



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 14-January-2019

| DATE          | CONTRACT |            | OPEN INT      | MTM       | PREV MTM  | HIGH   | LOW    | DAILY VOLUME | CUMULATIVE VOLUME |                     |                          |
|---------------|----------|------------|---------------|-----------|-----------|--------|--------|--------------|-------------------|---------------------|--------------------------|
| <b>Future</b> |          |            |               |           |           |        |        |              |                   |                     |                          |
| Jan 2019      | DAEU     | Future     | 4,830         | 15.8695   | 15.9382   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Feb 2019      | DAEU     | Future     | 29            | 15.9947   | 16.0641   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Mar 2019      | DAEU     | Future     | 53            | 16.0446   | 16.1142   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Apr 2019      | DAEU     | Future     | 4             | 16.1496   | 16.2191   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Apr 2019      | DAEU     | Future     | 1             | 16.1869   | 16.2565   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
|               |          |            | <u>4,917</u>  |           |           |        |        | <u>0.00</u>  | <u>0.00</u>       | <u>811 220.00</u>   | <u>12 127 159 019.50</u> |
| <b>Option</b> |          |            |               |           |           |        |        |              |                   |                     |                          |
| Aug 2019      | DAEU     | 17.01 Put  | 16,200        | 1104.8483 | 1075.4061 | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Aug 2019      | DAEU     | 19.65 Call | 62,400        | 190.6386  | 205.0625  | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
|               |          |            | <u>78,600</u> |           |           |        |        | <u>0.00</u>  | <u>0.00</u>       | <u>1 510 587.00</u> | <u>0.00</u>              |
| <b>Total</b>  |          |            | <b>83,517</b> |           |           |        |        | <b>0.00</b>  | <b>0.00</b>       | <b>2 321 807.00</b> | <b>12 127 159 019.50</b> |
| <b>Future</b> |          |            |               |           |           |        |        |              |                   |                     |                          |
| Jan 2019      | DAGB     | Future     | 4,112         | 17.7803   | 17.7679   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Jan 2019      | DAGB     | Future     | 27            | 17.8097   | 17.7979   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Feb 2019      | DAGB     | Future     | 47            | 17.8972   | 17.8850   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Mar 2019      | DAGB     | Future     | 80            | 17.9863   | 17.9739   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Apr 2019      | DAGB     | Future     | 43            | 18.0393   | 18.0267   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Apr 2019      | DAGB     | Future     | 120           | 18.0738   | 18.0609   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
|               |          |            | <u>4,429</u>  |           |           |        |        | <u>0.00</u>  | <u>0.00</u>       | <u>62 521.00</u>    | <u>1 044 018 088.80</u>  |
| <b>Total</b>  |          |            | <b>4,429</b>  |           |           |        |        | <b>0.00</b>  | <b>0.00</b>       | <b>269 834.00</b>   | <b>1 044 018 088.80</b>  |
| <b>Future</b> |          |            |               |           |           |        |        |              |                   |                     |                          |
| Jan 2019      | DAUS     | Future     | 392           | 13.8291   | 13.8851   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Jan 2019      | DAUS     | Future     | 20            | 13.8291   | 13.8851   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Jan 2019      | DAUS     | Future     | 1,901         | 13.8347   | 13.8921   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Jan 2019      | DAUS     | Future     | 51            | 13.8406   | 13.8984   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Jan 2019      | DAUS     | Future     | 1,018         | 13.8492   | 13.9071   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |
| Jan 2019      | DAUS     | Future     | 1,922         | 13.8509   | 13.9088   | 0.0000 | 0.0000 | 731          | 10,206,514.40     |                     |                          |
| Feb 2019      | DAUS     | Future     | 70            | 13.8734   | 13.9314   | 0.0000 | 0.0000 | 0            | 0.00              |                     |                          |

| <u>DATE</u>   | <u>CONTRACT</u> |            | <u>OPEN INT</u> | <u>MTM</u> | <u>PREV MTM</u> | <u>HIGH</u> | <u>LOW</u> | <u>DAILY VOLUME</u> | <u>CUMULATIVE VOLUME</u> |                      |                           |
|---------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|----------------------|---------------------------|
| Feb 2019      | DAUS            | Future     | 6               | 13.8768    | 13.9348         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Feb 2019      | DAUS            | Future     | 15              | 13.8937    | 13.9516         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Feb 2019      | DAUS            | Future     | 6,062           | 13.8987    | 13.9567         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Mar 2019      | DAUS            | Future     | 74              | 13.9054    | 13.9634         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Mar 2019      | DAUS            | Future     | 80              | 13.9071    | 13.9651         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Mar 2019      | DAUS            | Future     | 3,731           | 13.9442    | 14.0023         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Mar 2019      | DAUS            | Future     | 4,791           | 13.9476    | 14.0057         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Apr 2019      | DAUS            | Future     | 55              | 13.9545    | 14.0125         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Apr 2019      | DAUS            | Future     | 260             | 13.9767    | 14.0347         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Apr 2019      | DAUS            | Future     | 71              | 13.9960    | 14.0539         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Apr 2019      | DAUS            | Future     | 1,180           | 14.0030    | 14.0608         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| May 2019      | DAUS            | Future     | 475             | 14.0573    | 14.1149         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jun 2019      | DAUS            | Future     | 74              | 14.0643    | 14.1219         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jun 2019      | DAUS            | Future     | 105             | 14.1064    | 14.1638         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jul 2019      | DAUS            | Future     | 55              | 14.1116    | 14.1690         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Aug 2019      | DAUS            | Future     | 55              | 14.1666    | 14.2237         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Sep 2019      | DAUS            | Future     | 55              | 14.2239    | 14.2807         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Sep 2019      | DAUS            | Future     | 74              | 14.2274    | 14.2842         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Oct 2019      | DAUS            | Future     | 55              | 14.2776    | 14.3341         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Oct 2019      | DAUS            | Future     | 55              | 14.3302    | 14.3864         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Dec 2019      | DAUS            | Future     | 55              | 14.3889    | 14.4447         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Dec 2019      | DAUS            | Future     | 321             | 14.3925    | 14.4483         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2020      | DAUS            | Future     | 55              | 14.4457    | 14.5012         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2020      | DAUS            | Future     | 55              | 14.5009    | 14.5567         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Mar 2020      | DAUS            | Future     | 55              | 14.5617    | 14.6184         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Apr 2020      | DAUS            | Future     | 55              | 14.6226    | 14.6801         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Apr 2020      | DAUS            | Future     | 55              | 14.6756    | 14.7339         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jun 2020      | DAUS            | Future     | 1,055           | 14.7424    | 14.8016         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jul 2020      | DAUS            | Future     | 84,000          | 14.8523    | 14.9131         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
|               |                 |            | <u>108,408</u>  |            |                 |             |            | <u>731.00</u>       | <u>10,206,514.40</u>     | <u>11 028 108.00</u> | <u>135 593 226 786.40</u> |
| <b>Option</b> |                 |            |                 |            |                 |             |            |                     |                          |                      |                           |
| Jan 2019      | DAUS            | 13.86 Put  | 174             | 67.9097    | 65.9751         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2019      | DAUS            | 14.00 Call | 174             | 8.6918     | 38.2518         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2019      | DAUS            | 14.29 Put  | 218             | 461.2666   | 411.7010        | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2019      | DAUS            | 14.36 Call | 218             | 0.1779     | 4.5942          | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2019      | DAUS            | 12.66 Put  | 263             | 0.0935     | 0.1465          | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2019      | DAUS            | 13.80 Put  | 25,000          | 86.8889    | 85.7462         | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2019      | DAUS            | 13.00 Put  | 500             | 5.8333     | 8.2004          | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2019      | DAUS            | 13.80 Put  | 600             | 167.8247   | 157.2890        | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2019      | DAUS            | 13.95 Put  | 731             | 252.4791   | 234.2061        | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2019      | DAUS            | 14.00 Call | 731             | 135.6674   | 173.0507        | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |
| Jan 2019      | DAUS            | 14.20 Call | 600             | 81.2287    | 109.7266        | 0.0000      | 0.0000     | 0                   | 0.00                     |                      |                           |

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|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Jan 2019    | DAUS            | 14.20 Put  | 250             | 430.3287   | 400.9266        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jan 2019    | DAUS            | 14.25 Put  | 250             | 470.2184   | 438.7184        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jan 2019    | DAUS            | 14.38 Call | 500             | 49.9976    | 71.3340         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jan 2019    | DAUS            | 14.55 Call | 600             | 31.1868    | 46.9253         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jan 2019    | DAUS            | 15.13 Call | 250             | 5.7981     | 9.5344          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jan 2019    | DAUS            | 15.47 Call | 250             | 2.5186     | 4.0372          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Feb 2019    | DAUS            | 13.00 Put  | 500             | 41.2016    | 37.9616         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Feb 2019    | DAUS            | 13.70 Put  | 600             | 231.6207   | 215.2764        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Feb 2019    | DAUS            | 14.20 Put  | 250             | 519.7316   | 488.9990        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Feb 2019    | DAUS            | 14.25 Call | 600             | 203.7161   | 229.7734        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Feb 2019    | DAUS            | 14.25 Put  | 250             | 555.0161   | 523.0734        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Feb 2019    | DAUS            | 14.52 Call | 500             | 139.0334   | 159.1298        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Feb 2019    | DAUS            | 14.75 Call | 600             | 99.5139    | 115.5403        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Feb 2019    | DAUS            | 15.27 Call | 250             | 46.2366    | 55.3071         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Feb 2019    | DAUS            | 15.63 Call | 250             | 24.5954    | 30.6968         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | DAUS            | 13.94 Put  | 27,500          | 380.6871   | 357.4447        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | DAUS            | 15.15 Call | 27,500          | 78.8677    | 90.5325         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | DAUS            | 13.88 Put  | 32,000          | 387.9822   | 366.6137        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | DAUS            | 14.00 Put  | 65,000          | 454.9187   | 429.8637        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | DAUS            | 13.00 Put  | 500             | 84.9279    | 79.8156         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | DAUS            | 14.20 Put  | 250             | 585.6025   | 556.3213        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | DAUS            | 14.25 Put  | 250             | 619.0001   | 588.6912        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | DAUS            | 14.67 Call | 500             | 205.1237   | 225.1800        