



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 20-February-2019

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | CUMULATIVE VOLUME | | |
|---------------|----------|------------|----------------|-----------|-----------|--------|--------|--------------|-------------------|---------------------|--------------------------|
| Future | | | | | | | | | | | |
| Feb 2019 | DAEU | Future | 29 | 15.9619 | 16.0395 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | DAEU | Future | 53 | 16.0562 | 16.1346 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAEU | Future | 4 | 16.1131 | 16.1918 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAEU | Future | 1 | 16.1497 | 16.2290 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>87</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>816 079.00</u> | <u>12 203 675 785.40</u> |
| Option | | | | | | | | | | | |
| Aug 2019 | DAEU | 19.65 Call | 62,400 | 135.8974 | 148.1093 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Feb 2020 | DAEU | 16.65 Call | 21,000 | 1284.8592 | 1338.8526 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Feb 2020 | DAEU | 16.91 Call | 15,000 | 1169.5184 | 1219.8483 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Feb 2020 | DAEU | 17.00 Call | 15,000 | 1132.2410 | 1181.3399 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Feb 2020 | DAEU | 17.07 Call | 15,000 | 1104.1595 | 1152.3073 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>128,400</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>1 749 987.00</u> | <u>0.00</u> |
| Total | | | 128,487 | | | | | 0.00 | 0.00 | 2 566 066.00 | 12 203 675 785.40 |
| Future | | | | | | | | | | | |
| Feb 2019 | DAGB | Future | 47 | 18.3343 | 18.3967 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | DAGB | Future | 80 | 18.4248 | 18.4878 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAGB | Future | 43 | 18.4791 | 18.5422 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAGB | Future | 120 | 18.5141 | 18.5775 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAGB | Future | 27 | 18.5235 | 18.5872 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>317</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>66 877.00</u> | <u>1 121 639 544.20</u> |
| Total | | | 317 | | | | | 0.00 | 0.00 | 274 190.00 | 1 121 639 544.20 |
| Future | | | | | | | | | | | |
| Feb 2019 | DAUS | Future | 2,259 | 14.0697 | 14.1590 | 0.0000 | 0.0000 | 3,500 | 49,425,250.00 | | |
| Mar 2019 | DAUS | Future | 74 | 14.0763 | 14.1658 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | DAUS | Future | 10,080 | 14.0780 | 14.1675 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | DAUS | Future | 3,731 | 14.1150 | 14.2047 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | DAUS | Future | 3,708 | 14.1185 | 14.2081 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAUS | Future | 55 | 14.1253 | 14.2149 | 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> |
|---------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|---------------------------|
| Apr 2019 | DAUS | Future | 260 | 14.1475 | 14.2372 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | Future | 349 | 14.1663 | 14.2564 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | Future | 15 | 14.1715 | 14.2617 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | Future | 1,052 | 14.1732 | 14.2635 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | Future | 25,000 | 14.1887 | 14.2795 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | Future | 93 | 14.1956 | 14.2866 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | Future | 387 | 14.2237 | 14.2375 | 0.0000 | 0.0000 | 387 | 5,509,912.50 |
| May 2019 | DAUS | Future | 416 | 14.2273 | 14.3188 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | Future | 74 | 14.2344 | 14.3259 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | Future | 753 | 14.2771 | 14.3687 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | Future | 55 | 14.2824 | 14.3741 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | Future | 430 | 14.3359 | 14.4277 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | Future | 55 | 14.3377 | 14.4294 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | Future | 564 | 14.3898 | 14.4812 | 0.0000 | 0.0000 | 621 | 8,986,633.20 |
| Sep 2019 | DAUS | Future | 55 | 14.3951 | 14.4866 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | DAUS | Future | 74 | 14.3987 | 14.4901 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | DAUS | Future | 53 | 14.4455 | 14.5373 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2019 | DAUS | Future | 55 | 14.4492 | 14.5411 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2019 | DAUS | Future | 108 | 14.5016 | 14.5945 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2019 | DAUS | Future | 52 | 14.5540 | 14.6466 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2019 | DAUS | Future | 55 | 14.5596 | 14.6521 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2019 | DAUS | Future | 321 | 14.5633 | 14.6557 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2020 | DAUS | Future | 55 | 14.6167 | 14.7088 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2020 | DAUS | Future | 55 | 14.6692 | 14.7632 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2020 | DAUS | Future | 3,500 | 14.7194 | 14.7850 | 0.0000 | 0.0000 | 3,500 | 51,799,300.00 |
| Mar 2020 | DAUS | Future | 55 | 14.7251 | 14.8221 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2020 | DAUS | Future | 55 | 14.7835 | 14.8817 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2020 | DAUS | Future | 55 | 14.8344 | 14.9336 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2020 | DAUS | Future | 1,055 | 14.8993 | 15.0002 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2020 | DAUS | Future | 84,000 | 15.0086 | 15.1125 | 0.0000 | 0.0000 | 0 | 0.00 |
| | | | <u>139,013</u> | | | | | <u>8,008.00</u> | <u>115,721,095.70</u> |
| | | | | | | | | | <u>11 159 931.00</u> |
| | | | | | | | | | <u>137 410 818 639.00</u> |
| Option | | | | | | | | | |
| Feb 2019 | DAUS | 13.80 Put | 25,000 | 4.0851 | 21.0542 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 13.75 Put | 25,000 | 25.1909 | 32.6801 | 0.0000 | 0.0000 | 25,000 | 0.00 |
| Feb 2019 | DAUS | 13.00 Put | 500 | 0.4554 | 1.3399 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 13.70 Put | 600 | 27.3271 | 30.1926 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 14.20 Put | 250 | 218.9691 | 198.5834 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 14.25 Call | 600 | 74.2267 | 138.1062 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 14.25 Put | 250 | 254.5267 | 229.1062 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 14.52 Call | 500 | 26.8993 | 64.8438 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 14.75 Call | 600 | 10.9043 | 32.7660 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 15.27 Call | 250 | 2.1651 | 6.5785 | 0.0000 | 0.0000 | 0 | 0.00 |

