



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 31-July-2018

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | | CUMULATIVE VOLUME | |
|---------------|----------|--------------|---------------|----------|----------|--------|--------|--------------|-------------------|---------------------|--------------------------|
| Future | | | | | | | | | | | |
| Oct 2018 | CC01 | Future | 25,000 | 289.5942 | 315.8668 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>25,000</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>25 000.00</u> | <u>7 830 750.00</u> |
| | | Total | 25,000 | | | | | 0.00 | 0.00 | 25 000.00 | 7 830 750.00 |
| Future | | | | | | | | | | | |
| Jul 2018 | DAEU | Future | 0 | 15.3797 | 15.4021 | 0.0000 | 0.0000 | 33 | 506,715.00 | | |
| Sep 2018 | DAEU | Future | 34 | 15.4373 | 15.5143 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>34</u> | | | | | <u>33.00</u> | <u>506,715.00</u> | <u>801 260.00</u> | <u>11 964 751 196.80</u> |
| | | Total | 34 | | | | | 33.00 | 506,715.00 | 1 758 047.00 | 11 964 751 196.80 |
| Future | | | | | | | | | | | |
| Sep 2018 | DAGB | Future | 14 | 17.3437 | 17.4611 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>14</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>53 769.00</u> | <u>882 198 966.30</u> |
| | | Total | 14 | | | | | 0.00 | 0.00 | 261 082.00 | 882 198 966.30 |
| Future | | | | | | | | | | | |
| Jul 2018 | DAUS | Future | 0 | 13.1375 | 13.1505 | 0.0000 | 0.0000 | 1,262 | 16,579,525.00 | | |
| Aug 2018 | DAUS | Future | 55 | 13.0999 | 13.1505 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | Future | 420 | 13.1050 | 13.1574 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | Future | 70 | 13.1169 | 13.1693 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | Future | 4,144 | 13.1202 | 13.1727 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | Future | 600 | 13.1287 | 13.1812 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | Future | 3,299 | 13.1472 | 13.1998 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2018 | DAUS | Future | 197 | 13.1523 | 13.2049 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2018 | DAUS | Future | 5,532 | 13.1946 | 13.2478 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2018 | DAUS | Future | 55 | 13.2013 | 13.2546 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2018 | DAUS | Future | 235 | 13.2269 | 13.2802 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2018 | DAUS | Future | 70 | 13.2405 | 13.2938 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2018 | DAUS | Future | 225 | 13.2473 | 13.3007 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2018 | DAUS | Future | 3,608 | 13.2508 | 13.3041 | 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> | | |
|---------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|----------------------|---------------------------|
| Nov 2018 | DAUS | Future | 55 | 13.2525 | 13.3058 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2018 | DAUS | Future | 70 | 13.2726 | 13.3260 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2018 | DAUS | Future | 420 | 13.2777 | 13.3311 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2018 | DAUS | Future | 461 | 13.2995 | 13.3530 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2018 | DAUS | Future | 3,363 | 13.3011 | 13.3547 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | DAUS | Future | 2,078 | 13.3532 | 13.4070 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2019 | DAUS | Future | 55 | 13.3565 | 13.4103 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2019 | DAUS | Future | 55 | 13.4035 | 13.4576 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2019 | DAUS | Future | 1,225 | 13.4052 | 13.4593 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Feb 2019 | DAUS | Future | 70 | 13.4269 | 13.4808 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Feb 2019 | DAUS | Future | 4,725 | 13.4520 | 13.5055 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | DAUS | Future | 4,414 | 13.4971 | 13.5501 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAUS | Future | 55 | 13.5072 | 13.5600 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAUS | Future | 1,280 | 13.5540 | 13.6062 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| May 2019 | DAUS | Future | 55 | 13.6057 | 13.6583 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | DAUS | Future | 29,000 | 13.6107 | 13.6634 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | Future | 55 | 13.6574 | 13.7105 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | Future | 55 | 13.7091 | 13.7626 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | Future | 55 | 13.7667 | 13.8209 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | Future | 55 | 13.8208 | 13.8755 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | Future | 55 | 13.8731 | 13.9283 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | Future | 55 | 13.9308 | 13.9866 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2020 | DAUS | Future | 55 | 13.9867 | 14.0431 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2020 | DAUS | Future | 55 | 14.0390 | 14.0959 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2020 | DAUS | Future | 55 | 14.0949 | 14.1523 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2020 | DAUS | Future | 55 | 14.1509 | 14.2088 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2020 | DAUS | Future | 55 | 14.1996 | 14.2580 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2020 | DAUS | Future | 1,055 | 14.2609 | 14.3199 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2020 | DAUS | Future | 84,000 | 14.3619 | 14.4219 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>151,551</u> | | | | | <u>1,262.00</u> | <u>16,579,525.00</u> | <u>10 489 185.00</u> | <u>127 884 421 437.90</u> |
| Option | | | | | | | | | | | |
| Aug 2018 | DAUS | 12.32 Put | 1,880 | 1.1542 | 1.1516 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 13.86 Put | 1,880 | 755.9113 | 705.2921 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 16.18 Call | 1,880 | 0.0570 | 0.0484 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 13.18 Put | 350 | 189.3613 | 170.9703 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 13.22 Call | 350 | 114.5445 | 146.5692 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 13.43 Put | 106 | 367.3648 | 336.3711 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 13.55 Call | 106 | 37.8896 | 54.2765 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 12.92 Put | 20,000 | 82.0162 | 0.0000 | 0.0000 | 0.0000 | 20,000 | 0.00 | | |
| Aug 2018 | DAUS | 13.21 Put | 50,000 | 239.0924 | 217.1134 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 13.23 Put | 35,000 | 264.7464 | 241.4327 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 13.00 Put | 500 | 157.3671 | 143.0065 | 0.0000 | 0.0000 | 0 | 0.00 | | |

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|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Aug 2018 | DAUS | 13.65 Call | 500 | 79.6354 | 95.3497 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2018 | DAUS | 13.80 Put | 1,000 | 710.1881 | 669.8367 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2018 | DAUS | 16.05 Call | 500 | 0.5477 | 0.6454 | 0.0000 | 0.0000 | 0 | 0.00 |
| Aug 2018 | DAUS | 16.57 Call | 500 | 0.6505 | 0.7395 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 12.90 Put | 100 | 136.3890 | 124.5937 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.09 Put | 600 | 216.4411 | 199.3144 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.32 Call | 600 | 188.7628 | 215.5050 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.45 Call | 100 | 148.5519 | 171.3371 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.80 Call | 100 | 76.3438 | 90.3442 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.90 Call | 600 | 62.7003 | 74.8511 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.30 Put | 747 | 349.7855 | 324.9587 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.00 Put | 500 | 221.8662 | 207.0074 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.78 Call | 500 | 137.2331 | 155.4763 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.80 Put | 1,000 | 738.6832 | 703.3303 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 16.25 Call | 500 | 3.3315 | 4.0320 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 16.80 Call | 500 | 2.1099 | 2.6863 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 13.51 Call | 5,000 | 244.9350 | 270.3617 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 13.20 Put | 1,630 | 355.9818 | 336.7399 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 14.00 Call | 1,630 | 152.2198 | 169.3495 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 13.00 Put | 500 | 271.9139 | 256.8650 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 13.80 Put | 1,000 | 765.4488 | 733.5528 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 13.93 Call | 500 | 187.0178 | 206.2602 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 16.47 Call | 500 | 9.3382 | 11.0278 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 17.02 Call | 500 | 4.0453 | 4.7883 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 11.90 Put | 1,880 | 26.6297 | 25.0166 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 13.86 Put | 1,880 | 814.8105 | 782.2489 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 16.81 Call | 1,880 | 6.2757 | 7.3868 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 10.83 Put | 51,000 | 5.8440 | 5.5920 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 11.67 Put | 51,000 | 22.1674 | 21.8427 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 13.22 Call | 51,000 | 458.9895 | 492.9106 