



JOHANNESBURG STOCK EXCHANGE

Currency Derivatives

CURRENCY FUTURES DAILY TRADE INFORMATION FOR 24-August-2018

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | | CUMULATIVE VOLUME | |
|---------------|----------|--------------|----------------|----------|----------|--------|--------|--------------|----------------|---------------------|--------------------------|
| Future | | | | | | | | | | | |
| Oct 2018 | CC01 | Future | 25,000 | 549.2394 | 540.2252 | 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 | | | | | | | | | | | |
| Sep 2018 | DAEU | Future | 34 | 16.6002 | 16.5712 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>34</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>801 260.00</u> | <u>11 964 751 196.80</u> |
| Option | | | | | | | | | | | |
| Aug 2019 | DAEU | 16.03 Put | 31,200 | 382.4863 | 406.7884 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAEU | 16.24 Put | 31,200 | 451.0122 | 477.9357 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAEU | 19.65 Call | 62,400 | 771.1134 | 779.4240 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>124,800</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>1 143 987.00</u> | <u>0.00</u> |
| | | Total | 124,834 | | | | | 0.00 | 0.00 | 1 945 247.00 | 11 964 751 196.80 |
| Future | | | | | | | | | | | |
| Sep 2018 | DAGB | Future | 14 | 18.4264 | 18.4351 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2018 | DAGB | Future | 3 | 18.4821 | 18.4909 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>17</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>53 772.00</u> | <u>882 254 516.30</u> |
| | | Total | 17 | | | | | 0.00 | 0.00 | 261 085.00 | 882 254 516.30 |
| Future | | | | | | | | | | | |
| Aug 2018 | DAUS | Future | 0 | 14.2715 | 14.2927 | 0.0000 | 0.0000 | 20,000 | 285,430,000.00 | | |
| Aug 2018 | DAUS | Future | 3,299 | 14.2600 | 14.2947 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2018 | DAUS | Future | 197 | 14.2649 | 14.3006 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2018 | DAUS | Future | 300 | 14.2700 | 14.3063 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2018 | DAUS | Future | 2,863 | 14.3133 | 14.3478 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2018 | DAUS | Future | 55 | 14.3209 | 14.3554 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2018 | DAUS | Future | 235 | 14.3492 | 14.3839 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2018 | DAUS | Future | 70 | 14.3643 | 14.3990 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2018 | DAUS | Future | 225 | 14.3719 | 14.4066 | 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> | | |
|---------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|----------------------|---------------------------|
| Oct 2018 | DAUS | Future | 3,815 | 14.3757 | 14.4104 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2018 | DAUS | Future | 55 | 14.3776 | 14.4123 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2018 | DAUS | Future | 70 | 14.4004 | 14.4351 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2018 | DAUS | Future | 420 | 14.4061 | 14.4408 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2018 | DAUS | Future | 461 | 14.4308 | 14.4655 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2018 | DAUS | Future | 7,004 | 14.4327 | 14.4674 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | DAUS | Future | 2,387 | 14.4914 | 14.5266 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2019 | DAUS | Future | 55 | 14.4952 | 14.5305 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2019 | DAUS | Future | 55 | 14.5482 | 14.5839 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2019 | DAUS | Future | 1,225 | 14.5501 | 14.5858 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Feb 2019 | DAUS | Future | 70 | 14.5747 | 14.6107 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Feb 2019 | DAUS | Future | 4,725 | 14.6031 | 14.6393 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | DAUS | Future | 4,414 | 14.6547 | 14.6913 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAUS | Future | 55 | 14.6661 | 14.7029 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2019 | DAUS | Future | 1,280 | 14.7196 | 14.7568 