



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 28-November-2018

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | | CUMULATIVE VOLUME | |
|---------------|----------|--------------|----------------|-----------|-----------|--------|--------|--------------|------------------|---------------------|--------------------------|
| Future | | | | | | | | | | | |
| Mar 2019 | CAHF | Future | 10,000 | 140.5600 | 131.3900 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>10,000</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>10 000.00</u> | <u>2 531 700.00</u> |
| | | Total | 10,000 | | | | | 0.00 | 0.00 | 10 000.00 | 2 531 700.00 |
| Future | | | | | | | | | | | |
| Nov 2018 | DAEU | Future | 37 | 15.7455 | 15.7120 | 0.0000 | 0.0000 | 3 | 47,220.00 | | |
| | | | <u>37</u> | | | | | <u>3.00</u> | <u>47,220.00</u> | <u>801 436.00</u> | <u>11 967 735 272.40</u> |
| Option | | | | | | | | | | | |
| Dec 2018 | DAEU | 15.83 Put | 32,000 | 253.7677 | 275.8531 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2019 | DAEU | 15.85 Put | 13,000 | 297.4271 | 319.3353 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAEU | 17.01 Put | 31,200 | 1175.5784 | 1198.5700 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAEU | 19.65 Call | 62,400 | 278.9589 | 274.1887 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>138,600</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>1 480 587.00</u> | <u>0.00</u> |
| | | Total | 138,637 | | | | | 3.00 | 47,220.00 | 2 282 023.00 | 11 967 735 272.40 |
| Future | | | | | | | | | | | |
| Nov 2018 | DAGB | Future | 13 | 17.8425 | 17.7090 | 0.0000 | 0.0000 | 4 | 71,360.00 | | |
| Jan 2019 | DAGB | Future | 27 | 18.0326 | 17.9000 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | DAGB | Future | 24 | 18.2103 | 18.0744 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>64</u> | | | | | <u>4.00</u> | <u>71,360.00</u> | <u>54 018.00</u> | <u>890 236 083.80</u> |
| | | Total | 64 | | | | | 4.00 | 71,360.00 | 261 331.00 | 890 236 083.80 |
| Future | | | | | | | | | | | |
| Nov 2018 | DAUS | Future | 0 | 13.9645 | 13.9001 | 0.0000 | 0.0000 | 404 | 5,637,577.60 | | |
| Nov 2018 | DAUS | Future | 461 | 13.9661 | 13.9001 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2018 | DAUS | Future | 1,535 | 13.9661 | 13.9001 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | DAUS | Future | 166 | 13.9686 | 13.9051 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | DAUS | Future | 500 | 13.9761 | 13.9117 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | DAUS | Future | 3,672 | 13.9845 | 13.9201 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | DAUS | Future | 1,760 | 14.0165 | 13.9518 | 0.0000 | 0.0000 | 0 | 0.00 | | |

| <u>DATE</u> | <u>CONTRACT</u> | | <u>OPEN INT</u> | <u>MTM</u> | <u>PREV MTM</u> | <u>HIGH</u> | <u>LOW</u> | <u>DAILY VOLUME</u> | <u>CUMULATIVE VOLUME</u> |
|---------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|---------------------------|
| Jan 2019 | DAUS | Future | 55 | 14.0198 | 13.9551 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | Future | 150 | 14.0419 | 13.9768 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | Future | 20 | 14.0435 | 13.9785 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | Future | 51 | 14.0588 | 13.9935 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | Future | 55 | 14.0673 | 14.0019 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | Future | 1,444 | 14.0690 | 14.0036 | 0.0000 | 0.0000 | 332 | 4,672,236.00 |
| Feb 2019 | DAUS | Future | 70 | 14.0917 | 14.0261 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | Future | 6 | 14.0952 | 14.0296 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | Future | 15 | 14.1127 | 14.0469 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | Future | 4,905 | 14.1180 | 14.0521 | 0.0000 | 0.0000 | 556 | 7,851,832.00 |
| Mar 2019 | DAUS | Future | 80 | 14.1267 | 14.0606 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | Future | 3,731 | 14.1653 | 14.0981 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | Future | 4,556 | 14.1688 | 14.1015 | 0.0000 | 0.0000 | 117 | 1,658,241.00 |
| Apr 2019 | DAUS | Future | 55 | 14.1758 | 14.1083 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | Future | 1,280 | 14.2249 | 14.1560 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | Future | 55 | 14.2793 | 14.2089 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | Future | 55 | 14.3342 | 14.2625 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2019 | DAUS | Future | 55 | 14.3891 | 14.3161 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | DAUS | Future | 55 | 14.4458 | 14.3716 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2019 | DAUS | Future | 55 | 14.4992 | 14.4242 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2019 | DAUS | Future | 55 | 14.5508 | 14.4750 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2019 | DAUS | Future | 55 | 14.6081 | 14.5315 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2020 | DAUS | Future | 55 | 14.6674 | 14.5909 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2020 | DAUS | Future | 55 | 14.7228 | 14.6465 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2020 | DAUS | Future | 55 | 14.7820 | 14.7059 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2020 | DAUS | Future | 55 | 14.8412 | 14.7653 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2020 | DAUS | Future | 55 | 14.8928 | 14.8170 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2020 | DAUS | Future | 1,055 | 14.9577 | 14.8822 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2020 | DAUS | Future | 84,000 | 15.0647 | 14.9895 | 0.0000 | 0.0000 | 0 | 0.00 |
| | | | <u>110,282</u> | | | | | <u>1,409.00</u> | <u>19,819,886.60</u> |
| | | | | | | | | | <u>10 908 228.00</u> |
| | | | | | | | | | <u>133 902 449 317.10</u> |
| Option | | | | | | | | | |
| Nov 2018 | DAUS | 13.00 Put | 500 | 0.0898 | 0.3430 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 13.80 Put | 1,000 | 26.9185 | 50.6113 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 13.85 Put | 600 | 38.2077 | 66.9183 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.08 Call | 500 | 39.2423 | 33.8566 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.25 Put | 421 | 298.1846 | 363.2169 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.30 Call | 600 | 10.6752 | 10.1389 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.80 Call | 600 | 0.7074 | 0.7242 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.82 Call | 250 | 0.6244 | 0.6520 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 16.70 Call | 500 | 0.0151 | 0.0151 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 17.31 Call | 500 | 0.0582 | 0.1094 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 15.45 Put | 23,000 | 1478.3215 | 1542.1675 | 0.0000 | 0.0000 | 0 | 0.00 |