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 13.00 Put | 500 | 309.8348 | 293.9598 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 13.80 Put | 1,000 | 789.7160 | 759.4466 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.08 Call | 500 | 224.2079 | 243.4260 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 16.70 Call | 500 | 21.6083 | 25.2049 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 17.31 Call | 500 | 13.2551 | 16.1830 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.65 Put | 20,000 | 691.7745 | 664.3725 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 15.69 Call | 20,000 | 61.3779 | 67.8553 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.20 Put | 1,000 | 428.6571 | 409.4150 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.30 Put | 1,000 | 482.2449 | 461.4806 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.66 Call | 1,000 | 167.0758 | 181.0593 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.75 Call | 1,000 | 155.0392 | 168.6600 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.00 Put | 500 | 339.4261 | 323.1910 | 0.0000 | 0.0000 | 0 | 0.00 |

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|---------------|--------------|------------|----------------|-----------|-----------|--------|--------|------------------|----------------------|----------------------|---------------------------|
| Dec 2018 | DAUS | 13.80 Put | 1,000 | 808.1390 | 779.1676 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | DAUS | 14.22 Call | 500 | 257.5288 | 276.7781 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | DAUS | 16.93 Call | 500 | 36.3553 | 39.9495 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | DAUS | 17.58 Call | 500 | 23.2605 | 26.4930 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2019 | DAUS | 12.66 Put | 263 | 223.2714 | 212.5886 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2019 | DAUS | 13.00 Put | 500 | 366.4395 | 350.0670 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2019 | DAUS | 14.38 Call | 500 | 284.9089 | 304.1226 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Feb 2019 | DAUS | 13.00 Put | 500 | 389.3831 | 372.8207 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Feb 2019 | DAUS | 14.52 Call | 500 | 310.7619 | 329.2357 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | DAUS | 13.00 Put | 500 | 410.4346 | 394.8062 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | DAUS | 14.67 Call | 500 | 334.1708 | 352.0718 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAUS | 13.00 Put | 3,000 | 431.5060 | 415.0335 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAUS | 13.49 Call | 2,500 | 747.1522 | 777.6861 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAUS | 14.84 Call | 500 | 356.2363 | 373.3583 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| May 2019 | DAUS | 13.00 Put | 500 | 449.9027 | 433.1831 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| May 2019 | DAUS | 15.01 Call | 500 | 374.8724 | 392.5553 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | DAUS | 13.00 Put | 500 | 464.3057 | 447.3939 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | DAUS | 15.17 Call | 500 | 388.4402 | 405.8170 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | 13.45 Put | 39,250 | 692.7009 | 671.2611 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | 16.44 Call | 39,250 | 222.4702 | 232.6396 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | 13.00 Put | 500 | 479.6036 | 464.4096 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | 15.34 Call | 500 | 406.9147 | 424.7340 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 13.00 Put | 500 | 497.1256 | 481.9604 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 15.52 Call | 500 | 425.5048 | 442.9816 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 13.00 Put | 500 | 512.6914 | 497.5901 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 15.68 Call | 500 | 447.3134 | 464.8837 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 13.00 Put | 500 | 527.9532 | 513.3529 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 15.87 Call | 500 | 464.0509 | 481.6147 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 13.00 Put | 500 | 541.4689 | 526.0391 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 16.03 Call | 500 | 481.9276 | 500.0496 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 13.00 Put | 500 | 553.6752 | 538.2436 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 16.21 Call | 500 | 500.2247 | 518.5349 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>436,062</u> | | | | | <u>20,000.00</u> | <u>0.00</u> | <u>19 445 577.00</u> | <u>0.00</u> |
| | Total | | 587,613 | | | | | 21,262.00 | 16,579,525.00 | 29 934 762.00 | 127 884 421 437.90 |
| Option | | | | | | | | | | | |
