6.9460	8.2789	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.63 Put	39,589	8.3809	10.0430	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.68 Put	10,000	9.0174	10.8288	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.75 Put	1,000	10.0001	12.0458	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	12.95 Put	500	13.5283	16.4466	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Call	6,000	1524.3135	1397.7056	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.00 Put	177,520	14.6135	19.4056	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.05 Put	1,500	15.7964	22.7805	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.10 Put	11,300	18.6397	26.6111	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.20 Call	7,100	1335.2663	1214.0971	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.22 Put	5,500	27.1713	37.9004	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.25 Call	10,000	1289.4265	1169.5352	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	13.25 Put	17,800	29.7265	41.2352	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.32 Put	13,650	36.4295	49.8973	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.33 Put	135,000	37.4760	51.2400	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Call	500	1111.6443	997.8815	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.45 Put	4,080	51.9443	69.5815	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Call	228,616	1068.7946	956.8164	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.50 Put	29,800	59.0946	78.5164	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.60 Put	66,000	75.5877	98.8694	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.68 Put	13,150	91.0486	117.6833	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.70 Put	7,300	95.2487	122.7541	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.75 Put	700	106.3542	136.8290	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.79 Put	10,000	115.8798	148.8304	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Call	3,164	828.0566	730.2346	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.80 Put	500	118.3566	151.9346	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.90 Put	35,000	146.6131	185.2894	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	13.95 Call	39,589	721.9673	631.8649	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Call	20,200	688.6618	601.2118	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.00 Put	58,250	178.9618	222.9118	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.10 Put	1,867	215.5056	264.8324	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.12 Put	4,372	223.3215	273.7317	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.13 Call	20,000	606.9952	526.5433	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.15 Put	236,970	235.3660	287.3984	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.16 Put	36,200	239.4671	292.0398	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Call	51,000	565.9900	489.3285	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.20 Put	13,650	256.2900	311.0285	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.24 Put	24,570	273.7904	330.6880	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.25 Call	51,000	537.9706	464.0078	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.30 Put	35,000	301.3062	361.4251	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Call	100	495.3290	425.6487	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.33 Put	31,047	315.6290	377.3487	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Call	500	485.0837	416.4671	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.35 Put	4,428	325.3837	388.1671	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.39 Put	1,000	345.3925	410.2808	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.40 Call	100,000	460.1960	394.2087	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.44 Call	11,300	441.0187	377.8670	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Call	1,200	413.4577	354.5040	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.50 Put	15,500	403.7577	476.2040	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.51 Put	3,388	409.4895	482.4423	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.60 Call	84,900	372.5029	318.5040	0.0000	0.0000	4,050	0.00
Dec 2018	ZAUS	14.60 Put	3,500	462.8029	540.2040	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.61 Call	1,500	368.6172	315.0989	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.62 Call	5,500	364.7663	311.7260	0.0000	0.0000	0	0.00

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Dec 2018	ZAUS	14.67 Put	3,000	506.3662	587.0730	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.70 Call	70,000	335.2738	285.9544	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.74 Put	13,150	551.6725	635.5463	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Call	127,100	317.9836	270.8957	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.75 Put	700	558.2836	642.5957	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Call	400	301.5327	256.6045	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.80 Put	135,000	591.8327	678.3045	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.84 Call	1,000	288.9600	245.7019	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.85 Call	50,000	285.8944	243.0490	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	14.90 Put	35,000	661.3355	751.8957	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Call	101,333	243.5303	206.4833	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.00 Put	25,700	733.8303	828.1833	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.01 Call	10,000	240.9340	204.2517	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.09 Call	500	221.1328	187.2465	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.10 Call	500	218.7752	185.2234	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.15 Call	27,030	207.3555	175.2222	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.20 Call	4,050	196.5335	165.7606	0.0000	0.0000	4,050	0.00