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|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Dec 2018 | DAUS | 13.75 Put | 65,000 | 59.8674 | 81.0526 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.90 Put | 30,000 | 108.8830 | 138.0435 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.30 Put | 30,000 | 368.2039 | 422.2106 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.90 Put | 30,000 | 929.8008 | 993.2767 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 15.30 Put | 30,000 | 1327.1204 | 1391.2661 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.50 Put | 25,000 | 20.3011 | 31.9417 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.75 Put | 125 | 65.4885 | 87.6783 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.07 Call | 125 | 110.8224 | 92.0186 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.50 Call | 125 | 21.0377 | 18.4926 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.65 Put | 20,000 | 52.5852 | 71.3537 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.86 Put | 7,500 | 119.1687 | 149.8766 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 15.08 Call | 7,500 | 6.6703 | 5.7404 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 15.69 Call | 20,000 | 1.4067 | 1.2427 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.90 Put | 35,000 | 184.1012 | 217.9006 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.98 Put | 18,000 | 223.3222 | 261.4150 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.30 Put | 35,000 | 429.3261 | 479.6019 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.90 Put | 35,000 | 935.5073 | 996.3720 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 15.30 Put | 35,000 | 1314.2871 | 1377.8224 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.20 Put | 1,000 | 19.9175 | 25.5314 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.30 Put | 1,000 | 25.9671 | 35.6623 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.66 Call | 1,000 | 63.6348 | 56.5729 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.75 Call | 1,000 | 52.2801 | 46.2928 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.00 Put | 500 | 18.1140 | 23.9757 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.80 Put | 1,000 | 179.5166 | 208.6691 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.22 Call | 500 | 203.1598 | 184.2440 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.25 Put | 250 | 426.9754 | 473.5964 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.96 Put | 250 | 1001.3678 | 1060.2685 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 16.93 Call | 500 | 1.4072 | 1.5218 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 17.58 Call | 500 | 1.3978 | 1.4916 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 13.57 Put | 600 | 108.9327 | 130.4678 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 13.93 Call | 600 | 339.5366 | 308.0273 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 14.35 Call | 600 | 178.0127 | 161.7142 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 13.64 Put | 250 | 139.8218 | 163.7795 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 14.12 Call | 250 | 270.7905 | 247.5141 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 14.65 Call | 250 | 123.6596 | 112.4330 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 12.66 Put | 263 | 9.0671 | 12.4823 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 13.00 Put | 500 | 47.2513 | 56.1881 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 14.20 Put | 250 | 472.2482 | 513.9635 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 14.25 Put | 250 | 503.9654 | 546.8085 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 14.38 Call | 500 | 279.6051 | 259.7827 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 15.13 Call | 250 | 119.6255 | 111.1125 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 15.47 Call | 250 | 81.3384 | 75.5613 | 0.0000 | 0.0000 | 0 | 0.00 |