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|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Feb 2019 | DAUS | 15.63 Call | 250 | 0.7681 | 2.1636 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.40 Call | 50,000 | 684.7834 | 775.2004 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.45 Put | 100,000 | 9.5412 | 8.7674 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.50 Call | 50,000 | 591.1576 | 679.6480 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.70 Call | 100,000 | 417.8181 | 504.3583 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.70 Put | 100,000 | 39.8181 | 36.8583 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.94 Put | 27,500 | 133.6004 | 123.6009 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 15.15 Call | 27,500 | 15.6696 | 31.7516 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.80 Call | 30,000 | 429.7864 | 511.1500 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.20 Call | 30,000 | 225.2952 | 284.4661 | 0.0000 | 0.0000 | 1,683 | 0.00 |
| Mar 2019 | DAUS | 13.88 Put | 32,000 | 169.7817 | 156.1039 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.00 Put | 65,000 | 223.7593 | 204.6901 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.00 Put | 500 | 12.4136 | 12.8314 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.45 Put | 600 | 50.7159 | 50.2438 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.87 Call | 600 | 421.7719 | 497.2131 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.20 Put | 250 | 342.5366 | 310.6291 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.25 Put | 250 | 374.1644 | 339.7749 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.40 Call | 600 | 194.6036 | 242.5246 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.67 Call | 500 | 130.5087 | 166.5459 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 15.43 Call | 250 | 41.1274 | 56.2874 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 15.79 Call | 250 | 21.6155 | 31.8824 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 13.76 Put | 100 | 151.9077 | 139.0169 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 14.35 Call | 100 | 240.6587 | 290.8702 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 13.00 Put | 3,000 | 36.6068 | 35.0054 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 13.49 Call | 2,500 | 807.6392 | 889.1679 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 14.20 Put | 250 | 430.5794 | 397.7004 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 14.25 Put | 250 | 460.8014 | 425.2174 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 14.84 Call | 500 | 211.8649 | 247.0690 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 15.61 Call | 250 | 96.9951 | 116.8493 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 15.96 Call | 250 | 66.9101 | 82.6925 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 13.72 Call | 50,000 | 689.3345 | 764.2861 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 14.20 Call | 50,000 | 441.7475 | 500.7304 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 14.25 Call | 61,000 | 465.9597 | 0.0000 | 0.0000 | 0.0000 | 61,000 | 0.00 |
| May 2019 | DAUS | 15.25 Call | 40,000 | 198.4916 | 0.0000 | 0.0000 | 0.0000 | 40,000 | 0.00 |
| May 2019 | DAUS | 15.50 Call | 21,000 | 161.0835 | 0.0000 | 0.0000 | 0.0000 | 21,000 | 0.00 |
| May 2019 | DAUS | 13.00 Put | 500 | 70.4502 | 65.4304 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 14.20 Put | 250 | 496.6405 | 461.8983 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 14.25 Put | 250 | 525.5104 | 489.2446 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 15.01 Call | 500 | 274.0740 | 308.1734 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 15.79 Call | 250 | 148.5177 | 170.4249 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 16.15 Call | 250 | 111.7382 | 129.1128 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 13.83 Put | 45,000 | 321.2725 | 297.4877 | 0.0000 | 0.0000 | 0 | 0.00 |