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| May 2019 | DAUS | Future | 55 | 14.7790 | 14.8165 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | Future | 55 | 14.8399 | 14.8770 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | Future | 55 | 14.9008 | 14.9375 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | Future | 55 | 14.9644 | 15.0012 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | Future | 55 | 15.0283 | 15.0661 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | Future | 55 | 15.0901 | 15.1287 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | Future | 55 | 15.1582 | 15.1978 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2020 | DAUS | Future | 55 | 15.2242 | 15.2648 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jan 2020 | DAUS | Future | 55 | 15.2859 | 15.3275 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2020 | DAUS | Future | 55 | 15.3519 | 15.3944 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2020 | DAUS | Future | 55 | 15.4179 | 15.4614 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Apr 2020 | DAUS | Future | 55 | 15.4754 | 15.5197 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2020 | DAUS | Future | 1,055 | 15.5478 | 15.5932 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2020 | DAUS | Future | 84,000 | 15.6670 | 15.7142 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>119,050</u> | | | | | <u>20,000.00</u> | <u>285,430,000.00</u> | <u>10 562 029.00</u> | <u>128 913 842 808.60</u> |
| Option | | | | | | | | | | | |
| Aug 2018 | DAUS | 14.57 Call | 2,500 | 46.3746 | 82.3876 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 14.59 Call | 2,500 | 42.9098 | 77.8483 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 14.74 Call | 2,500 | 23.5564 | 50.5106 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 14.74 Put | 7,500 | 505.1564 | 497.7106 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 13.00 Put | 500 | 0.7148 | 2.0246 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 13.65 Call | 500 | 626.0455 | 661.0782 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 13.80 Put | 1,000 | 30.5717 | 33.1170 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 14.25 Put | 250 | 153.6036 | 165.4080 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 14.42 Call | 250 | 100.2903 | 137.9974 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 16.05 Call | 500 | 0.8622 | 2.1825 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2018 | DAUS | 16.57 Call | 500 | 0.2388 | 0.7925 | 0.0000 | 0.0000 | 0 | 0.00 | | |

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|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Sep 2018 | DAUS | 13.43 Put | 10,000 | 10.6105 | 11.7323 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.44 Put | 15,000 | 10.8377 | 11.9920 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 12.90 Put | 100 | 3.6991 | 4.8350 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.09 Put | 600 | 5.2235 | 6.9958 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.32 Call | 600 | 960.2884 | 999.5015 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.45 Call | 100 | 833.0354 | 873.2836 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.80 Call | 100 | 519.6385 | 561.3555 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.90 Call | 600 | 442.9733 | 485.7738 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.30 Put | 747 | 16.4231 | 20.6565 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.00 Put | 500 | 16.1105 | 15.6825 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.78 Call | 500 | 656.5349 | 699.2967 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 13.80 Put | 1,000 | 129.2473 | 137.5696 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 14.25 Put | 250 | 315.8627 | 322.7157 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 14.54 Call | 250 | 266.3164 | 301.7369 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 16.25 Call | 500 | 30.3863 | 40.3030 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | DAUS | 16.80 Call | 500 | 14.1828 | 20.3588 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 13.20 Put | 1,630 | 52.7469 | 61.8357 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 14.00 Call | 1,630 | 629.6955 | 674.8255 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 13.00 Put | 500 | 41.4404 | 48.8600 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 13.80 Put | 1,000 | 214.8366 | 226.8457 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 13.93 Call | 500 | 711.2731 | 757.7613 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 14.25 Put | 250 | 417.1990 | 427.0394 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 14.67 Call | 250 | 379.0349 | 418.0022 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 16.47 Call | 500 | 85.9227 | 100.9468 | 0.0000 | 0.0000 | 0 | 0.00 |