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|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Feb 2019 | DAUS | 13.00 Put | 500 | 79.6132 | 91.9822 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 14.20 Put | 250 | 526.1505 | 568.0440 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 14.25 Put | 250 | 556.9537 | 599.7957 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 14.52 Call | 500 | 334.2644 | 315.8078 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 15.27 Call | 250 | 171.8168 | 162.7172 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 15.63 Call | 250 | 125.4688 | 118.5971 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.00 Put | 65,000 | 463.4000 | 500.5734 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.00 Put | 500 | 112.5439 | 127.5262 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.20 Put | 250 | 578.1038 | 620.2001 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.25 Put | 250 | 608.2151 | 651.1846 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.67 Call | 500 | 385.6591 | 367.6887 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 15.43 Call | 250 | 221.3441 | 211.9785 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 15.79 Call | 250 | 170.3833 | 162.8411 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 13.00 Put | 3,000 | 145.2960 | 162.4779 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 13.49 Call | 2,500 | 1019.8165 | 978.4519 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 14.20 Put | 250 | 623.0607 | 665.2077 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 14.25 Put | 250 | 652.1789 | 695.5211 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 14.84 Call | 500 | 429.0589 | 411.4162 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 15.61 Call | 250 | 265.7872 | 256.1046 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 15.96 Call | 250 | 213.2814 | 205.1051 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 13.00 Put | 500 | 175.7254 | 194.4642 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 14.20 Put | 250 | 661.4159 | 703.8946 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 14.25 Put | 250 | 690.2322 | 733.7084 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 15.01 Call | 500 | 465.3885 | 448.8883 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 15.79 Call | 250 | 304.4890 | 292.9126 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 16.15 Call | 250 | 248.5176 | 239.7693 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 14.72 Put | 20,000 | 1010.6957 | 1058.9390 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 17.22 Call | 20,000 | 171.8403 | 167.5523 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 13.00 Put | 500 | 202.1812 | 220.2547 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 14.20 Put | 250 | 695.2858 | 735.6228 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 14.25 Put | 250 | 723.9921 | 765.0754 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 15.17 Call | 500 | 498.7406 | 480.0385 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 15.96 Call | 250 | 337.9917 | 324.7080 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 16.32 Call | 250 | 282.0632 | 271.5103 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 13.45 Put | 39,250 | 345.9320 | 371.4020 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 16.44 Call | 39,250 | 275.1371 | 265.1088 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 13.00 Put | 500 | 231.1015 | 248.3236 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 14.20 Put | 250 | 729.8539 | 768.0095 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 14.25 Put | 250 | 758.4072 | 797.2780 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 15.34 Call | 500 | 538.1282 | 517.0986 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 16.14 Call | 250 | 376.4855 | 361.4028 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jul 2019 | DAUS | 16.50 Call | 250 | 320.5142 | 308.2050 | 0.0000 | 0.0000 | 0 | 0.00 |

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|---------------|-----------------|--------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|----------------------|---------------------------|
| Aug 2019 | DAUS | 14.48 Put | 3,147 | 906.3968 | 948.1413 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 16.35 Call | 3,147 | 366.7462 | 353.1688 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 13.00 Put | 500 | 255.4337 | 272.9194 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 14.20 Put | 250 | 757.2011 | 794.0206 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 14.25 Put | 250 | 785.6072 | 823.1600 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 15.52 Call | 500 | 564.6040 | 542.8797 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 16.33 Call | 250 | 404.3868 | 388.7262 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 16.70 Call | 250 | 348.0430 | 334.8106 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 19.00 Call | 20,000 | 176.3080 | 167.1957 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 13.00 Put | 500 | 276.4012 | 295.5900 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 14.20 Put | 250 | 782.6455 | 818.1238 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 14.25 Put | 250 | 810.8874 | 847.0748 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 15.68 Call | 500 | 595.9539 | 572.7907 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 16.50 Call | 250 | 435.8410 | 418.6086 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 16.89 Call | 250 | 377.2425 | 362.7489 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 13.00 Put | 500 | 296.8670 | 317.9728 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 14.20 Put | 250 | 807.2325 | 840.7635 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 14.25 Put | 250 | 835.2949 | 869.5601 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 15.87 Call | 500 | 620.1628 | 595.9458 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 16.70 Call | 250 | 462.2496 | 443.9802 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 17.09 Call | 250 | 405.0493 | 389.3913 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 13.00 Put | 500 | 313.2832 | 330.4815 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 14.20 Put | 250 | 828.1658 | 859.6729 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 14.25 Put | 250 | 856.0919 | 888.2754 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 16.03 Call | 500 | 645.6633 | 619.9002 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 16.87 Call | 250 | 488.8387 | 469.2230 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 17.26 Call | 250 | 432.4854 | 415.2652 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 13.00 Put | 500 | 330.2135 | 347.5801 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 14.20 Put | 250 | 850.0788 | 881.3373 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 14.25 Put | 250 | 877.9171 | 909.8162 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 16.21 Call | 500 | 675.7435 | 650.6565 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 17.05 Call | 250 | 522.3422 | 503.4803 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 17.44 Call | 250 | 466.5637 | 450.0792 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>700,953</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>21 944 683.00</u> | <u>0.00</u> |
| | | Total | 811,235 | | | | | 1,409.00 | 19,819,886.60 | 32 852 911.00 | 133 902 449 317.10 |
| Future | | | | | | | | | | | |
| Dec 2018 | EUUS | Future | 50 | 1.1285 | 1.1316 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>50</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>744 705.00</u> | <u>8 448 109 050.00</u> |
| | | Total | 50 | | | | | 0.00 | 0.00 | 744 705.00 | 8 448 109 050.00 |