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|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Jun 2019 | DAUS | 14.06 Put | 18,000 | 432.9729 | 402.3087 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 14.15 Put | 18,000 | 481.4249 | 448.0174 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 14.25 Put | 18,000 | 538.2356 | 501.7804 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 13.00 Put | 500 | 93.6161 | 86.1158 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 14.20 Put | 250 | 533.8164 | 497.6674 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 14.25 Put | 250 | 562.3607 | 524.8602 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 15.17 Call | 500 | 310.0642 | 342.0873 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 15.96 Call | 250 | 181.0958 | 202.9662 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 16.32 Call | 250 | 141.6092 | 159.4835 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 13.00 Put | 500 | 119.3431 | 109.3247 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 14.20 Put | 250 | 569.7766 | 532.4595 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 14.25 Put | 250 | 597.9519 | 559.4352 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 15.34 Call | 500 | 350.2577 | 380.7832 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 16.14 Call | 250 | 217.1903 | 239.0326 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 16.50 Call | 250 | 175.2148 | 193.5246 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | 14.48 Put | 3,147 | 747.1776 | 702.9225 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | 16.35 Call | 3,147 | 212.4795 | 232.9293 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | 13.00 Put | 500 | 141.0567 | 130.4284 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | 14.20 Put | 250 | 597.5145 | 559.6721 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | 14.25 Put | 250 | 625.4271 | 586.4880 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | 15.52 Call | 500 | 378.3671 | 407.0902 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | 16.33 Call | 250 | 244.5001 | 265.7874 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | 16.70 Call | 250 | 200.5676 | 218.6386 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | DAUS | 19.00 Call | 20,000 | 80.9604 | 94.1851 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | DAUS | 13.00 Put | 500 | 160.6513 | 148.5152 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | DAUS | 14.20 Put | 250 | 621.3652 | 582.7824 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | DAUS | 14.25 Put | 250 | 649.0715 | 609.4562 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | DAUS | 15.68 Call | 500 | 410.0117 | 437.0277 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | DAUS | 16.50 Call | 250 | 273.6366 | 294.1913 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | DAUS | 16.89 Call | 250 | 226.5949 | 244.4193 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2019 | DAUS | 13.00 Put | 500 | 179.9229 | 164.8475 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2019 | DAUS | 14.20 Put | 250 | 643.5933 | 604.5122 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2019 | DAUS | 14.25 Put | 250 | 671.1435 | 631.0259 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2019 | DAUS | 15.87 Call | 500 | 434.3785 | 460.6062 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2019 | DAUS | 16.70 Call | 250 | 297.8547 | 318.3273 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2019 | DAUS | 17.09 Call | 250 | 251.1974 | 269.1403 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2019 | DAUS | 13.00 Put | 500 | 194.6987 | 179.1198 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2019 | DAUS | 14.20 Put | 250 | 661.3815 | 623.0153 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2019 | DAUS | 14.25 Put | 250 | 688.7405 | 649.4056 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2019 | DAUS | 16.03 Call | 500 | 457.5172 | 484.0090 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2019 | DAUS | 16.87 Call | 250 | 320.7366 | 341.3192 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2019 | DAUS | 17.26 Call | 250 | 274.2441 | 292.3556 | 0.0000 | 0.0000 | 0 | 0.00 |