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | DAUS            | 15.43 Call | 250             | 92.6751    | 103.8457        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | DAUS            | 15.79 Call | 250             | 62.9931    | 71.2273         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Apr 2019    | DAUS            | 13.76 Put  | 100             | 348.4813   | 329.6760        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Apr 2019    | DAUS            | 14.35 Call | 100             | 310.5515   | 336.7592        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Apr 2019    | DAUS            | 13.00 Put  | 3,000           | 128.5320   | 122.1635        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Apr 2019    | DAUS            | 13.49 Call | 2,500           | 789.4315   | 833.2330        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Apr 2019    | DAUS            | 14.20 Put  | 250             | 642.4103   | 614.7888        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Apr 2019    | DAUS            | 14.25 Put  | 250             | 674.5590   | 646.0387        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Apr 2019    | DAUS            | 14.84 Call | 500             | 263.1260   | 282.9858        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Apr 2019    | DAUS            | 15.61 Call | 250             | 140.3176   | 152.3129        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Apr 2019    | DAUS            | 15.96 Call | 250             | 105.1863   | 114.4545        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| May 2019    | DAUS            | 13.00 Put  | 500             | 167.2782   | 159.7315        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| May 2019    | DAUS            | 14.20 Put  | 250             | 689.4890   | 663.1429        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| May 2019    | DAUS            | 14.25 Put  | 250             | 720.7689   | 693.6046        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| May 2019    | DAUS            | 15.01 Call | 500             | 311.1608   | 330.5500        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| May 2019    | DAUS            | 15.79 Call | 250             | 181.8615   | 194.0743        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| May 2019    | DAUS            | 16.15 Call | 250             | 141.7453   | 151.3607        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | DAUS            | 14.72 Put  | 20,000          | 1062.6182  | 1029.1538       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | DAUS            | 17.22 Call | 20,000          | 96.2101    | 99.9746         | 0.0000      | 0.0000     | 0                   | 0.00                     |

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|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Jun 2019    | DAUS            | 13.00 Put  | 500             | 199.2146   | 190.9122        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | DAUS            | 14.20 Put  | 250             | 725.4500   | 700.1858        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | DAUS            | 14.25 Put  | 250             | 756.1202   | 730.0764        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | DAUS            | 15.17 Call | 500             | 347.3218   | 366.1966        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | DAUS            | 15.96 Call | 250             | 214.2882   | 226.5803        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | DAUS            | 16.32 Call | 250             | 171.9793   | 181.7613        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jul 2019    | DAUS            | 13.45 Put  | 39,250          | 351.0762   | 336.9971        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jul 2019    | DAUS            | 16.44 Call | 39,250          | 167.7635   | 176.8953        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jul 2019    | DAUS            | 13.00 Put  | 500             | 231.1784   | 221.8564        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jul 2019    | DAUS            | 14.20 Put  | 250             | 761.5831   | 737.0901        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jul 2019    | DAUS            | 14.25 Put  | 250             | 791.7177   | 766.5250        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jul 2019    | DAUS            | 15.34 Call | 500             | 389.7444   | 407.9565        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jul 2019    | DAUS            | 16.14 Call | 250             | 252.7693   | 265.0520        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jul 2019    | DAUS            | 16.50 Call | 250             | 208.5706   | 218.6829        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Aug 2019    | DAUS            | 14.48 Put  | 3,147           | 948.1957   | 920.1063        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Aug 2019    | DAUS            | 16.35 Call | 3,147           | 248.9318   | 260.6636        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Aug 2019    | DAUS            | 13.00 Put  | 500             | 256.8038   | 246.9254        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Aug 2019    | DAUS            | 14.20 Put  | 250             | 790.2723   | 765.8282        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Aug 2019    | DAUS            | 14.25 Put  | 250             | 820.0289   | 795.0193        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Aug 2019    | DAUS            | 15.52 Call | 500             | 420.2520   | 437.8266        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Aug 2019    | DAUS            | 16.33 Call | 250             | 282.6501   | 295.3661        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Aug 2019    | DAUS            | 16.70 Call | 250             | 237.1416   | 247.4464        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | DAUS            | 19.00 Call | 20,000          | 101.6994   | 105.9183        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | DAUS            | 13.00 Put  | 500             | 280.3852   | 270.1673        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | DAUS            | 14.20 Put  | 250             | 815.1478   | 791.1500        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | DAUS            | 14.25 Put  | 250             | 844.6857   | 820.1487        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | DAUS            | 15.68 Call | 500             | 452.9729   | 470.5468        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | DAUS            | 16.50 Call | 250             | 314.0638   | 326.7655        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | DAUS            | 16.89 Call | 250             | 265.7106   | 276.1667        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Oct 2019    | DAUS            | 13.00 Put  | 500             | 303.9217   | 293.1561        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Oct 2019    | DAUS            | 14.20 Put  | 250             | 838.7291   | 815.4275        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Oct 2019    | DAUS            | 14.25 Put  | 250             | 868.0568   | 844.2498        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Oct 2019    | DAUS            | 15.87 Call | 