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | | CUMULATIVE VOLUME | |
|---------------|----------|--------------|----------------|-----------|-----------|---------|---------|-----------------|-----------------------|-------------------|--------------------|
| Dec 2018 | GBUS | Future | 250 | 1.2783 | 1.2748 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | 250 | | | | | 0.00 | 0.00 | 170 239.00 | 2 190 649 727.00 |
| | | Total | 250 | | | | | 0.00 | 0.00 | 170 239.00 | 2 190 649 727.00 |
| Future | | | | | | | | | | | |
| Dec 2018 | ZAAD | Future | 19,696 | 10.1151 | 10.0562 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAAD | Future | 324 | 10.2490 | 10.1883 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAAD | Future | 4,934 | 10.3789 | 10.3148 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | 24,954 | | | | | 0.00 | 0.00 | 3 774 293.00 | 32 946 771 770.10 |
| | | Total | 24,954 | | | | | 0.00 | 0.00 | 3 806 670.00 | 32 946 771 770.10 |
| Future | | | | | | | | | | | |
| Dec 2018 | ZACA | Future | 700 | 10.4893 | 10.4909 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZACA | Future | 250 | 10.6321 | 10.6327 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZACA | Future | 250 | 10.7805 | 10.7780 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | 1,200 | | | | | 0.00 | 0.00 | 140 963.00 | 1 391 359 940.10 |
| | | Total | 1,200 | | | | | 0.00 | 0.00 | 140 963.00 | 1 391 359 940.10 |
| Future | | | | | | | | | | | |
| Dec 2018 | ZADK | Future | 140 | 2.1218 | 2.1178 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | 140 | | | | | 0.00 | 0.00 | 12 435.00 | 267 991 609.00 |
| | | Total | 140 | | | | | 0.00 | 0.00 | 12 435.00 | 267 991 609.00 |
| Future | | | | | | | | | | | |
| Dec 2018 | ZAEU | Future | 121,488 | 15.7856 | 15.7550 | 15.8275 | 15.7789 | 8,627 | 136,103,157.90 | | |
| Mar 2019 | ZAEU | Future | 36,962 | 16.1052 | 16.0734 | 16.1237 | 16.1237 | 216 | 3,460,185.80 | | |
| Jun 2019 | ZAEU | Future | 4,675 | 16.4100 | 16.3731 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAEU | Future | 9,941 | 16.7458 | 16.7043 | 0.0000 | 0.0000 | 891 | 14,886,828.00 | | |
| | | | 173,066 | | | | | 9,734.00 | 154,450,171.70 | 15 716 298.00 | 226 234 975 715.30 |
| Option | | | | | | | | | | | |
| Mar 2019 | ZAEU | 15.60 Put | 462 | 312.4440 | 324.4393 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAEU | 16.00 Call | 650 | 605.5308 | 588.3639 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAEU | 17.33 Put | 462 | 1444.8474 | 1469.9328 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAEU | 19.65 Call | 462 | 36.7243 | 35.0735 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAEU | 18.60 Call | 55,000 | 498.4718 | 488.1427 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAEU | 13.73 Put | 17,150 | 99.0432 | 103.2751 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAEU | 16.15 Put | 17,150 | 691.6564 | 705.4679 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAEU | 20.62 Call | 17,150 | 423.3116 | 419.0626 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | 108,486 | | | | | 0.00 | 0.00 | 10 956 414.00 | 0.00 |
| | | Total | 281,552 | | | | | 9,734.00 | 154,450,171.70 | 26 672 712.00 | 226 234 975 715.30 |