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | CUMULATIVE VOLUME | |
|---------------|--------------|------------|------------------|----------|----------|---------|---------|-------------------|-----------------------|---------------------------|
| Dec 2019 | DAUS | 13.00 Put | 500 | 207.9413 | 190.8714 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | DAUS | 14.20 Put | 250 | 678.4977 | 640.1346 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | DAUS | 14.25 Put | 250 | 705.6358 | 666.3577 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | DAUS | 16.21 Call | 500 | 480.1700 | 507.1947 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | DAUS | 17.05 Call | 250 | 345.8561 | 366.5486 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | DAUS | 17.44 Call | 250 | 299.3813 | 317.7686 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | <u>1,040,094</u> | | | | | <u>148,683.00</u> | <u>0.00</u> | <u>23 442 313.00</u> |
| | Total | | 1,179,107 | | | | | 156,691.00 | 115,721,095.70 | 34 602 244.00 |
| | | | | | | | | | | 137 410 818 639.00 |
| Future | | | | | | | | | | |
| Mar 2019 | EUUS | Future | 5 | 1.1362 | 1.1345 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Jun 2019 | EUUS | Future | 582 | 1.1447 | 1.1430 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | <u>587</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>745 402.00</u> |
| | Total | | 587 | | | | | 0.00 | 0.00 | 8 456 173 900.00 |
| | | | | | | | | | | 745 402.00 |
| Future | | | | | | | | | | |
| Mar 2019 | GBUS | Future | 5 | 1.3043 | 1.3005 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | GBUS | Future | 2,219 | 1.3211 | 1.3175 | 0.0000 | 0.0000 | 4,438 | 58,983,239.00 | |
| | | | <u>2,224</u> | | | | | <u>4,438.00</u> | <u>58,983,239.00</u> | <u>176 160.00</u> |
| | Total | | 2,224 | | | | | 4,438.00 | 58,983,239.00 | 2 268 523 867.00 |
| | | | | | | | | | | 176 160.00 |
| Future | | | | | | | | | | |
| Mar 2019 | ZAAD | Future | 4,731 | 10.0964 | 10.1134 | 10.1635 | 10.1417 | 1,000 | 10,152,025.00 | |
| Jun 2019 | ZAAD | Future | 15,741 | 10.2180 | 10.2360 | 10.2888 | 10.2888 | 250 | 2,572,200.00 | |
| Sep 2019 | ZAAD | Future | 513 | 10.3522 | 10.3697 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | ZAAD | Future | 400 | 10.4816 | 10.4994 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | <u>21,385</u> | | | | | <u>1,250.00</u> | <u>12,724,225.00</u> | <u>3 850 497.00</u> |
| | Total | | | | | | | 1,250.00 | 12,724,225.00 | 33 738 285 873.60 |
| | | | | | | | | | | 3 850 497.00 |
| Option | | | | | | | | | | |
| Dec 2019 | ZAAD | 11.00 Call | 1,000 | 316.3721 | 323.4761 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | <u>1,000</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>34 377.00</u> |
| | Total | | 22,385 | | | | | 1,250.00 | 12,724,225.00 | 33 738 285 873.60 |
| | | | | | | | | | | 34 377.00 |
| Future | | | | | | | | | | |
| Mar 2019 | ZACA | Future | 500 | 10.6985 | 10.6991 | 10.7763 | 10.7763 | 250 | 2,694,075.00 | |
| Jun 2019 | ZACA | Future | 400 | 10.8371 | 10.8383 | 10.9241 | 10.9241 | 250 | 2,731,025.00 | |
| Sep 2019 | ZACA | Future | 400 | 10.9864 | 10.9870 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | <u>1,300</u> | | | | | <u>500.00</u> | <u>5,425,100.00</u> | <u>150 863.00</u> |
| | Total | | 1,300 | | | | | 500.00 | 5,425,100.00 | 1 496 897 890.10 |
| | | | | | | | | | | 1 496 897 890.10 |
| Future | | | | | | | | | | |
| Jun 2019 | ZADK | Future | 250 | 2.1879 | 2.1985 | 0.0000 | 0.0000 | 0 | 0.00 | |