| Oct 2018 | DAUS | 17.02 Call | 500 | 55.9935 | 66.8236 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 11.90 Put | 1,880 | 10.5010 | 12.3717 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 13.86 Put | 1,880 | 248.2762 | 260.5921 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 16.81 Call | 1,880 | 74.8507 | 88.2381 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 10.83 Put | 51,000 | 3.2990 | 3.8600 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 11.67 Put | 51,000 | 10.2109 | 10.7106 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 13.22 Call | 51,000 | 1279.7312 | 1325.1973 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.72 Call | 5,000 | 429.8151 | 470.4830 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.74 Call | 5,000 | 423.4380 | 463.8338 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.89 Call | 5,000 | 378.6447 | 416.9537 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.89 Put | 15,000 | 862.5447 | 866.1537 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.84 Call | 10,000 | 402.7247 | 442.1371 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.62 Call | 20,400 | 490.4703 | 533.5043 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 13.00 Put | 500 | 74.1253 | 83.0164 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 13.80 Put | 1,000 | 275.8085 | 288.4435 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.08 Call | 500 | 751.3817 | 797.9429 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.25 Put | 250 | 485.2772 | 496.1451 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 14.82 Call | 250 | 450.5949 | 489.9942 | 0.0000 | 0.0000 | 0 | 0.00 |

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|-------------|-----------------|------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|
| Nov 2018 | DAUS | 16.70 Call | 500 | 133.3615 | 151.5620 | 0.0000 | 0.0000 | 0 | 0.00 |
| Nov 2018 | DAUS | 17.31 Call | 500 | 92.9333 | 106.6847 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.65 Put | 20,000 | 239.3690 | 251.4556 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.86 Put | 7,500 | 317.5711 | 328.3861 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 15.08 Call | 7,500 | 412.4223 | 448.2661 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 15.69 Call | 20,000 | 283.2587 | 311.5506 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.20 Put | 1,000 | 131.8029 | 141.5765 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.30 Put | 1,000 | 154.5088 | 164.7769 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.66 Call | 1,000 | 575.2284 | 615.5476 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.75 Call | 1,000 | 544.0552 | 583.4242 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.00 Put | 500 | 103.8614 | 113.5234 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 13.80 Put | 1,000 | 320.4764 | 330.6844 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.22 Call | 500 | 788.5681 | 832.2170 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.25 Put | 250 | 533.0940 | 541.3566 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 14.96 Put | 250 | 975.6717 | 977.2550 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 16.93 Call | 500 | 169.9744 | 187.9698 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | DAUS | 17.58 Call | 500 | 125.9294 | 138.9977 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 12.66 Put | 263 | 77.0015 | 81.3220 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 13.00 Put | 500 | 132.8020 | 140.3031 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 14.25 Put | 250 | 576.7183 | 582.6765 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 14.38 Call | 500 | 818.1672 | 859.1021 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jan 2019 | DAUS | 15.13 Call | 250 | 550.9191 | 585.3819 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 13.00 Put | 500 | 155.8287 | 161.8224 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 14.25 Put | 250 | 610.3079 | 614.4963 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 14.52 Call | 500 | 845.2185 | 884.2050 | 0.0000 | 0.0000 | 0 | 0.00 |