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | CUMULATIVE VOLUME | | |
|---------------|----------|--------------|----------------|-----------|-----------|---------|---------|-----------------|----------------------|----------------------|---------------------------|
| Future | | | | | | | | | | | |
| Dec 2018 | ZAFR | Future | 1,266 | 14.0147 | 13.9475 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAFR | Future | 150 | 14.5998 | 14.5252 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>1,416</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>621 258.00</u> | <u>6 677 568 092.80</u> |
| | | Total | 1,416 | | | | | 0.00 | 0.00 | 621 258.00 | 6 677 568 092.80 |
| Future | | | | | | | | | | | |
| Dec 2018 | ZAGB | Future | 417,903 | 17.8801 | 17.7492 | 17.9051 | 17.9051 | 278 | 4,963,226.00 | | |
| Mar 2019 | ZAGB | Future | 12,349 | 18.1758 | 18.0409 | 18.2250 | 18.1209 | 131 | 2,381,814.90 | | |
| Jun 2019 | ZAGB | Future | 5,301 | 18.4562 | 18.3146 | 18.4450 | 18.4239 | 930 | 17,135,391.00 | | |
| Sep 2019 | ZAGB | Future | 11,480 | 18.7621 | 18.6144 | 18.7373 | 18.6926 | 975 | 18,240,144.00 | | |
| Dec 2019 | ZAGB | Future | 0 | 19.0547 | 18.9017 | 19.0146 | 19.0146 | 500 | 9,507,300.00 | | |
| Mar 2020 | ZAGB | Future | 0 | 19.3829 | 19.2286 | 19.3120 | 19.3120 | 500 | 9,656,000.00 | | |
| | | | <u>447,033</u> | | | | | <u>3,314.00</u> | <u>61,883,875.90</u> | <u>12 942 560.00</u> | <u>220 385 472 360.90</u> |
| | | Total | | | | | | 3,314.00 | 61,883,875.90 | 12 942 560.00 | 220 385 472 360.90 |
| Option | | | | | | | | | | | |
| Dec 2018 | ZAGB | 19.30 Call | 200 | 13.2698 | 12.0203 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAGB | 18.00 Put | 500 | 574.4076 | 640.5053 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAGB | 19.19 Put | 1,000 | 1333.4444 | 1435.1623 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAGB | 20.00 Call | 500 | 174.4633 | 154.8402 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAGB | 20.18 Call | 1,500 | 151.3284 | 134.4583 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAGB | 21.44 Call | 500 | 55.0044 | 49.8642 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>4,200</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>1 779 113.00</u> | <u>0.00</u> |
| | | Total | 451,233 | | | | | 3,314.00 | 61,883,875.90 | 14 721 673.00 | 220 385 472 360.90 |
| Future | | | | | | | | | | | |
| Dec 2018 | ZAJY | Future | 6,905 | 0.1229 | 0.1226 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>6,905</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>1 021 902.00</u> | <u>11 470 576 312.50</u> |
| | | Total | 6,905 | | | | | 0.00 | 0.00 | 1 021 902.00 | 11 470 576 312.50 |
| Future | | | | | | | | | | | |
| Jun 2019 | ZAKS | Future | 2,166 | 0.1356 | 0.1331 | 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> |
| | | Total | 2,166 | | | | | 0.00 | 0.00 | 38 066.00 | 515 662 000.00 |
| Future | | | | | | | | | | | |
| Dec 2018 | ZAUM | Future | 449 | 13.9879 | 13.9234 | 0.0000 | 0.0000 | 20 | 27,940,000.00 | | |
| Mar 2019 | ZAUM | Future | 10 | 14.1495 | 14.0828 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>459</u> | | | | | <u>20.00</u> | <u>27,940,000.00</u> | <u>153 976.00</u> | <u>178 241 637 080.00</u> |
| | | Total | 459 | | | | | 20.00 | 27,940,000.00 | 158 499.00 | 178 241 637 080.00 |

Future

| <u>DATE</u> | <u>CONTRACT</u> | | <u>OPEN INT</u> | <u>MTM</u> | <u>PREV MTM</u> | <u>HIGH</u> | <u>LOW</u> | <u>DAILY VOLUME</u> | <u>CUMULATIVE VOLUME</u> |
|-------------|-----------------|--------|-----------------|------------|-----------------|-------------|------------|---------------------|-----------------------------|
| Dec 2018 | ZAUS | Future | 782,757 | 13.9879 | 13.9234 | 14.0212 | 13.9301 | 32,514 | 454,290,206.80 |
| Mar 2019 | ZAUS | Future | 61,442 | 14.1495 | 14.0828 | 14.1461 | 14.1125 | 6,517 | 92,101,111.00 |
| Jun 2019 | ZAUS | Future | 18,729 | 14.3041 | 14.2331 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | ZAUS | Future | 14,099 | 14.4707 | 14.3961 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2019 | ZAUS | Future | 9,600 | 14.6291 | 14.5526 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2020 | ZAUS | Future | 3,966 | 14.8087 | 14.7327 | 0.0000 | 0.0000 | 0 | 0.00 |
| | | | <u>890,593</u> | | | | | <u>39,031.00</u> | <u>546,391,317.80</u> |
| | | | | | | | | | <u>190 137 577.00</u> |
| | | | | | | | | | <u>2 283 109 395 146.40</u> |

Option

| | | | | | | | | | |
|----------|------|------------|---------|-----------|-----------|--------|--------|---|------|
| Dec 2018 | ZAUS | 11.64 Put | 2,764 | 0.0795 | 0.0014 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 11.75 Put | 228,616 | 0.1177 | 0.0052 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 11.90 Put | 11,300 | 0.2005 | 0.0249 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.00 Put | 174,530 | 0.2857 | 0.0641 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.02 Put | 5,500 | 0.3066 | 0.0766 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.10 Put | 8,580 | 0.4067 | 0.1523 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.20 Put | 7,300 | 0.5785 | 0.3370 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.25 Put | 3,300 | 0.6897 | 0.4890 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.38 Put | 39,589 | 1.0876 | 1.1978 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.50 Call | 228,616 | 1489.5525 | 1425.9162 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.50 Put | 26,400 | 1.6525 | 2.5162 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.63 Put | 39,589 | 2.4744 | 3.1562 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.68 Put | 10,000 | 2.7256 | 3.4555 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.75 Put | 1,000 | 3.1323 | 3.9384 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.95 Put | 500 | 4.7866 | 5.8892 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.00 Call | 6,000 | 993.2583 | 929.9610 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.00 Put | 89,580 | 5.3583 | 6.5610 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.05 Put | 1,500 | 6.0166 | 7.3337 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.10 Put | 11,300 | 6.7770 | 8.2258 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.20 Call | 7,100 | 796.5853 | 733.8868 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.22 Put | 5,500 | 9.1427 | 11.8011 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.25 Call | 10,000 | 747.7851 | 687.4199 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.25 Put | 17,800 | 9.8851 | 14.0199 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.32 Put | 13,650 | 12.7509 | 20.5073 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.33 Put | 135,000 | 13.5345 | 21.6002 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.45 Call | 500 | 564.1450 | 511.9753 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.45 Put | 4,080 | 26.2450 | 38.5753 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.50 Call | 228,616 | 521.5596 | 471.4378 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.50 Put | 29,800 | 33.6596 | 48.0378 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.60 Put | 68,500 | 53.0346 | 71.8858 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.68 Put | 13,150 | 73.4787 | 96.1641 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.70 Put | 7,300 | 79.3363 | 103.0013 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.75 Put | 700 | 95.3437 | 121.4776 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.79 Put | 10,000 | 109.5886 | 137.7036 | 0.0000 | 0.0000 | 0 | 0.00 |