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | CUMULATIVE VOLUME | |
|---------------|--------------|------------|----------------|-----------|-----------|---------|---------|-----------------|----------------------|----------------------------------|
| | | | 250 | | | | | 0.00 | 0.00 | 13 625.00 294 020 589.00 |
| | Total | | 250 | | | | | 0.00 | 0.00 | 13 625.00 294 020 589.00 |
| Future | | | | | | | | | | |
| Mar 2019 | ZAEU | Future | 139,711 | 16.0197 | 16.0978 | 16.2820 | 16.0396 | 764 | 12,338,776.00 | |
| Jun 2019 | ZAEU | Future | 29,914 | 16.3139 | 16.3954 | 16.4428 | 16.4428 | 500 | 8,221,400.00 | |
| Sep 2019 | ZAEU | Future | 21,578 | 16.6378 | 16.7198 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | ZAEU | Future | 17,761 | 16.9465 | 17.0304 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | 208,964 | | | | | 1,264.00 | 20,560,176.00 | 16 210 251.00 234 233 042 366.80 |
| Option | | | | | | | | | | |
| Mar 2019 | ZAEU | 16.00 Call | 650 | 264.0094 | 326.4052 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Sep 2019 | ZAEU | 15.62 Put | 14,429 | 306.5065 | 288.8725 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Sep 2019 | ZAEU | 18.27 Call | 14,429 | 357.6403 | 380.2418 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Sep 2019 | ZAEU | 18.60 Call | 55,000 | 305.3161 | 326.1041 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | ZAEU | 13.73 Put | 17,150 | 32.9697 | 33.4269 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | ZAEU | 16.15 Put | 17,150 | 533.1466 | 508.2696 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | ZAEU | 20.62 Call | 17,150 | 263.8180 | 272.4845 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | 135,958 | | | | | 0.00 | 0.00 | 11 000 163.00 0.00 |
| | Total | | 344,922 | | | | | 1,264.00 | 20,560,176.00 | 27 210 414.00 234 233 042 366.80 |
| Future | | | | | | | | | | |
| Mar 2019 | ZAFR | Future | 1,243 | 14.1294 | 14.1800 | 14.2205 | 14.2205 | 100 | 1,422,050.00 | |
| Jun 2019 | ZAFR | Future | 250 | 14.4023 | 14.4555 | 14.5080 | 14.5080 | 100 | 1,450,800.00 | |
| | | | 1,493 | | | | | 200.00 | 2,872,850.00 | 627 180.00 6 762 982 219.60 |
| | Total | | 1,493 | | | | | 200.00 | 2,872,850.00 | 627 180.00 6 762 982 219.60 |
| Future | | | | | | | | | | |
| Mar 2019 | ZAGB | Future | 326,195 | 18.3899 | 18.4527 | 18.7532 | 18.4593 | 819 | 15,753,752.30 | |
| Jun 2019 | ZAGB | Future | 5,703 | 18.6703 | 18.7357 | 0.0000 | 0.0000 | 840 | 15,883,790.00 | |
| Sep 2019 | ZAGB | Future | 16,609 | 18.9749 | 19.0409 | 19.0550 | 19.0486 | 715 | 13,620,297.50 | |
| Dec 2019 | ZAGB | Future | 12,565 | 19.2621 | 19.3311 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | 361,072 | | | | | 2,374.00 | 45,257,839.80 | 13 953 504.00 238 708 761 868.70 |
| Option | | | | | | | | | | |
| Mar 2019 | ZAGB | 18.00 Put | 500 | 134.8416 | 138.4898 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Mar 2019 | ZAGB | 19.00 Call | 2,500 | 111.9910 | 144.5759 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Mar 2019 | ZAGB | 19.19 Put | 1,000 | 880.9556 | 844.4325 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Mar 2019 | ZAGB | 20.00 Call | 500 | 19.3902 | 23.4487 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Mar 2019 | ZAGB | 20.18 Call | 1,500 | 14.1322 | 16.0119 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Mar 2019 | ZAGB | 21.44 Call | 500 | 2.4900 | 3.0124 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Jun 2019 | ZAGB | 18.00 Call | 1,000 | 1048.2420 | 1102.3335 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | 7,500 | | | | | 0.00 | 0.00 | 1 784 813.00 0.00 |