500             | 479.2294   | 496.5104        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Oct 2019    | DAUS            | 16.70 Call | 250             | 341.4268   | 353.5769        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Oct 2019    | DAUS            | 17.09 Call | 250             | 293.2441   | 303.4908        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Nov 2019    | DAUS            | 13.00 Put  | 500             | 324.0014   | 312.7858        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Nov 2019    | DAUS            | 14.20 Put  | 250             | 858.2244   | 835.2532        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Nov 2019    | DAUS            | 14.25 Put  | 250             | 887.3488   | 863.9046        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Nov 2019    | DAUS            | 16.03 Call | 500             | 504.8335   | 521.8206        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Nov 2019    | DAUS            | 16.87 Call | 250             | 367.5219   | 379.8087        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Nov 2019    | DAUS            | 17.26 Call | 250             | 319.4225   | 329.9763        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2019    | DAUS            | 13.00 Put  | 500             | 343.1161   | 329.6285        | 0.0000      | 0.0000     | 0                   | 0.00                     |

| DATE          | CONTRACT |              | OPEN INT       | MTM      | PREV MTM | HIGH    | LOW     | DAILY VOLUME  | CUMULATIVE VOLUME    |                                  |
|---------------|----------|--------------|----------------|----------|----------|---------|---------|---------------|----------------------|----------------------------------|
| Dec 2019      | DAUS     | 14.20 Put    | 250            | 876.7815 | 854.2126 | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
| Dec 2019      | DAUS     | 14.25 Put    | 250            | 905.6846 | 882.6463 | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
| Dec 2019      | DAUS     | 16.21 Call   | 500            | 530.4154 | 546.8151 | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
| Dec 2019      | DAUS     | 17.05 Call   | 250            | 395.7933 | 407.9001 | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
| Dec 2019      | DAUS     | 17.44 Call   | 250            | 349.6620 | 359.2022 | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
|               |          |              | 357,103        |          |          |         |         | 0.00          | 0.00                 | 22 172 915.00                    |
|               |          | <b>Total</b> | <b>465,511</b> |          |          |         |         | <b>731.00</b> | <b>10,206,514.40</b> | 33 201 023.00 135 593 226 786.40 |
| <b>Future</b> |          |              |                |          |          |         |         |               |                      |                                  |
| Mar 2019      | EUUS     | Future       | 5              | 1.1526   | 1.1528   | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
| Jun 2019      | EUUS     | Future       | 582            | 1.1614   | 1.1615   | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
|               |          |              | 587            |          |          |         |         | 0.00          | 0.00                 | 745 402.00 8 456 173 900.00      |
|               |          | <b>Total</b> | <b>587</b>     |          |          |         |         | <b>0.00</b>   | <b>0.00</b>          | 745 402.00 8 456 173 900.00      |
| <b>Future</b> |          |              |                |          |          |         |         |               |                      |                                  |
| Mar 2019      | GBUS     | Future       | 400            | 1.2888   | 1.2826   | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
|               |          |              | 400            |          |          |         |         | 0.00          | 0.00                 | 171 222.00 2 203 047 628.00      |
|               |          | <b>Total</b> | <b>400</b>     |          |          |         |         | <b>0.00</b>   | <b>0.00</b>          | 171 222.00 2 203 047 628.00      |
| <b>Future</b> |          |              |                |          |          |         |         |               |                      |                                  |
| Mar 2019      | ZAAD     | Future       | 7,365          | 10.0329  | 10.0643  | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
| Jun 2019      | ZAAD     | Future       | 15,741         | 10.1561  | 10.1867  | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
| Sep 2019      | ZAAD     | Future       | 650            | 10.2911  | 10.3217  | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
| Dec 2019      | ZAAD     | Future       | 400            | 10.4215  | 10.4507  | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
|               |          |              | 24,156         |          |          |         |         | 0.00          | 0.00                 | 3 845 849.00 33 691 964 036.90   |
| <b>Option</b> |          |              |                |          |          |         |         |               |                      |                                  |
| Dec 2019      | ZAAD     | 11.00 Call   | 1,000          | 345.4928 | 359.9091 | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
|               |          |              | 1,000          |          |          |         |         | 0.00          | 0.00                 | 34 377.00 0.00                   |
|               |          | <b>Total</b> | <b>25,156</b>  |          |          |         |         | <b>0.00</b>   | <b>0.00</b>          | 3 880 226.00 33 691 964 036.90   |
| <b>Future</b> |          |              |                |          |          |         |         |               |                      |                                  |
| Mar 2019      | ZACA     | Future       | 500            | 10.5124  | 10.5547  | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
| Jun 2019      | ZACA     | Future       | 650            | 10.6489  | 10.6895  | 10.7246 | 10.7246 | 250           | 2,681,150.00         |                                  |
| Sep 2019      | ZACA     | Future       | 250            | 10.7952  | 10.8356  | 0.0000  | 0.0000  | 0             | 0.00                 |                                  |
|               |          |              | 1,400          |          |          |         |         | 250.00        | 2,681,150.00         | 149 013.00 1 477 461 670.10      |
|               |          | <b>Total</b> | <b>1,400</b>   |          |          |         |         | <b>250.00</b> | <b>2,681,150.00</b>  | 149 013.00 1 477 461 670.10      |
| <b>Future</b> |          |              |                |          |          |         |         |               |                      |                                  |
| Mar 2019      | ZAEU     | Future       | 135,811        | 16.0537  | 16.1236  | 16.1796 | 16.1140 | 411           | 6,651,532.70         |                                  |
| Jun 2019      | ZAEU     | Future       | 24,275         | 16.3540  | 16.4231  | 16.3750 | 16.3750 | 25            | 409,375.00           |                                  |