| Aug 2018 | DAYJ | 8.07 Put | 13,000 | 274.2291 | 413.1919 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAYJ | 8.27 Call | 13,000 | 2991.8313 | 2198.8262 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAYJ | 8.35 Call | 20,000 | 2387.5649 | 1676.3907 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>46,000</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>40 000.00</u> | <u>0.00</u> |
| | Total | | 46,000 | | | | | 0.00 | 0.00 | 40 000.00 | 0.00 |

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | CUMULATIVE VOLUME | | |
|---------------|----------|--------------|----------------|----------|----------|---------|---------|-----------------|----------------------|----------------------|---------------------------|
| Future | | | | | | | | | | | |
| Sep 2018 | EUUS | Future | 145 | 1.1740 | 1.1752 | 1.1780 | 1.1780 | 20 | 235,600.00 | | |
| | | | <u>145</u> | | | | | <u>20.00</u> | <u>235,600.00</u> | <u>729 529.00</u> | <u>8 271 338 487.00</u> |
| | | Total | 145 | | | | | 20.00 | 235,600.00 | 729 529.00 | 8 271 338 487.00 |
| Future | | | | | | | | | | | |
| Sep 2018 | GBUS | Future | 8 | 1.3138 | 1.3174 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>8</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>167 347.00</u> | <u>2 152 897 346.00</u> |
| | | Total | 8 | | | | | 0.00 | 0.00 | 167 347.00 | 2 152 897 346.00 |
| Future | | | | | | | | | | | |
| Sep 2018 | ZAAD | Future | 12,322 | 9.7910 | 9.8031 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | ZAAD | Future | 11,417 | 9.9070 | 9.9199 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAAD | Future | 4,929 | 10.1559 | 10.1686 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>28,668</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>3 685 079.00</u> | <u>32 004 466 141.90</u> |
| | | Total | 28,668 | | | | | 0.00 | 0.00 | 3 717 456.00 | 32 004 466 141.90 |
| Future | | | | | | | | | | | |
| Dec 2018 | ZACA | Future | 595 | 10.2585 | 10.3155 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>595</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>136 818.00</u> | <u>1 346 285 406.10</u> |
| | | Total | 595 | | | | | 0.00 | 0.00 | 136 818.00 | 1 346 285 406.10 |
| Future | | | | | | | | | | | |
| Sep 2018 | ZADK | Future | 245 | 2.0802 | 2.0906 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | ZADK | Future | 15 | 2.1200 | 2.1308 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>260</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>11 835.00</u> | <u>254 651 919.00</u> |
| | | Total | 260 | | | | | 0.00 | 0.00 | 11 835.00 | 254 651 919.00 |
| Future | | | | | | | | | | | |
| Sep 2018 | ZAEU | Future | 132,135 | 15.4691 | 15.5462 | 15.5846 | 15.5846 | 460 | 7,168,916.00 | | |
| Dec 2018 | ZAEU | Future | 33,497 | 15.7538 | 15.8324 | 15.8700 | 15.8025 | 4,876 | 77,407,325.00 | | |
| Mar 2019 | ZAEU | Future | 4,721 | 16.0699 | 16.1486 | 16.1730 | 16.1730 | 720 | 11,624,040.00 | | |
| Jun 2019 | ZAEU | Future | 5,256 | 16.3723 | 16.4517 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>175,609</u> | | | | | <u>6,056.00</u> | <u>96,200,281.00</u> | <u>15 090 601.00</u> | <u>215 608 137 354.20</u> |
| Option | | | | | | | | | | | |
| Sep 2018 | ZAEU | 13.50 Put | 29,734 | 3.3248 | 3.0067 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2018 | ZAEU | 14.25 Put | 57,090 | 18.5339 | 15.6694 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2018 | ZAEU | 15.85 Put | 86,824 | 556.0102 | 508.4457 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2018 | ZAEU | 16.76 Call | 29,734 | 40.1017 | 49.4005 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2018 | ZAEU | 19.56 Call | 86,824 | 2.1518 | 2.3413 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAEU | 16.00 Call | 650 | 757.6424 | 0.0000 | 0.0000 | 0.0000 | 1,300 | 0.00 | | |

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | CUMULATIVE VOLUME | | | |
|---------------|----------|--------------|----------------|---------|----------|---------|---------|-----------------|----------------------|----------------------|--------------------|--------------------|
| | | | 290,856 | | | | | 1,300.00 | 0.00 | 8 025 012.00 | 0.00 | |
| | | Total | 466,465 | | | | | 7,356.00 | 96,200,281.00 | 23 115 613.00 | 215 608 137 354.20 | |
| Future | | | | | | | | | | | | |
| | Sep 2018 | ZAFR | Future | 1,575 | 13.3615 | 13.4306 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Dec 2018 | ZAFR | Future | 400 | 13.6207 | 13.6920 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Jun 2019 | ZAFR | Future | 150 | 14.1834 | 14.2545 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | 2,125 | | | | | 0.00 | 0.00 | 614 653.00 | 6 579 733 890.30 |
| | | Total | 2,125 | | | | | 0.00 | 0.00 | 614 653.00 | 6 579 733 890.30 | |
| Future | | | | | | | | | | | | |
| | Sep 2018 | ZAGB | Future | 226,503 | 17.3109 | 17.4278 | 17.4450 | 17.3300 | 75 | 1,307,700.00 | | |