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | CUMULATIVE VOLUME | | | |
|---------------|----------|--------------|----------------|----------------|----------|---------|---------|-----------------|----------------------|-------------------------|--------------------|----------------------|
| | | Total | 368,572 | | | | | 2,374.00 | 45,257,839.80 | 15 738 317.00 | 238 708 761 868.70 | |
| Future | | | | | | | | | | | | |
| | Mar 2019 | ZAJY | Future | 10,000 | 0.1274 | 0.1285 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | <u>10,000</u> | | | | | <u>0.00</u> | <u>0.00</u> | 1 091 937.00 | 12 363 272 053.60 |
| | | | Total | 10,000 | | | | | 0.00 | 0.00 | 1 091 937.00 | 12 363 272 053.60 |
| Future | | | | | | | | | | | | |
| | Jun 2019 | ZAKS | Future | 2,166 | 0.1397 | 0.1400 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | <u>2,166</u> | | | | | <u>0.00</u> | <u>0.00</u> | 38 066.00 | 515 662 000.00 |
| | | | Total | 2,166 | | | | | 0.00 | 0.00 | 38 066.00 | 515 662 000.00 |
| Future | | | | | | | | | | | | |
| | Sep 2019 | ZANZ | Future | 646 | 9.9452 | 9.9729 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | <u>646</u> | | | | | <u>0.00</u> | <u>0.00</u> | 146 792.00 | 1 127 677 204.60 |
| | | | Total | 646 | | | | | 0.00 | 0.00 | 166 792.00 | 1 127 677 204.60 |
| Future | | | | | | | | | | | | |
| | Mar 2019 | ZATR | Future | 18,000 | 2.6122 | 2.6353 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | <u>18,000</u> | | | | | <u>0.00</u> | <u>0.00</u> | 438 935.00 | 1 368 996 669.90 |
| | | | Total | 18,000 | | | | | 0.00 | 0.00 | 438 935.00 | 1 368 996 669.90 |
| Future | | | | | | | | | | | | |
| | Mar 2019 | ZAUM | Future | 435 | 14.0998 | 14.1893 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | <u>435</u> | | | | | <u>0.00</u> | <u>0.00</u> | 155 688.00 | 180 687 046 090.00 |
| | | | Total | 435 | | | | | 0.00 | 0.00 | 160 211.00 | 180 687 046 090.00 |
| Future | | | | | | | | | | | | |
| | Mar 2019 | ZAUS | Future | 798,522 | 14.0998 | 14.1893 | 14.4252 | 14.0500 | 526,272 | 7,463,986,143.70 | | |
| | Jun 2019 | ZAUS | Future | 109,308 | 14.2522 | 14.3438 | 14.4910 | 14.2501 | 7,548 | 108,238,001.40 | | |
| | Sep 2019 | ZAUS | Future | 22,583 | 14.4202 | 14.5115 | 14.7000 | 14.4466 | 300 | 4,364,980.00 | | |
| | Dec 2019 | ZAUS | Future | 10,513 | 14.5799 | 14.6720 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Mar 2020 | ZAUS | Future | 4,566 | 14.7515 | 14.8490 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | <u>945,492</u> | | | | | <u>534,120.00</u> | <u>7,576,589,125.10</u> | 196 410 617.00 | 2 371 362 810 528.40 |
| Option | | | | | | | | | | | | |
| | Mar 2019 | ZAUS | 10.33 Put | 1,000 | 0.0000 | 0.0138 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Mar 2019 | ZAUS | 11.74 Put | 1,000 | 0.0983 | 0.1762 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Mar 2019 | ZAUS | 12.47 Put | 721 | 1.2068 | 1.8606 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Mar 2019 | ZAUS | 12.51 Put | 720 | 1.3821 | 2.1094 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Mar 2019 | ZAUS | 12.80 Put | 7,520 | 3.5262 | 5.1121 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Mar 2019 | ZAUS | 12.90 Put | 16,000 | 4.7481 | 6.7807 | 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 | 12.92 Put | 139,342 | 5.0403 | 7.1740 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.00 Put | 15,434 | 6.4049 | 8.9841 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.05 Put | 1,155 | 7.4436 | 10.3361 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.12 Put | 138,000 | 9.1917 | 12.5693 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.15 Put | 10,125 | 10.0632 | 13.6648 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.25 Put | 225,407 | 13.6175 | 18.0311 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.33 Put | 135,043 | 17.3524 | 22.4716 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.36 Put | 134,750 | 19.0030 | 24.3949 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.46 Put | 20,000 | 28.7109 | 32.0141 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.50 Call | 145 | 634.3093 | 724.9603 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.50 Put | 7,550 | 34.5093 | 35.6603 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.55 Put | 10,000 | 42.9188 | 43.4320 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.60 Call | 500 | 552.5194 | 641.6821 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.60 Put | 6,570 | 52.7194 | 52.3821 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.62 Put | 6,432 | 57.0501 | 56.3113 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.68 Put | 14,200 | 71.5278 | 69.3598 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.70 Put | 2,500 | 76.8651 | 74.1448 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.72 Put | 10,000 | 82.4653 | 79.1547 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.79 Put | 262,812 | 104.1862 | 98.5117 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.82 Put | 2,100 | 114.5258 | 107.6993 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.85 Put | 1,000 | 125.4956 | 117.4365 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.86 Put | 721 | 129.2928 | 120.8045 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.90 Put | 720 | 145.1853 | 134.9004 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.95 Call | 1,000 | 316.4396 | 393.2301 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.00 Call | 100 | 289.6522 | 363.8395 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.00 Put | 29,200 | 189.8522 | 174.5395 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.04 Put | 7,100 | 209.6716 | 192.1641 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.20 Call | 2,000 | 201.7716 | 261.9348 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.25 Call | 750 | 184.3245 | 241.4658 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.28 Put | 7,028 | 354.7393 | 320.5739 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.30 Call | 250 | 168.2894 | 222.4259 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.30 Put | 3,000 | 368.4894 | 333.1259 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.35 Put | 139,342 | 403.7774 | 365.4486 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.44 Put | 7,000 | 470.3569 | 426.8421 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.45 Put | 1,000 | 477.9812 | 433.9048 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.46 Call | 6,332 | 125.4468 | 170.3137 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.48 Call | 1,000 | 120.9048 | 164.6660 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.50 Call | 225,780 | 116.5244 | 159.1975 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.50 Put | 50 | 516.7244 | 469.8975 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.53 Put | 108 | 540.4494 | 492.0167 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.56 Put | 138,000 | 564.5125 | 514.5120 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.65 Put | 10,000 | 638.5697 | 584.0969 | 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 | 14.74 Put | 24,325 | 715.1129 | 656.5381 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.80 Call | 2,000 | 67.1332 | 95.5411 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.81 Put | 135,043 | 776.0230 | 714.6248 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.82 