Dec 2018	ZAUS	15.20 Put	50	886.8335	987.4606	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.25 Put	500	926.5832	1028.5125	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.30 Put	35,000	966.6017	1070.0526	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.37 Call	4,372	163.2157	137.2809	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.46 Call	1,867	147.8095	124.2812	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.48 Call	29,600	144.5895	121.5691	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Call	5,000	141.4422	118.9183	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.50 Put	600	1131.7422	1240.6183	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.51 Call	24,570	139.8931	117.6154	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.59 Call	31,047	128.1155	107.7134	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.60 Call	500	126.7152	106.5383	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.61 Call	4,428	125.3321	105.3767	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.70 Call	7,500	113.5583	95.5015	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.73 Call	135,000	109.8929	92.4314	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.84 Put	2,000	1427.7743	1543.7421	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.85 Call	20,300	96.4196	81.1614	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	15.91 Call	121,970	90.3434	75.6817	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.00 Call	5,050	81.6157	68.1526	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.11 Call	38,250	71.7850	59.9754	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.14 Call	10,000	69.3164	57.9240	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.20 Call	2,000	64.6325	54.0352	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.24 Call	750	61.6884	51.5922	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.56 Call	13,650	42.5457	35.7339	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	16.80 Call	13,150	32.2858	27.2452	0.0000	0.0000	0	0.00
Dec 2018	ZAUS	17.00 Call	3,700	25.7183	21.8078	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	10.33 Put	1,000	2.7284	3.5772	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	11.74 Put	1,000	10.0634	12.6890	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.47 Put	721	37.7629	44.3593	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.51 Put	720	40.3366	47.2218	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.90 Put	16,000	74.0171	84.2134	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	12.92 Put	139,342	76.2273	86.6201	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.00 Put	14,028	85.6102	96.8172	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.05 Put	1,155	91.9331	103.6725	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.12 Put	138,000	101.4095	114.6654	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.15 Put	10,125	105.7043	120.4248	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.25 Put	224,707	121.0667	141.0990	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.33 Put	135,043	137.1259	159.3295	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.36 Put	134,750	143.5267	166.5659	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.46 Put	20,000	166.3636	192.2974	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.50 Put	50	176.1611	203.2983	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.55 Put	10,000	188.9540	217.6251	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.60 Put	4,000	202.3646	232.6049	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.68 Put	14,200	225.1175	257.9384	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.70 Put	2,500	231.0606	264.5381	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.72 Put	10,000	237.1032	271.2446	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.75 Put	17,981	246.3641	281.5054	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.79 Put	262,812	259.0709	295.5598	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.86 Put	721	282.3129	322.7604	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	13.90 Put	720	296.1698	339.0965	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.00 Put	16,000	334.0259	381.9466	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.04 Put	7,100	350.4993	399.8819	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.20 Put	2,000	420.8819	476.1127	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.28 Put	7,028	458.7357	516.8620	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.30 Call	250	849.6754	776.7155	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.35 Put	139,342	493.2862	553.9155	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.44 Put	7,000	539.6269	603.4329	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.45 Put	1,000	544.9088	609.0619	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.48 Call	1,000	762.1027	695.5031	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Call	224,707	752.8953	686.9862	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.50 Put	10,050	571.6953	637.5862	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.53 Put	108	588.0778	654.9996	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.56 Put	138,000	604.6847	672.6881	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.65 Put	10,000	655.8573	727.4161	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.74 Put	24,326	709.2309	784.0258	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.81 Put	135,043	752.2862	829.3096	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.82 Put	4,145	758.5309	835.8685	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.83 Put	10,010	764.7945	842.4453	0.0000	0.0000	0	0.00

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Mar 2019	ZAUS	14.84 Put	134,750	771.0845	849.0471	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	14.99 Call	100	559.2415	509.9294	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.04 Put	77,255	901.4257	985.3589	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.10 Put	1,000	942.1561	1027.7833	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.12 Put	99,824	955.8922	1042.0751	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.13 Put	7,100	962.7878	1049.2468	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.17 Call	720	501.7711	457.5178	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.19 Put	41,300	1004.5775	1092.6623	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.20 Put	2,500	1011.6072	1099.9627	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.32 Put	262,812	1097.4185	1188.9123	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.45 Call	20,000	424.4282	387.5203	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.46 Call	