| <u>DATE</u> | <u>CONTRACT</u> | | <u>OPEN INT</u> | <u>MTM</u> | <u>PREV MTM</u> | <u>HIGH</u> | <u>LOW</u> | <u>DAILY VOLUME</u> | <u>CUMULATIVE VOLUME</u> |
|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Dec 2018 | ZAUS | 13.80 Call | 500 | 301.2521 | 265.3612 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.80 Put | 500 | 113.3521 | 141.9612 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.90 Put | 35,000 | 155.5212 | 189.0050 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.95 Call | 39,589 | 217.5962 | 190.0397 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.00 Call | 20,000 | 193.8039 | 169.6107 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.00 Put | 53,250 | 205.9039 | 246.2107 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.10 Put | 1,867 | 265.7696 | 310.7954 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.12 Put | 4,372 | 278.6314 | 324.5264 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.13 Call | 20,000 | 143.0687 | 124.8881 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.15 Put | 115,000 | 298.4507 | 345.5993 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.16 Put | 36,200 | 305.1937 | 352.7480 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.20 Call | 51,000 | 120.7231 | 105.3315 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.20 Put | 13,650 | 332.8231 | 381.9315 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.24 Put | 24,570 | 361.4636 | 412.0208 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.25 Call | 51,000 | 106.6735 | 93.0774 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.30 Put | 35,000 | 406.1872 | 458.7238 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.33 Call | 100 | 87.1880 | 76.1301 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.33 Put | 31,047 | 429.2880 | 482.7301 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.35 Call | 500 | 82.8462 | 72.3600 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.35 Put | 4,428 | 444.9462 | 498.9600 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.39 Put | 1,000 | 476.8459 | 531.9339 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.40 Call | 100,000 | 72.8375 | 63.6793 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.44 Call | 11,300 | 65.6441 | 57.4458 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.50 Call | 13,700 | 56.0806 | 49.1645 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.50 Put | 15,500 | 568.1806 | 625.7645 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.51 Put | 3,388 | 576.7196 | 634.4995 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.60 Call | 81,900 | 42.9934 | 37.8354 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.60 Put | 1,000 | 655.0934 | 714.4354 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.61 Call | 1,500 | 41.8579 | 36.8135 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.62 Call | 5,500 | 40.7513 | 35.8152 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.67 Put | 3,000 | 717.7258 | 777.7953 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.70 Call | 70,000 | 32.8558 | 28.7013 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.74 Put | 13,150 | 781.5202 | 842.2695 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.75 Call | 127,100 | 28.6170 | 24.9608 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.75 Put | 700 | 790.7170 | 851.5608 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.80 Call | 400 | 24.9072 | 21.6901 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.80 Put | 135,000 | 837.0072 | 898.2901 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.82 Call | 250 | 23.5579 | 20.5014 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.84 Call | 1,000 | 22.2794 | 19.3753 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.85 Call | 50,000 | 21.6660 | 18.8350 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.90 Put | 35,000 | 930.9372 | 992.9453 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.00 Call | 101,333 | 14.2251 | 12.2922 | 0.0000 | 0.0000 | 0 | 0.00 |