Put | 4,145 | 784.7379 | 723.0372 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.83 Put | 10,010 | 793.4764 | 731.4769 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.84 Put | 134,750 | 802.2401 | 739.9433 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.00 Call | 1,260 | 45.2162 | 67.4003 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.04 Put | 63,500 | 981.9766 | 913.4488 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.10 Put | 1,000 | 1037.3054 | 967.0651 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.12 Put | 99,824 | 1055.8684 | 985.0857 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.13 Put | 7,100 | 1065.1715 | 994.1220 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.17 Call | 720 | 32.3192 | 49.7382 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.19 Put | 41,300 | 1121.2712 | 1048.6938 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.20 Put | 2,500 | 1130.6658 | 1057.8446 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.22 Call | 2,785 | 29.2905 | 45.4926 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.25 Call | 1,500 | 27.6148 | 43.1240 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.32 Put | 262,812 | 1244.2769 | 1168.7760 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.40 Call | 2,000 | 20.6023 | 33.0442 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.45 Call | 20,000 | 18.6995 | 30.2536 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.46 Call | 108 | 18.3415 | 29.7253 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.50 Call | 3,050 | 16.9797 | 27.7075 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.54 Call | 721 | 15.5279 | 25.8324 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.66 Call | 139,342 | 11.8585 | 20.4954 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.81 Call | 10 | 8.4465 | 14.8724 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.83 Call | 135,043 | 8.0718 | 14.2445 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.89 Call | 4,145 | 7.0431 | 12.5098 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.00 Call | 1,906 | 5.4831 | 9.8420 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.13 Call | 138,000 | 4.0771 | 7.3935 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.18 Call | 1,800 | 3.6380 | 6.6189 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.30 Call | 10,000 | 2.7680 | 5.0685 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.38 Call | 134,750 | 2.3076 | 4.2387 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.58 Call | 10,000 | 1.4669 | 2.7045 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.60 Call | 50 | 1.4022 | 2.5853 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.96 Call | 12,600 | 0.7279 | 1.1457 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.97 Call | 63,500 | 0.7300 | 1.1201 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.02 Call | 262,812 | 0.7406 | 1.0002 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.08 Call | 7,028 | 0.7538 | 0.9353 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.09 Call | 99,824 | 0.7561 | 0.9355 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.10 Call | 2,500 | 0.7583 | 0.9358 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.23 Call | 41,300 | 0.7890 | 0.9410 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.30 Call | 10,125 | 0.8065 | 0.9452 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.50 Call | 16,000 | 0.8602 | 0.9625 | 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 | 18.00 Call | 14,200 | 1.0188 | 1.0340 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 18.40 Call | 7,100 | 1.0452 | 1.1167 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 10.69 Put | 1,000 | 1.9123 | 2.0345 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 12.28 Put | 1,000 | 25.0717 | 24.4751 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 12.65 Put | 1,050 | 44.4040 | 42.7225 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 12.75 Put | 1,000 | 51.6192 | 49.4815 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 12.98 Put | 911 | 78.9600 | 72.7566 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.00 Put | 165,703 | 82.2520 | 75.8058 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.10 Put | 14,000 | 100.2267 | 0.0000 | 0.0000 | 0.0000 | 28,000 | 0.00 |
| Jun 2019 | ZAUS | 13.24 Put | 30,000 | 129.8885 | 120.0463 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.25 Put | 4,582 | 132.2159 | 122.2152 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.30 Put | 143,800 | 144.2996 | 133.4729 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.50 Call | 10,000 | 952.3558 | 1029.4590 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.60 Call | 700 | 886.2503 | 960.0344 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.83 Put | 25,000 | 327.9545 | 302.8770 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.90 Call | 100 | 712.3233 | 776.8977 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.98 Call | 1,000 | 671.0896 | 733.4099 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.00 Call | 16,000 | 661.1086 | 722.8638 | 0.0000 | 0.0000 | 5,000 | 0.00 |
| Jun 2019 | ZAUS | 14.00 Put | 301,700 | 408.9086 | 379.0638 | 0.0000 | 0.0000 | 14,000 | 0.00 |
| Jun 2019 | ZAUS | 14.07 Put | 39,589 | 445.0004 | 413.1638 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.20 Put | 13,600 | 516.1316 | 480.5949 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.25 Put | 1,282 | 544.8625 | 507.9097 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.30 Put | 30,000 | 574.7953 | 535.9748 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.35 Call | 1,050 | 507.6527 | 558.5676 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.42 Call | 30 | 481.7475 | 530.7127 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.58 Call | 1,000 | 427.4340 | 472.0705 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.63 Put | 8,203 | 789.5825 | 741.3076 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.65 Put | 1,000 | 803.4889 | 754.6958 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.82 Call | 30,000 | 357.5613 | 396.1334 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.00 Call | 17,500 | 313.0114 | 347.5924 | 0.0000 | 0.0000 | 10,000 | 0.00 |
| Jun 2019 | ZAUS | 15.10 Call | 1,500 | 290.6538 | 323.3803 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.30 Call | 14,000 | 250.9783 | 0.0000 | 0.0000 | 0.0000 | 28,000 | 0.00 |
| Jun 2019 | ZAUS | 15.32 Call | 1,980 | 247.3524 | 276.2780 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.50 Call | 145,182 | 217.2200 | 243.3599 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.60 Call | 143,800 | 202.2845 | 226.9945 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.64 Call | 39,589 | 196.6406 | 220.8015 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.80 Call | 1,000 | 174.9476 | 197.8953 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.89 Call | 6,800 | 163.6377 | 185.3869 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.92 Call | 911 | 160.0482 | 181.4100 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 16.00 Call | 20 | 150.8856 | 171.2539 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 16.09 Call | 6,800 | 141.2635 | 160.5651 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 17.96 Call | 8,203 | 44.1185 | 52.7822 | 0.0000 | 0.0000 | 0 | 0.00 |