| Feb 2019 | DAUS | 15.27 Call | 250 | 589.6498 | 622.8454 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 13.00 Put | 500 | 176.8276 | 178.2692 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.25 Put | 250 | 640.4345 | 641.3990 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 14.67 Call | 500 | 870.9591 | 906.7217 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | DAUS | 15.43 Call | 250 | 624.2122 | 654.7270 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 13.00 Put | 3,000 | 193.7238 | 193.2319 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 13.49 Call | 2,500 | 1569.7400 | 1608.1629 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 14.25 Put | 250 | 667.4112 | 666.2880 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 14.84 Call | 500 | 894.2871 | 927.4605 | 0.0000 | 0.0000 | 0 | 0.00 |
| Apr 2019 | DAUS | 15.61 Call | 250 | 657.0580 | 685.1847 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 13.00 Put | 500 | 210.3817 | 207.5733 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 14.25 Put | 250 | 693.0115 | 689.8537 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 15.01 Call | 500 | 916.2091 | 947.2483 | 0.0000 | 0.0000 | 0 | 0.00 |
| May 2019 | DAUS | 15.79 Call | 250 | 686.7877 | 713.4642 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 13.00 Put | 500 | 222.0611 | 216.7278 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 14.25 Put | 250 | 713.2561 | 708.2455 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | DAUS | 15.17 Call | 500 | 934.0579 | 962.7632 | 0.0000 | 0.0000 | 0 | 0.00 |

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|---------------|----------|------------|----------------|-----------|-----------|--------|--------|------------------|-----------------------|----------------------|-------------------------|
| Jun 2019 | DAUS | 15.96 Call | 250 | 711.2633 | 736.1495 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | 13.45 Put | 39,250 | 375.6927 | 372.9149 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | 16.44 Call | 39,250 | 618.5727 | 641.5493 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | 13.00 Put | 500 | 236.4280 | 222.4470 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | 14.25 Put | 250 | 734.8504 | 727.5350 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | 15.34 Call | 500 | 960.4334 | 986.6969 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jul 2019 | DAUS | 16.14 Call | 250 | 743.0737 | 766.2836 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 14.48 Put | 3,950 | 869.1454 | 860.3642 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 16.35 Call | 3,950 | 724.3354 | 746.6023 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 13.00 Put | 500 | 244.7620 | 227.8780 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 14.25 Put | 250 | 753.7049 | 745.6201 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 15.52 Call | 500 | 977.3715 | 1003.0170 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Aug 2019 | DAUS | 16.33 Call | 250 | 766.6150 | 789.2565 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 13.00 Put | 500 | 249.2716 | 246.8667 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 14.25 Put | 250 | 772.1072 | 766.4671 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 15.68 Call | 500 | 1009.5319 | 1035.7655 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | DAUS | 16.50 Call | 250 | 802.4866 | 825.3570 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 13.00 Put | 500 | 262.7037 | 262.8646 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 14.25 Put | 250 | 792.5585 | 787.2410 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 15.87 Call | 500 | 1033.5207 | 1060.0097 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Oct 