| Sep 2019      | ZAEU     | Future       | 9,579          | 16.6837  | 16.7515  | 16.8326 | 16.8326 | 5             | 84,163.00            |                                  |

| DATE          | CONTRACT |      | OPEN INT     | MTM            | PREV MTM  | HIGH      | LOW     | DAILY VOLUME | CUMULATIVE VOLUME |                      |                      |                           |
|---------------|----------|------|--------------|----------------|-----------|-----------|---------|--------------|-------------------|----------------------|----------------------|---------------------------|
|               | Dec 2019 | ZAEU | Future       | 277            | 16.9976   | 17.0641   | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               |          |      |              | <u>169,942</u> |           |           |         |              | <u>441.00</u>     | <u>7,145,070.70</u>  | <u>16 052 090.00</u> | <u>231 705 931 300.50</u> |
| <b>Option</b> |          |      |              |                |           |           |         |              |                   |                      |                      |                           |
|               | Mar 2019 | ZAEU | 16.00 Call   | 650            | 435.0162  | 484.1635  | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Sep 2019 | ZAEU | 18.60 Call   | 55,000         | 389.4372  | 412.8743  | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Dec 2019 | ZAEU | 13.73 Put    | 17,150         | 69.0751   | 70.7473   | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Dec 2019 | ZAEU | 16.15 Put    | 17,150         | 626.1371  | 612.8566  | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Dec 2019 | ZAEU | 20.62 Call   | 17,150         | 334.8472  | 349.1950  | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               |          |      |              | <u>107,100</u> |           |           |         |              | <u>0.00</u>       | <u>0.00</u>          | <u>10 956 876.00</u> | <u>0.00</u>               |
|               |          |      | <b>Total</b> | <b>277,042</b> |           |           |         |              | <b>441.00</b>     | <b>7,145,070.70</b>  | <b>27 008 966.00</b> | <b>231 705 931 300.50</b> |
| <b>Future</b> |          |      |              |                |           |           |         |              |                   |                      |                      |                           |
|               | Mar 2019 | ZAFR | Future       | 1,143          | 14.2738   | 14.2832   | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Jun 2019 | ZAFR | Future       | 150            | 14.5547   | 14.5621   | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               |          |      |              | <u>1,293</u>   |           |           |         |              | <u>0.00</u>       | <u>0.00</u>          | <u>626 380.00</u>    | <u>6 751 701 429.60</u>   |
|               |          |      | <b>Total</b> | <b>1,293</b>   |           |           |         |              | <b>0.00</b>       | <b>0.00</b>          | <b>626 380.00</b>    | <b>6 751 701 429.60</b>   |
| <b>Future</b> |          |      |              |                |           |           |         |              |                   |                      |                      |                           |
|               | Mar 2019 | ZAGB | Future       | 395,626        | 17.9521   | 17.9399   | 18.0915 | 17.9850      | 600               | 10,848,000.00        |                      |                           |
|               | Jun 2019 | ZAGB | Future       | 5,764          | 18.2271   | 18.2133   | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Sep 2019 | ZAGB | Future       | 16,660         | 18.5246   | 18.5074   | 0.0000  | 0.0000       | 19                | 354,815.50           |                      |                           |
|               | Dec 2019 | ZAGB | Future       | 247            | 18.8050   | 18.7855   | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               |          |      |              | <u>418,297</u> |           |           |         |              | <u>619.00</u>     | <u>11,202,815.50</u> | <u>13 791 465.00</u> | <u>235 784 567 108.70</u> |
| <b>Option</b> |          |      |              |                |           |           |         |              |                   |                      |                      |                           |
|               | Mar 2019 | ZAGB | 18.00 Put    | 500            | 507.4832  | 517.3335  | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Mar 2019 | ZAGB | 19.00 Call   | 2,500          | 168.6710  | 168.3499  | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Mar 2019 | ZAGB | 19.19 Put    | 1,000          | 1375.9043 | 1387.9749 | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Mar 2019 | ZAGB | 20.00 Call   | 500            | 57.3096   | 57.8827   | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Mar 2019 | ZAGB | 20.18 Call   | 1,500          | 46.8281   | 47.6015   | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               | Mar 2019 | ZAGB | 21.44 Call   | 500            | 11.4821   | 12.4136   | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               |          |      |              | <u>6,500</u>   |           |           |         |              | <u>0.00</u>       | <u>0.00</u>          | <u>1 783 113.00</u>  | <u>0.00</u>               |
|               |          |      | <b>Total</b> | <b>424,797</b> |           |           |         |              | <b>619.00</b>     | <b>11,202,815.50</b> | <b>15 574 578.00</b> | <b>235 784 567 108.70</b> |
| <b>Future</b> |          |      |              |                |           |           |         |              |                   |                      |                      |                           |
|               | Jun 2019 | ZAKS | Future       | 2,166          | 0.1352    | 0.1361    | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               |          |      |              | <u>2,166</u>   |           |           |         |              | <u>0.00</u>       | <u>0.00</u>          | <u>38 066.00</u>     | <u>515 662 000.00</u>     |
|               |          |      | <b>Total</b> | <b>2,166</b>   |           |           |         |              | <b>0.00</b>       | <b>0.00</b>          | <b>38 066.00</b>     | <b>515 662 000.00</b>     |
| <b>Future</b> |          |      |              |                |           |           |         |              |                   |                      |                      |                           |
|               | Sep 2019 | ZANZ | Future       | 213            | 9.7654    | 9.7850    | 0.0000  | 0.0000       | 0                 | 0.00                 |                      |                           |
|               |          |      |              | <u>213</u>     |           |           |         |              | <u>0.00</u>       | <u>0.00</u>          | <u>146 359.00</u>    | <u>1 123 547 250.60</u>   |

| DATE          | CONTRACT |      | OPEN INT     | MTM           | PREV MTM | HIGH     | LOW     | DAILY VOLUME |                 | CUMULATIVE VOLUME    |                  |                      |
|---------------|----------|------|--------------|---------------|----------|----------|---------|--------------|-----------------|----------------------|------------------|----------------------|