| <u>DATE</u> | <u>CONTRACT</u> | | <u>OPEN INT</u> | <u>MTM</u> | <u>PREV MTM</u> | <u>HIGH</u> | <u>LOW</u> | <u>DAILY VOLUME</u> | <u>CUMULATIVE VOLUME</u> |
|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Dec 2018 | ZAUS | 15.00 Put | 10,000 | 1026.3251 | 1088.8922 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.01 Call | 10,000 | 13.8305 | 11.9458 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.09 Call | 500 | 11.0413 | 9.5004 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.10 Call | 500 | 10.7348 | 9.2319 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.15 Call | 27,030 | 9.3246 | 7.9981 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.20 Call | 50 | 8.1005 | 6.9286 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.20 Put | 50 | 1220.2005 | 1283.5286 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.25 Put | 500 | 1269.1381 | 1332.6023 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.30 Put | 35,000 | 1318.2165 | 1381.8007 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.37 Call | 4,372 | 5.0280 | 4.4374 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.46 Call | 1,867 | 4.0467 | 3.6352 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.48 Call | 29,600 | 3.8729 | 3.4801 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.50 Call | 5,000 | 3.7075 | 3.3326 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.50 Put | 600 | 1515.8075 | 1579.9326 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.51 Call | 24,570 | 3.6280 | 3.2614 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.59 Call | 31,047 | 3.0572 | 2.7513 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.60 Call | 500 | 2.9934 | 2.6941 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.61 Call | 4,428 | 2.9312 | 2.6384 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.70 Call | 7,500 | 2.4337 | 2.1925 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.73 Call | 135,000 | 2.2903 | 2.0639 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.84 Put | 2,000 | 1853.9427 | 1918.2616 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.85 Call | 20,300 | 1.8073 | 1.6299 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.91 Call | 1,406 | 1.6115 | 1.4535 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 16.00 Call | 5,000 | 1.3630 | 1.2295 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 16.11 Call | 38,250 | 1.1190 | 1.0092 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 16.14 Call | 10,000 | 1.0618 | 0.9576 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 16.20 Call | 2,000 | 0.9578 | 0.8636 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 16.24 Call | 750 | 0.8953 | 0.8071 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 16.56 Call | 13,650 | 0.5411 | 0.4864 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 16.80 Call | 13,150 | 0.3859 | 0.3789 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 17.00 Call | 3,700 | 0.3354 | 0.3493 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 10.33 Put | 1,000 | 1.6865 | 1.9615 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 11.74 Put | 1,000 | 13.3282 | 15.1235 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 12.47 Put | 721 | 40.4104 | 45.6566 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 12.51 Put | 720 | 42.8596 | 48.4051 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 12.90 Put | 16,000 | 82.2960 | 94.6382 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 12.92 Put | 139,342 | 85.5596 | 98.2512 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.00 Put | 15,434 | 99.5732 | 113.7179 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.05 Put | 1,155 | 109.1463 | 124.2385 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.12 Put | 138,000 | 123.6496 | 140.1095 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.15 Put | 10,125 | 130.2698 | 147.3313 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.25 Put | 224,707 | 154.1547 | 173.2850 | 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 | 13.33 Put | 135,043 | 175.3470 | 196.1880 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.36 Put | 134,750 | 183.7840 | 205.2800 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.40 Put | 2,100 | 195.4626 | 217.8389 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.46 Put | 20,000 | 214.1498 | 239.0246 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.50 Put | 2,550 | 228.0441 | 253.8392 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.55 Put | 10,000 | 246.1787 | 273.1168 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.60 Put | 9,570 | 265.1624 | 293.2460 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.68 Put | 14,200 | 297.3125 | 327.2139 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.70 Put | 2,500 | 305.6882 | 336.0423 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.72 Put | 10,000 | 314.2025 | 345.0049 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.75 Put | 17,981 | 327.2263 | 358.7011 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.79 Put | 262,812 | 345.0628 | 377.4265 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.85 Put | 1,000 | 372.8245 | 406.5077 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.86 Put | 721 | 377.5670 | 411.4671 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.90 Put | 720 | 396.8709 | 431.6385 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.00 Put | 22,406 | 447.4205 | 484.3011 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.04 Put | 7,100 | 468.5439 | 506.2498 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.20 Call | 2,000 | 508.2978 | 483.2587 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.20 Put | 2,000 | 558.7978 | 600.4587 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.28 Put | 7,028 | 607.6708 | 650.8275 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.30 Call | 250 | 469.6787 | 446.4987 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.35 Put | 139,342 | 651.9408 | 696.3514 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.42 Put | 2,100 | 697.5581 | 743.1664 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.44 Put | 7,000 | 710.8315 | 756.7728 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.45 Put | 1,000 | 717.5074 | 763.6120 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.48 Call | 1,000 | 407.1901 | 387.0842 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.50 Call | 224,707 | 400.7726 | 380.9868 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.50 Put | 20,050 | 751.2726 | 798.1868 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.53 Put | 108 | 771.8316 | 819.2193 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.56 Put | 138,000 | 792.6155 | 840.4641 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.65 Put | 10,000 | 856.2563 | 905.4342 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.74 Put | 24,326 | 921.7428 | 972.1695 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.80 Call | 2,000 | 315.8678 | 300.3840 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.81 Put | 135,043 | 973.8785 | 1025.2294 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.82 Put | 4,145 | 981.4095 | 1032.8941 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.83 Put | 10,010 | 988.9607 | 1040.5780 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.84 Put | 134,750 | 996.5320 | 1048.2810 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.00 Call | 1,260 | 269.8531 | 256.8148 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.04 Put | 63,500 | 1152.0357 | 1206.1383 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.10 Put | 1,000 | 1200.0728 | 1254.8106 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.12 