2019 | DAUS | 16.70 Call | 250 | 831.7059 | 854.6958 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 13.00 Put | 500 | 274.5532 | 279.3293 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 14.25 Put | 250 | 808.8016 | 803.9855 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 16.03 Call | 500 | 1060.5496 | 1087.3811 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Nov 2019 | DAUS | 16.87 Call | 250 | 861.3463 | 884.4821 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 13.00 Put | 500 | 292.0049 | 296.6121 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 14.25 Put | 250 | 824.7453 | 820.7878 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 16.21 Call | 500 | 1088.2155 | 1115.2898 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | DAUS | 17.05 Call | 250 | 893.9838 | 917.7140 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>451,310</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>19 972 227.00</u> | <u>0.00</u> |
| Total | | | 570,360 | | | | | 20,000.00 | 285,430,000.00 | 30 534 256.00 | 128 913 842 808.60 |
| Option | | | | | | | | | | | |
| Sep 2018 | DAYJ | 8.26 Call | 25,000 | 86.1468 | 86.8182 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>25,000</u> | | | | | <u>0.00</u> | <u>0.00</u> | <u>50 000.00</u> | <u>0.00</u> |
| Total | | | 25,000 | | | | | 0.00 | 0.00 | 50 000.00 | 0.00 |
| Future | | | | | | | | | | | |
| Sep 2018 | EUUS | Future | 2,899 | 1.1640 | 1.1589 | 1.1649 | 1.1649 | 20 | 232,980.00 | | |
| | | | <u>2,899</u> | | | | | <u>20.00</u> | <u>232,980.00</u> | <u>732 508.00</u> | <u>8 305 965 627.00</u> |
| Total | | | 2,899 | | | | | 20.00 | 232,980.00 | 732 508.00 | 8 305 965 627.00 |

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | CUMULATIVE VOLUME | |
|---------------|----------|--------------|----------------|-----------|-----------|---------|---------|---------------|---------------------|--------------------|
| Future | | | | | | | | | | |
| Sep 2018 | GBUS | Future | 25 | 1.2868 | 1.2843 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | 25 | | | | | 0.00 | 0.00 | 167 364.00 |
| | | Total | 25 | | | | | 0.00 | 0.00 | 167 364.00 |
| Future | | | | | | | | | | |
| Sep 2018 | ZAAD | Future | 11,333 | 10.4813 | 10.4227 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2018 | ZAAD | Future | 11,820 | 10.6084 | 10.5482 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Mar 2019 | ZAAD | Future | 510 | 10.7481 | 10.6884 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Jun 2019 | ZAAD | Future | 4,929 | 10.8846 | 10.8241 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | 28,592 | | | | | 0.00 | 0.00 | 3 689 269.00 |
| | | Total | 28,592 | | | | | 0.00 | 0.00 | 3 721 646.00 |
| Future | | | | | | | | | | |
| Dec 2018 | ZACA | Future | 590 | 11.1105 | 11.1334 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | 590 | | | | | 0.00 | 0.00 | 137 633.00 |
| | | Total | 590 | | | | | 0.00 | 0.00 | 137 633.00 |
| Future | | | | | | | | | | |
| Sep 2018 | ZADK | Future | 245 | 2.2398 | 2.2354 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Dec 2018 | ZADK | Future | 235 | 2.2839 | 2.2794 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | 480 | | | | | 0.00 | 0.00 | 12 085.00 |
| | | Total | 480 | | | | | 0.00 | 0.00 | 12 085.00 |
| Future | | | | | | | | | | |
| Sep 2018 | ZAEU | Future | 97,873 | 16.6349 | 16.6041 | 16.5973 | 16.5870 | 323 | 5,359,915.60 | |
| Dec 2018 | ZAEU | Future | 37,775 | 16.9466 | 16.9140 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Mar 2019 | ZAEU | Future | 4,716 | 17.2964 | 17.2643 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Jun 2019 | ZAEU | Future | 5,256 | 17.6315 | 17.5988 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | 145,620 | | | | | 323.00 | 5,359,915.60 | 15 231 604.00 |
| | | | | | | | | | | 217 873 040 706.40 |
| Option | | | | | | | | | | |
| Sep 2018 | ZAEU | 13.50 Put | 29,734 | 0.1787 | 0.3782 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Sep 2018 | ZAEU | 14.25 Put | 57,090 | 1.2809 | 1.9475 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Sep 2018 | ZAEU | 15.85 Put | 86,824 | 45.5031 | 63.8523 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Sep 2018 | ZAEU | 16.76 Call | 29,734 | 262.8484 | 275.4115 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Sep 2018 | ZAEU | 19.56 Call | 86,824 | 3.7035 | 4.7382 | 0.0000 | 0.0000 | 0 | 0.00 | |