| <b>Total</b>  |          |      | <b>213</b>   |               |          |          |         | <b>0.00</b>  | <b>0.00</b>     | 166 359.00           | 1 123 547 250.60 |                      |
| <b>Future</b> |          |      |              |               |          |          |         |              |                 |                      |                  |                      |
|               | Mar 2019 | ZATR | Future       | 25,000        | 2.4552   | 2.4623   | 0.0000  | 0.0000       | 5,000           | 12,262,500.00        |                  |                      |
|               |          |      |              | 25,000        |          |          |         |              | 5,000.00        | 12,262,500.00        | 420 239.00       | 1 320 654 069.00     |
|               |          |      | <b>Total</b> | <b>25,000</b> |          |          |         |              | <b>5,000.00</b> | <b>12,262,500.00</b> | 420 239.00       | 1 320 654 069.00     |
| <b>Future</b> |          |      |              |               |          |          |         |              |                 |                      |                  |                      |
|               | Mar 2019 | ZAUM | Future       | 427           | 13.9288  | 13.9870  | 0.0000  | 0.0000       | 15              | 21,060,000.00        |                  |                      |
|               | Jun 2019 | ZAUM | Future       | 0             | 14.0818  | 14.1393  | 14.2027 | 14.2027      | 5               | 7,101,350.00         |                  |                      |
|               |          |      |              | 427           |          |          |         |              | 20.00           | 28,161,350.00        | 155 393.00       | 180 272 931 610.00   |
|               |          |      | <b>Total</b> | <b>427</b>    |          |          |         |              | <b>20.00</b>    | <b>28,161,350.00</b> | 159 916.00       | 180 272 931 610.00   |
| <b>Future</b> |          |      |              |               |          |          |         |              |                 |                      |                  |                      |
|               | Mar 2019 | ZAUS | Future       | 540,174       | 13.9288  | 13.9870  | 14.0671 | 13.9300      | 34,057          | 477,963,897.30       |                  |                      |
|               | Jun 2019 | ZAUS | Future       | 112,232       | 14.0818  | 14.1393  | 14.2027 | 14.1300      | 559             | 7,936,273.60         |                  |                      |
|               | Sep 2019 | ZAUS | Future       | 14,285        | 14.2489  | 14.3056  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Dec 2019 | ZAUS | Future       | 10,100        | 14.4090  | 14.4647  | 0.0000  | 0.0000       | 200             | 2,897,300.00         |                  |                      |
|               | Mar 2020 | ZAUS | Future       | 4,566         | 14.5892  | 14.6463  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               |          |      |              | 681,357       |          |          |         |              | 34,816.00       | 488,797,470.90       | 193 751 953.00   | 2 334 464 870 291.10 |
| <b>Option</b> |          |      |              |               |          |          |         |              |                 |                      |                  |                      |
|               | Mar 2019 | ZAUS | 10.33 Put    | 1,000         | 0.2329   | 0.2384   | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 11.74 Put    | 1,000         | 5.1048   | 5.2589   | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 12.47 Put    | 721           | 16.9701  | 16.9133  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 12.51 Put    | 720           | 18.1674  | 18.0704  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 12.80 Put    | 8,132         | 40.3471  | 37.3985  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 12.90 Put    | 16,000        | 52.5053  | 48.7448  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 12.92 Put    | 139,342       | 55.2449  | 51.3058  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.00 Put    | 15,434        | 67.3196  | 62.6009  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.05 Put    | 1,155         | 75.8231  | 70.5656  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.12 Put    | 138,000       | 89.0507  | 82.9701  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.15 Put    | 10,125        | 95.2130  | 88.7570  | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.25 Put    | 225,407       | 118.0213 | 110.2000 | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.33 Put    | 135,043       | 140.1838 | 130.3092 | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.36 Put    | 134,750       | 149.1663 | 138.7501 | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.46 Put    | 20,000        | 181.8268 | 169.5060 | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.50 Put    | 17,050        | 196.0810 | 182.9582 | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.55 Put    | 10,000        | 214.8633 | 200.7121 | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.60 Put    | 6,570         | 234.7277 | 219.5201 | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.62 Put    | 6,432         | 242.9757 | 227.3376 | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.68 Put    | 14,200        | 268.7588 | 251.8118 | 0.0000  | 0.0000       | 0               | 0.00                 |                  |                      |
|               | Mar 2019 | ZAUS | 13.70 Put    | 2,500         | 277.7013 | 260.3077 | 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            | 13.72 Put  | 10,000          | 286.8139   | 268.9753        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 13.75 Put  | 17,981          | 300.8053   | 282.2931        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 13.79 Put  | 262,812         | 320.0595   | 300.6401        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 13.82 Put  | 1,800           | 334.9489   | 314.8423        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 13.85 Put  | 1,000           | 350.2159   | 329.4207        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 13.86 Put  | 721             | 355.3888   | 334.3626        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 13.90 Put  | 720             | 376.4992   | 354.5463        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 13.95 Call | 1,000           | 382.6091   | 417.7008        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.00 Call | 100             | 362.0271   | 394.8628        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.00 Put  | 35,606          | 433.2271   | 407.8628        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.04 Put  | 7,100           | 457.4730   | 431.1756        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.20 Call | 2,000           | 289.2438   | 317.5212        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.25 Call | 750             | 273.2773   | 300.4620        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.28 Put  | 7,028           | 615.2971   | 583.6353        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.30 Call | 250             | 258.1372   | 284.2522        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.30 Put  | 