Put | 99,824 | 1216.2163 | 1271.1590 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.13 Put | 7,100 | 1224.3134 | 1279.3561 | 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 | 15.17 Call | 720 | 236.3576 | 225.0968 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.19 Put | 41,300 | 1273.2215 | 1328.8542 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.20 Put | 2,500 | 1281.4251 | 1337.1545 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.22 Call | 2,785 | 227.3823 | 216.5978 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.32 Put | 262,812 | 1381.0289 | 1437.8415 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.40 Call | 2,000 | 198.0360 | 188.8134 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.45 Call | 20,000 | 190.6490 | 181.8181 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.46 Call | 108 | 189.2069 | 180.4537 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.50 Call | 224,757 | 183.5662 | 175.1103 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.52 Call | 1 | 180.8155 | 172.3440 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.54 Call | 721 | 178.1111 | 169.6219 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.66 Call | 139,342 | 161.9132 | 154.2207 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.81 Call | 10 | 143.7583 | 137.0455 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.83 Call | 135,043 | 141.5076 | 134.9162 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.89 Call | 4,145 | 134.9825 | 128.7409 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.98 Call | 2,100 | 125.7968 | 120.0484 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.00 Call | 1,906 | 123.8491 | 118.2052 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.13 Call | 138,000 | 111.9664 | 106.9594 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.30 Call | 10,000 | 98.2820 | 94.0015 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.38 Call | 134,750 | 92.4951 | 88.5184 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.58 Call | 10,000 | 79.6269 | 76.3214 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.60 Call | 50 | 78.4552 | 75.2104 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.96 Call | 12,600 | 60.3957 | 58.3631 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.97 Call | 63,500 | 59.9677 | 58.0036 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.02 Call | 262,812 | 57.9623 | 56.2468 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.08 Call | 7,028 | 55.8087 | 54.2281 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.09 Call | 99,824 | 55.4593 | 53.9014 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.10 Call | 2,500 | 55.1138 | 53.5762 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.23 Call | 41,300 | 50.8561 | 49.5814 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.30 Call | 10,125 | 48.7377 | 47.5921 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.50 Call | 16,000 | 43.2879 | 42.4652 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 18.00 Call | 14,200 | 32.7943 | 32.5553 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 18.40 Call | 7,100 | 26.7660 | 26.1677 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 10.69 Put | 1,000 | 6.7662 | 7.3142 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 12.28 Put | 1,000 | 65.6318 | 73.9052 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 12.75 Put | 1,000 | 134.4658 | 149.0932 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 12.98 Put | 911 | 184.1959 | 202.4945 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.00 Put | 8,203 | 189.1444 | 207.7709 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.24 Put | 30,000 | 255.6798 | 278.3545 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.83 Put | 25,000 | 484.8433 | 519.5492 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.88 Put | 5,035 | 509.1601 | 544.7714 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.98 Call | 1,000 | 883.7564 | 850.1425 | 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 | 694.1939 | 667.8648 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 14.58 Call | 1,000 | 635.9947 | 611.9524 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 14.63 Put | 8,203 | 944.7509 | 992.3910 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 14.82 Call | 30,000 | 557.9847 | 537.0694 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 15.10 Call | 1,000 | 480.0974 | 462.5657 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 15.62 Call | 5,035 | 367.0455 | 354.0776 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 15.80 Call | 1,000 | 334.7355 | 322.4596 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 15.92 Call | 911 | 313.8663 | 302.5054 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 16.00 Call | 20 | 300.7546 | 289.9654 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 17.96 Call | 8,203 | 126.6397 | 124.5083 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 10.75 Put | 1,000 | 11.4572 | 12.7485 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 12.50 Put | 1,000 | 130.8656 | 144.6944 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 13.91 Put | 81,930 | 616.7692 | 648.2812 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 13.97 Put | 800 | 647.3553 | 679.7657 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 14.09 Put | 33,715 | 710.7214 | 744.9099 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 14.14 Put | 141,127 | 737.9692 | 772.8885 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 14.21 Put | 2,700 | 776.9428 | 812.8731 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 14.33 Put | 33,151 | 845.9224 | 883.5516 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 14.72 Put | 1,200 | 1086.1768 | 1128.5496 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.38 Put | 5,000 | 1546.2368 | 1596.1224 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.56 Put | 2,571 | 1682.0880 | 1733.7036 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.87 Call | 1,000 | 525.1214 | 504.6364 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 17.23 Call | 800 | 310.6977 | 299.0125 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 17.64 Call | 5,000 | 274.4097 | 265.5868 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 17.85 Call | 2,700 | 259.5712 | 251.5290 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 17.93 Call | 2,571 | 254.2929 | 246.5278 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 18.29 Call | 81,930 | 232.8231 | 226.1920 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 18.47 Call | 1,200 | 223.3421 | 217.2147 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 18.63 Call | 33,715 | 215.5395 | 209.8277 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 18.67 Call | 141,127 | 213.6739 | 208.0630 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 19.32 Call | 33,151 | 162.6051 | 153.9823 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 11.89 Put | 1,000 | 62.6678 | 63.7174 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 13.66 Put | 1,000 | 571.8255 | 594.3015 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 17.38 Call | 1,000 | 441.7410 | 425.8465 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 20.00 Call | 2,000 | 212.0009 | 201.0650 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>7,845,452</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>62 050 925.00</u> | <u>0.00</u> |
| | Total | | 8,736,045 | | | | | 39,031.00 | 546,391,317.80 | 252 188 502.00 | 2 283 109 395 146.40 |

| <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

10,466,306

53,515.00

810 603 832.00

345,002,406

3,164,403,373,072.83