108	421.9269	385.2595	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.50 Call	224,757	412.0855	376.3639	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.52 Call	1	407.2580	372.0035	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.54 Call	721	402.4963	367.7005	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.66 Call	139,342	375.1789	343.0426	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.81 Call	10	343.9126	314.8579	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.83 Call	135,043	339.9699	311.3081	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	15.89 Call	4,145	328.4509	300.9344	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.00 Call	10,000	308.4771	282.9596	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.13 Call	138,000	286.6626	261.7979	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.30 Call	10,000	259.0619	236.7019	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.38 Call	134,750	246.9910	225.8274	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.58 Call	10,000	219.4261	201.0126	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.60 Call	50	216.8626	198.7052	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.96 Call	12,600	176.0032	161.9516	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	16.97 Call	63,500	174.9996	161.0499	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.02 Call	262,812	170.0781	156.6239	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.08 Call	7,028	164.3797	151.4979	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.09 Call	106,824	163.4513	150.6639	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.10 Call	2,500	162.5290	149.8331	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.23 Call	41,300	151.0657	139.5253	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.30 Call	10,125	145.2825	134.3226	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	17.50 Call	16,000	130.1258	121.5108	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.00 Call	14,200	104.5703	101.0323	0.0000	0.0000	0	0.00
Mar 2019	ZAUS	18.40 Call	7,100	90.5841	88.5961	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	10.69 Put	1,000	7.6523	8.0344	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.28 Put	1,000	36.7495	48.4843	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.75 Put	1,000	91.1066	109.8891	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	12.98 Put	911	132.0048	154.3195	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.00 Put	8,203	136.0626	158.6835	0.0000	0.0000	0	0.00
Jun 2019	ZAUS	13.24 Put	30,000	191.4265	217.6053	0.0000	0.0000	60,000	0.00

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Jun 2019	ZAUS	13.83 Put	25,000	370.7694	409.5462	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.88 Put	5,035	389.2117	429.3090	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	13.98 Call	1,000	1289.3240	1199.5081	0.0000	0.0000	1,000	0.00		
Jun 2019	ZAUS	14.42 Call	30	1054.5887	981.1805	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.58 Call	1,000	981.0174	912.1126	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.63 Put	8,203	747.5124	813.4843	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	14.82 Call	30,000	880.3889	817.4528	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.10 Call	1,000	775.7495	0.0000	0.0000	0.0000	1,000	0.00		
Jun 2019	ZAUS	15.55 Call	25,000	634.6582	588.7306	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.62 Call	5,035	615.4699	571.1018	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.80 Call	1,000	569.4869	528.5840	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	15.92 Call	911	541.0801	502.3566	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	16.00 Call	20	523.0893	485.7513	0.0000	0.0000	0	0.00		
Jun 2019	ZAUS	17.96 Call	8,203	236.8071	224.6557	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	10.75 Put	1,000	14.1810	14.3816	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	12.50 Put	1,000	75.0267	88.5816	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.91 Put	81,930	481.5637	524.1692	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	13.97 Put	800	505.5494	549.4387	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.09 Put	33,715	555.5333	601.9972	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.14 Put	141,127	577.1509	624.6882	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.21 Put	2,700	608.1926	659.2491	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.33 Put	33,151	666.0890	721.2957	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	14.72 Put	1,200	876.9175	941.1329	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.38 Put	5,000	1287.5448	1364.4636	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.55 Call	30,000	869.7470	812.8625	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.56 Put	2,571	1409.7491	1490.0471	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	15.87 Call	1,000	777.0727	726.0306	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.23 Call	800	492.8038	458.9951	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.64 Call	5,000	432.7641	403.0355	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.85 Call	2,700	405.7103	377.8536	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	17.93 Call	2,571	396.0015	369.5444	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.29 Call	81,930	362.7131	340.3782	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.47 Call	1,200	348.6695	327.4153	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.63 Call	33,715	337.0581	316.7001	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	18.67 Call	141,127	334.2759	314.1323	0.0000	0.0000	0	0.00		
Sep 2019	ZAUS	19.32 Call	33,151	294.9991	277.9252	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	11.89 Put	1,000	48.6663	51.1294	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	13.66 Put	1,000	445.4277	486.4525	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	17.38 Call	1,000	648.1729	609.4795	0.0000	0.0000	0	0.00		
Dec 2019	ZAUS	20.00 Call	2,000	372.9781	343.5255	0.0000	0.0000	0	0.00		
			<u>8,234,512</u>					<u>70,100.00</u>	<u>0.00</u>	<u>60 810 233.00</u>	<u>0.00</u>

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		Total	9,167,173				122,220.00	755,277,510.10	248 998 680.00	2 255 197 981 719.60
		Grand Total	10,997,364				219,614.00	1 591 490 116.76	340,101,921	3,127,477,685,163.08