| | Dec 2018 | ZAGB | Future | 11,534 | 17.5770 | 17.6953 | 17.6550 | 17.6050 | 14 | 247,650.00 | | |
| | Mar 2019 | ZAGB | Future | 4,932 | 17.8673 | 17.9855 | 17.9715 | 17.9715 | 1,000 | 17,971,500.00 | | |
| | Jun 2019 | ZAGB | Future | 6,156 | 18.1402 | 18.2591 | 18.2791 | 18.2791 | 500 | 9,139,550.00 | | |
| | Sep 2019 | ZAGB | Future | 895 | 18.4442 | 18.5670 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | 250,020 | | | | | 1,589.00 | 28,666,400.00 | 11 929 874.00 | 200 868 027 387.10 |
| | | Total | 250,020 | | | | | | 1,589.00 | 28,666,400.00 | 13 703 987.00 | 200 868 027 387.10 |
| Future | | | | | | | | | | | | |
| | Sep 2018 | ZAJY | Future | 115 | 0.1181 | 0.1196 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | 115 | | | | | 0.00 | 0.00 | 993 919.00 | 11 089 418 491.40 |
| | | Total | 115 | | | | | | 0.00 | 0.00 | 993 919.00 | 11 089 418 491.40 |
| Future | | | | | | | | | | | | |
| | Sep 2018 | ZAKS | Future | 562 | 0.1301 | 0.1304 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Jun 2019 | ZAKS | Future | 1,093 | 0.1283 | 0.1268 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | 1,655 | | | | | 0.00 | 0.00 | 35 358.00 | 476 333 960.00 |
| | | Total | 1,655 | | | | | | 0.00 | 0.00 | 35 358.00 | 476 333 960.00 |
| Future | | | | | | | | | | | | |
| | Sep 2018 | ZATR | Future | 1,500 | 2.6320 | 2.6573 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | 1,500 | | | | | 0.00 | 0.00 | 305 794.00 | 1 053 284 652.00 |
| | | Total | 1,500 | | | | | | 0.00 | 0.00 | 305 794.00 | 1 053 284 652.00 |
| Future | | | | | | | | | | | | |
| | Sep 2018 | ZAUM | Future | 345 | 13.1760 | 13.2289 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Dec 2018 | ZAUM | Future | 20 | 13.3246 | 13.3783 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | Mar 2019 | ZAUM | Future | 5 | 13.4821 | 13.5353 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | | 370 | | | | | 0.00 | 0.00 | 152 076.00 | 175 457 435 620.00 |
| | | Total | 370 | | | | | | 0.00 | 0.00 | 156 599.00 | 175 457 435 620.00 |

| <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> |
|---------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|-----------------------------|
| Future | | | | | | | | | |
| Sep 2018 | ZAUS | Future | 451,804 | 13.1760 | 13.2289 | 13.2694 | 13.1677 | 76,372 | 1,009,667,346.60 |
| Dec 2018 | ZAUS | Future | 66,833 | 13.3246 | 13.3783 | 13.4000 | 13.3290 | 3,669 | 49,114,722.80 |
| Mar 2019 | ZAUS | Future | 7,820 | 13.4821 | 13.5353 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | Future | 15,910 | 13.6290 | 13.6819 | 0.0000 | 0.0000 | 0 | 0.00 |
| | | | <u>542,367</u> | | | | | <u>80,041.00</u> | <u>1,058,782,069.40</u> |
| | | | | | | | | | <u>179 413 856.00</u> |
| | | | | | | | | | <u>2 125 595 626 893.20</u> |
| Option | | | | | | | | | |
| Sep 2018 | ZAUS | 11.48 Put | 5,200 | 2.4324 | 2.3862 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 11.50 Put | 45,000 | 2.5417 | 2.4837 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 11.60 Put | 2,000 | 3.1729 | 3.0418 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 11.75 Put | 93,314 | 4.4543 | 4.1534 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 11.85 Put | 48,200 | 5.6107 | 5.1396 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 11.90 Put | 3,000 | 6.3082 | 5.7270 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.00 Put | 13,300 | 9.4173 | 7.8923 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.25 Call | 500 | 949.4858 | 999.6886 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.25 Put | 40,000 | 23.4858 | 20.7886 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.30 Put | 100 | 27.7882 | 24.8028 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.38 Put | 60,000 | 36.0181 | 32.5290 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.50 Call | 4,600 | 728.0008 | 776.5470 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.50 Put | 44,000 | 52.0008 | 47.6470 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.58 Put | 8,000 | 66.0738 | 60.4757 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.61 Put | 13,231 | 72.4327 | 66.0744 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.65 Put | 1,550 | 81.5832 | 74.5358 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.77 Call | 5,200 | 519.9136 | 563.4460 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.80 Call | 50 | 499.1958 | 542.0905 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.80 Put | 500 | 123.1958 | 113.1905 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.85 Put | 750 | 139.7725 | 128.6585 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.00 Call | 7,500 | 374.0420 | 412.1953 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.00 Put | 72,000 | 198.0420 | 183.2953 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.10 Put | 2,500 | 244.1229 | 226.7489 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.20 Call | 4,000 | 271.9519 | 304.7457 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.20 Put | 4,000 | 295.9519 | 275.8457 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.22 Put | 10,000 | 307.6177 | 286.3339 | 0.0000 | 0.0000 | 32,000 | 0.00 |