3,000           | 629.3372   | 597.2522        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.35 Put  | 139,342         | 664.9906   | 631.8602        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.44 Put  | 7,000           | 731.0598   | 696.1150        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.45 Put  | 1,000           | 738.5466   | 703.4021        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.46 Call | 6,332           | 214.8592   | 237.7202        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.48 Call | 1,000           | 209.9667   | 232.4425        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.50 Call | 225,780         | 205.1826   | 227.2753        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.50 Put  | 50              | 776.3826   | 740.2753        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.53 Put  | 108             | 799.4071   | 762.7351        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.56 Put  | 138,000         | 822.6620   | 785.4355        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.65 Put  | 10,000          | 893.7593   | 854.9305        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.74 Put  | 24,325          | 966.3840   | 926.2686        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.80 Call | 2,000           | 144.5678   | 161.7463        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.81 Put  | 135,043         | 1024.0680  | 982.9019        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.82 Put  | 4,145           | 1032.3897  | 991.0764        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.83 Put  | 10,010          | 1040.7311  | 999.2734        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 14.84 Put  | 134,750         | 1049.0918  | 1007.4891       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.00 Call | 1,260           | 114.1392   | 128.5695        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.04 Put  | 63,500          | 1220.0758  | 1175.8048       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.10 Put  | 1,000           | 1272.6400  | 1227.6461       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.12 Put  | 99,824          | 1290.2784  | 1245.0513       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.13 Put  | 7,100           | 1299.1188  | 1253.7773       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.17 Call | 720             | 93.4181    | 105.8251        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.19 Put  | 41,300          | 1352.4481  | 1306.4349       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.20 Put  | 2,500           | 1361.3827  | 1315.2600       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.22 Call | 2,785           | 88.0902    | 99.9528         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.25 Call | 1,500           | 85.0452    | 96.5931         | 0.0000      | 0.0000     | 0                   | 0.00                     |



| <u>DATE</u> | <u>CONTRACT</u> |            | <u>OPEN INT</u> | <u>MTM</u> | <u>PREV MTM</u> | <u>HIGH</u> | <u>LOW</u> | <u>DAILY VOLUME</u> | <u>CUMULATIVE VOLUME</u> |
|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Mar 2019    | ZAUS            | 15.32 Put  | 262,812         | 1469.5577  | 1422.1994       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.40 Call | 2,000           | 71.0940    | 81.4677         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.45 Call | 20,000          | 66.7987    | 76.7106         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.46 Call | 108             | 65.9705    | 75.7934         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.50 Call | 224,757         | 62.7614    | 72.2316         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.54 Call | 721             | 59.7087    | 68.8380         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.66 Call | 139,342         | 51.4181    | 59.5918         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.81 Call | 10              | 42.6716    | 49.7846         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.83 Call | 135,043         | 41.6260    | 48.6083         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 15.89 Call | 4,145           | 38.6429    | 45.2468         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 16.00 Call | 1,906           | 33.7329    | 39.6917         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 16.13 Call | 138,000         | 28.7499    | 34.0271         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 16.18 Call | 1,800           | 27.0424    | 32.0790         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 16.30 Call | 10,000          | 23.3629    | 27.8656         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 16.38 Call | 134,750         | 21.2043    | 25.3829         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 16.58 Call | 10,000          | 16.6766    | 20.1465         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 16.60 Call | 50              | 16.2839    | 19.6897         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 16.96 Call | 12,600          | 10.4917    | 12.7719         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 16.97 Call | 63,500          | 10.3622    | 12.6091         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 17.02 Call | 262,812         | 9.7401     | 11.8252         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 17.08 Call | 7,028           | 9.0443     | 10.9491         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 17.09 Call | 99,824          | 8.9334     | 10.8098         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 17.10 Call | 2,500           | 8.8242     | 10.6719         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 17.23 Call | 41,300          | 7.5233     | 9.0362          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 17.30 Call | 10,125          | 6.9079     | 8.2635          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 17.50 Call | 16,000          | 5.4249     | 6.4068          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 18.00 Call | 14,200          | 3.0118     | 3.4184          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2019    | ZAUS            | 18.40 Call | 7,100           | 1.6613     | 1.9087          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 10.69 Put  | 1,000           | 5.3256     | 5.5641          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 12.28 Put  | 1,000           | 61.7490    | 60.4522         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 12.75 Put  | 1,000           | 126.9678   | 121.1449        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 12.98 Put  | 911             | 178.7562   | 170.9712        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 13.00 Put  | 165,703         | 183.8598   | 175.8902        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 13.24 Put  | 30,000          | 253.0267   | 242.6585        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 13.25 Put  | 1,282           | 256.2343   | 245.7594        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 13.83 Put  | 25,000          | 500.7756   | 481.0578        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 13.88 Put  | 5,035           | 526.6050   | 506.1128        