| <u>DATE</u> | <u>CONTRACT</u> | | <u>OPEN INT</u> | <u>MTM</u> | <u>PREV MTM</u> | <u>HIGH</u> | <u>LOW</u> | <u>DAILY VOLUME</u> | <u>CUMULATIVE VOLUME</u> | | |
|-------------|-----------------|------------|------------------|------------|-----------------|-------------|------------|---------------------|--------------------------|-----------------------|-----------------------------|
| Sep 2019 | ZAUS | 10.75 Put | 1,000 | 5.3735 | 5.4343 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 12.50 Put | 1,000 | 71.8105 | 66.4459 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 13.15 Put | 11,333 | 187.8427 | 172.8861 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 13.25 Put | 3,900 | 214.8140 | 198.2396 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 13.65 Call | 5,666 | 1117.5206 | 1185.1367 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 13.70 Put | 2,000 | 366.7091 | 342.0817 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 13.77 Put | 28,500 | 396.9269 | 368.9564 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 13.97 Put | 800 | 490.4454 | 457.2939 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 14.00 Put | 1,000 | 505.3670 | 471.5584 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 14.12 Put | 177 | 567.3362 | 530.9176 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 14.21 Put | 2,700 | 616.1364 | 577.7873 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 14.50 Call | 14,000 | 706.4470 | 753.3355 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 14.65 Put | 3,000 | 881.4220 | 833.9635 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.03 Call | 177 | 532.1342 | 568.8315 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.38 Put | 5,000 | 1403.7117 | 1343.1416 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.51 Call | 28,500 | 415.6710 | 444.5245 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.56 Put | 2,571 | 1545.1863 | 1482.0442 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.62 Put | 21 | 1593.2385 | 1529.2869 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.87 Call | 1,000 | 347.7259 | 372.2552 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 17.23 Call | 800 | 174.4275 | 189.5826 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 17.64 Call | 5,000 | 149.4995 | 161.3486 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 17.85 Call | 2,700 | 139.3735 | 150.7246 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 17.93 Call | 2,571 | 135.8212 | 146.9963 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 18.47 Call | 1,200 | 115.4976 | 125.6716 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 11.89 Put | 1,000 | 25.4757 | 22.1865 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 13.66 Put | 1,000 | 415.5965 | 389.7845 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 13.80 Put | 500 | 472.4894 | 444.1758 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 14.07 Put | 1,351 | 601.0171 | 564.7694 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 16.20 Call | 500 | 450.5662 | 476.5301 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 16.85 Call | 1,351 | 345.4450 | 366.5758 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 17.38 Call | 1,000 | 281.1360 | 299.1597 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 20.00 Call | 2,000 | 109.9452 | 121.3285 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2020 | ZAUS | 11.91 Put | 1,000 | 23.2987 | 19.6911 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2020 | ZAUS | 14.01 Put | 1,000 | 622.2977 | 587.5687 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2020 | ZAUS | 17.73 Call | 1,000 | 379.5142 | 399.2290 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>5,049,898</u> | | | | | <u>85,000.00</u> | <u>0.00</u> | <u>65 590 177.00</u> | <u>0.00</u> |
| | Total | | 5,995,390 | | | | | 619,120.00 | 7,576,589,125.10 | 262 000 794.00 | 2 371 362 810 528.40 |

| <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> |
|-------------|-----------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
|-------------|-----------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|

Grand Total

8,076,281

785,837.00

7 838 133 650.60

358,645,602

3,287,528,582,803.73