| Sep 2018 | ZAUS | 13.25 Call | 1,250 | 251.5282 | 281.3768 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.25 Put | 74,064 | 325.5282 | 302.4768 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.30 Call | 500 | 232.4481 | 260.8378 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.50 Call | 2,000 | 168.4001 | 191.2494 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.60 Call | 26,000 | 142.8904 | 163.2114 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.60 Put | 4,000 | 566.8904 | 534.3114 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.65 Call | 1,464 | 131.5516 | 150.6783 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 14.00 Call | 60,000 | 72.9685 | 85.2626 | 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 2018 | ZAUS | 14.00 Put | 1,500 | 896.9685 | 856.3626 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 14.20 Call | 500 | 51.8069 | 61.1112 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 14.70 Call | 63,000 | 20.7138 | 25.8824 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 15.00 Call | 4,000 | 11.0690 | 14.1335 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 15.97 Call | 5,300 | 1.7075 | 2.0828 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 16.04 Call | 1,550 | 1.6820 | 2.0426 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 16.14 Call | 750 | 1.6507 | 1.9921 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 16.29 Call | 73,314 | 1.6139 | 1.9304 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 11.64 Put | 2,764 | 30.2769 | 30.0969 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 11.75 Put | 230,784 | 35.9315 | 35.9771 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 11.90 Put | 11,300 | 45.2861 | 45.7202 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.00 Put | 174,530 | 54.8166 | 53.5110 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.02 Put | 5,500 | 57.3358 | 55.2092 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.10 Put | 8,580 | 68.3099 | 64.4670 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.20 Put | 7,300 | 84.1731 | 79.4674 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.25 Put | 3,300 | 93.0587 | 87.8783 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.38 Put | 39,589 | 119.3611 | 112.8116 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.50 Call | 230,784 | 972.6195 | 1018.3314 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.50 Put | 26,500 | 148.0195 | 140.0314 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.63 Put | 39,589 | 184.1333 | 174.4103 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.68 Put | 10,000 | 200.0377 | 189.0489 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.75 Put | 1,000 | 224.2801 | 210.9083 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.00 Call | 7,000 | 649.7967 | 686.9582 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.00 Put | 175,030 | 325.1967 | 308.6582 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.10 Put | 11,300 | 371.8102 | 353.9909 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.20 Call | 7,100 | 546.5261 | 581.1205 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.22 Put | 5,500 | 432.3597 | 412.9996 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.25 Call | 10,000 | 522.8697 | 556.8246 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.25 Put | 27,800 | 448.2697 | 428.5246 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.45 Put | 4,080 | 564.9006 | 540.4662 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.50 Call | 230,784 | 420.8860 | 449.3816 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.50 Put | 26,300 | 596.2860 | 571.0816 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.70 Put | 7,300 | 729.0992 | 700.9343 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.71 Put | 30 | 736.0277 | 707.7232 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.78 Call | 100 | 329.8610 | 354.2717 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.78 Put | 100 | 785.2610 | 755.9717 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.79 Put | 10,000 | 792.3974 | 762.9665 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.80 Call | 3,264 | 324.1555 | 348.2898 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.95 Call | 39,589 | 284.4010 | 306.5361 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.00 Call | 16,010 | 272.3906 | 293.7800 | 0.0000 | 0.0000 | 120 | 0.00 |