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 13.98 Call | 1,000           | 682.0759   | 717.5331        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 14.00 Put  | 143,900         | 591.3255   | 568.9705        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 14.07 Put  | 39,589          | 630.8158   | 607.3815        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 14.20 Put  | 13,600          | 708.2598   | 682.3735        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 14.25 Put  | 1,282           | 739.2375   | 712.5491        | 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 2019    | ZAUS            | 14.42 Call | 30              | 510.7080   | 538.8440        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 14.58 Call | 1,000           | 459.6896   | 485.4137        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 14.63 Put  | 8,203           | 993.0175   | 960.5125        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 14.65 Put  | 1,000           | 1007.2059  | 974.4126        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 14.82 Call | 30,000          | 392.6976   | 414.9732        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 15.10 Call | 1,500           | 327.8113   | 346.7526        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 15.32 Call | 1,980           | 284.9749   | 301.6625        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 15.50 Call | 145,182         | 254.5125   | 269.5321        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 15.62 Call | 5,035           | 235.0292   | 249.4761        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 15.64 Call | 39,589          | 231.9382   | 246.2043        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 15.80 Call | 1,000           | 208.7054   | 221.5955        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 15.89 Call | 6,800           | 196.7395   | 208.9033        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 15.92 Call | 911             | 192.9180   | 204.8469        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 16.00 Call | 20              | 183.1078   | 194.4348        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 16.09 Call | 6,800           | 172.7144   | 183.3924        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Jun 2019    | ZAUS            | 17.96 Call | 8,203           | 66.0139    | 67.8597         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 10.75 Put  | 1,000           | 9.3709     | 9.6765          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 12.50 Put  | 1,000           | 138.5525   | 132.2256        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 13.25 Put  | 3,900           | 350.9053   | 338.4132        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 13.91 Put  | 81,930          | 641.8701   | 621.1828        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 13.97 Put  | 800             | 673.9253   | 652.5271        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 14.09 Put  | 33,715          | 740.3197   | 717.5076        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 14.21 Put  | 2,700           | 809.6796   | 785.4662        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 14.33 Put  | 33,151          | 881.7645   | 856.2128        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 15.38 Put  | 5,000           | 1617.1273  | 1579.6644       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 15.56 Put  | 2,571           | 1758.8576  | 1719.8001       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 15.87 Call | 1,000           | 387.8801   | 403.6647        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 17.23 Call | 800             | 212.3713   | 219.7557        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 17.64 Call | 5,000           | 185.9454   | 191.8780        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 17.85 Call | 2,700           | 174.4268   | 179.7219        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 17.93 Call | 2,571           | 170.3538   | 175.4190        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 18.29 Call | 81,930          | 153.8993   | 158.0447        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 18.47 Call | 1,200           | 146.7004   | 150.4400        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 18.63 Call | 33,715          | 137.5577   | 142.9845        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2019    | ZAUS            | 19.32 Call | 33,151          | 93.6416    | 97.5164         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2019    | ZAUS            | 11.89 Put  | 1,000           | 64.9068    | 59.9564         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2019    | ZAUS            | 13.66 Put  | 1,000           | 584.1388   | 567.8468        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2019    | ZAUS            | 14.07 Put  | 1,351           | 793.6602   | 772.0420        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2019    | ZAUS            | 16.85 Call | 1,351           | 393.7541   | 406.4539        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2019    | ZAUS            | 17.38 Call | 1,000           | 329.3237   | 338.6949        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2019    | ZAUS            | 20.00 Call | 2,000           | 132.3891   | 139.1217        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Mar 2020    | ZAUS            | 11.91 Put  | 1,000           | 101.8305   | 95.0535         | 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 2020    | ZAUS            | 14.01 Put    | 1,000            | 817.7893   | 798.1462        | 0.0000      | 0.0000     | 0                   | 0.00                     |                             |
| Mar 2020    | ZAUS            | 17.73 Call   | 1,000            | 445.5215   | 455.0265        | 0.0000      | 0.0000     | 0                   | 0.00                     |                             |
|             |                 |              | <u>4,964,347</u> |            |                 |             |            | <u>0.00</u>         | <u>0.00</u>              | <u>63 948 486.00</u>        |
|             |                 | <b>Total</b> | <b>5,645,704</b> |            |                 |             |            | <b>34,816.00</b>    | <b>488,797,470.90</b>    | <b>257 700 439.00</b>       |
|             |                 |              |                  |            |                 |             |            |                     |                          | <b>2 334 464 870 291.10</b> |

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|                    |                  |  |  |  |  |  |  |                  |                       |                    |                             |
|--------------------|------------------|--|--|--|--|--|--|------------------|-----------------------|--------------------|-----------------------------|
| <b>Grand Total</b> | <b>6,957,642</b> |  |  |  |  |  |  | <b>41,877.00</b> | <b>560 456 871.50</b> | <b>352,232,784</b> | <b>3,241,763,607,659.53</b> |
|--------------------|------------------|--|--|--|--|--|--|------------------|-----------------------|--------------------|-----------------------------|

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