| Dec 2018 | ZAUS | 14.13 Call | 20,000 | 243.5823 | 263.1198 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.33 Call | 100 | 205.3876 | 222.3408 | 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 | 14.38 Call | 30 | 196.8815 | 213.2358 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.44 Call | 11,300 | 187.1760 | 202.8329 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.60 Call | 18,900 | 163.7663 | 177.6966 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.61 Call | 1,500 | 162.4143 | 176.2426 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.62 Call | 5,500 | 161.0771 | 174.8042 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.70 Call | 20,000 | 150.3512 | 163.7346 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.75 Call | 127,100 | 143.8783 | 157.2099 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.84 Call | 1,000 | 132.9526 | 145.4220 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.00 Call | 20,100 | 115.6443 | 126.7019 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.01 Call | 10,000 | 114.6457 | 125.6209 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.09 Call | 500 | 106.9802 | 117.3102 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.15 Call | 27,030 | 101.5952 | 111.4652 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.48 Call | 29,600 | 76.7877 | 84.4574 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.70 Call | 11,380 | 63.9954 | 70.4724 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 10.33 Put | 1,000 | 6.9122 | 6.3077 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 11.74 Put | 1,000 | 70.2815 | 65.5772 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 12.06 Put | 4,145 | 116.5966 | 110.8996 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 12.47 Put | 721 | 210.8681 | 201.4523 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.45 Call | 4,145 | 666.0271 | 697.4429 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.46 Put | 20,000 | 639.6856 | 617.7670 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.75 Put | 17,981 | 819.2715 | 793.3257 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.86 Put | 721 | 892.4963 | 865.2794 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.30 Call | 500 | 391.7728 | 412.8056 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.48 Call | 1,000 | 351.7651 | 371.0791 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.96 Call | 17,981 | 264.4945 | 280.5995 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.45 Call | 20,000 | 195.2451 | 207.8594 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.54 Call | 721 | 184.8341 | 196.8901 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 10.69 Put | 1,000 | 10.9063 | 10.2580 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 12.28 Put | 1,000 | 212.1284 | 201.5025 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 12.75 Put | 1,000 | 357.7491 | 344.9429 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 12.98 Put | 911 | 447.8062 | 431.8195 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.24 Put | 30,000 | 572.1027 | 552.7826 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.83 Put | 25,000 | 911.0751 | 885.7340 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 13.88 Put | 12,450 | 943.1807 | 917.3546 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.58 Call | 1,000 | 487.6887 | 508.2886 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 14.82 Call | 30,000 | 434.7843 | 453.5393 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.55 Call | 25,000 | 304.4880 | 319.0811 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.62 Call | 12,450 | 294.3391 | 308.5208 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.80 Call | 1,000 | 269.9785 | 283.1633 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | 15.92 Call | 911 | 255.0391 | 267.6006 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | ZAUS | 10.75 Put | 1,000 | 18.2878 | 19.3442 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | ZAUS | 12.50 Put | 1,000 | 323.2286 | 312.0422 | 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 | 15.87 Call | 1,000 | 394.4166 | 410.4864 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2019 | ZAUS | 20.00 Call | 2,000 | 135.0721 | 142.8227 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | <u>2,721,171</u> | | | | | <u>32,120.00</u> | <u>0.00</u> | <u>51 273 152.00</u> |
| | | Total | 3,263,538 | | | | | 112,161.00 | 1,058,782,069.40 | 230 687 008.00 |
| | | | | | | | | | | 2 125 595 626 893.20 |

| | | | | | | | | | | | |
|--------------------|------------------|--|--|--|--|--|--|-------------------|-------------------------|--------------------|-----------------------------|
| Grand Total | 4,674,125 | | | | | | | 142,421.00 | 1 200 970 590.40 | 315,566,085 | 2,964,182,428,535.52 |
|--------------------|------------------|--|--|--|--|--|--|-------------------|-------------------------|--------------------|-----------------------------|