| Mar 2019 | ZAEU | 16.00 Call | 650 | 1622.6248 | 1618.4108 | 0.0000 | 0.0000 | 0 | 0.00 | |
| | | | 290,856 | | | | | 0.00 | 0.00 | 8 025 012.00 |
| | | Total | 436,476 | | | | | 323.00 | 5,359,915.60 | 23 256 616.00 |
| | | | | | | | | | | 217 873 040 706.40 |
| Future | | | | | | | | | | |

| DATE | CONTRACT | | OPEN INT | MTM | PREV MTM | HIGH | LOW | DAILY VOLUME | CUMULATIVE VOLUME | | |
|---------------|----------|--------------|----------------|----------|----------|---------|---------|---------------|----------------------|----------------------|---------------------------|
| Sep 2018 | ZAFR | Future | 1,975 | 14.5649 | 14.5769 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2018 | ZAFR | Future | 770 | 14.8519 | 14.8634 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAFR | Future | 150 | 15.4851 | 15.4979 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>2,895</u> | | | | | <i>0.00</i> | <i>0.00</i> | <i>616 745.00</i> | <i>6 609 022 930.80</i> |
| | | Total | 2,895 | | | | | 0.00 | 0.00 | 616 745.00 | 6 609 022 930.80 |
| Future | | | | | | | | | | | |
| Sep 2018 | ZAGB | Future | 198,020 | 18.3908 | 18.4009 | 0.0000 | 0.0000 | 270 | 4,990,602.60 | | |
| Dec 2018 | ZAGB | Future | 205,078 | 18.6786 | 18.6872 | 18.7250 | 18.6584 | 105 | 1,959,465.00 | | |
| Mar 2019 | ZAGB | Future | 4,932 | 18.9978 | 19.0083 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAGB | Future | 6,156 | 19.3018 | 19.3126 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAGB | Future | 4,645 | 19.6397 | 19.6495 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>418,831</u> | | | | | <i>375.00</i> | <i>6,950,067.60</i> | <i>12 176 100.00</i> | <i>205 452 489 896.60</i> |
| | | Total | 418,831 | | | | | 375.00 | 6,950,067.60 | 13 951 213.00 | 205 452 489 896.60 |
| Option | | | | | | | | | | | |
| Mar 2019 | ZAGB | 18.00 Put | 500 | 541.1907 | 562.0272 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Mar 2019 | ZAGB | 21.44 Call | 500 | 383.4608 | 406.9847 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>1,000</u> | | | | | <i>0.00</i> | <i>0.00</i> | <i>1 775 113.00</i> | <i>0.00</i> |
| | | Total | 419,831 | | | | | 375.00 | 6,950,067.60 | 13 951 213.00 | 205 452 489 896.60 |
| Future | | | | | | | | | | | |
| Sep 2018 | ZAJY | Future | 6,873 | 0.1287 | 0.1290 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>6,873</u> | | | | | <i>0.00</i> | <i>0.00</i> | <i>1 001 040.00</i> | <i>11 183 195 529.30</i> |
| | | Total | 6,873 | | | | | 0.00 | 0.00 | 1 001 040.00 | 11 183 195 529.30 |
| Future | | | | | | | | | | | |
| Sep 2018 | ZAKS | Future | 562 | 0.1413 | 0.1419 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAKS | Future | 1,628 | 0.1401 | 0.1412 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>2,190</u> | | | | | <i>0.00</i> | <i>0.00</i> | <i>36 428.00</i> | <i>491 517 260.00</i> |
| | | Total | 2,190 | | | | | 0.00 | 0.00 | 36 428.00 | 491 517 260.00 |
| Future | | | | | | | | | | | |
| Sep 2018 | ZATR | Future | 5,270 | 2.3379 | 2.3191 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>5,270</u> | | | | | <i>0.00</i> | <i>0.00</i> | <i>341 969.00</i> | <i>1 134 767 971.00</i> |
| | | Total | 5,270 | | | | | 0.00 | 0.00 | 341 969.00 | 1 134 767 971.00 |
| Future | | | | | | | | | | | |
| Sep 2018 | ZAUM | Future | 338 | 14.2917 | 14.3271 | 14.2591 | 14.2591 | 30 | 42,867,050.00 | | |
| Dec 2018 | ZAUM | Future | 75 | 14.4592 | 14.4942 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>413</u> | | | | | <i>30.00</i> | <i>42,867,050.00</i> | <i>152 431.00</i> | <i>175 964 001 670.00</i> |
| | | Total | 413 | | | | | 30.00 | 42,867,050.00 | 156 954.00 | 175 964 001 670.00 |

| <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 | 497,997 | 14.2917 | 14.3271 | 14.3888 | 14.2249 | 54,772 | 786,745,074.00 |
| Dec 2018 | ZAUS | Future | 273,559 | 14.4592 | 14.4942 | 14.4987 | 14.4000 | 2,249 | 32,504,003.80 |
| Mar 2019 | ZAUS | Future | 8,595 | 14.6375 | 14.6740 | 0.0000 | 0.0000 | 0 | 0.00 |
| Jun 2019 | ZAUS | Future | 20,510 | 14.8065 | 14.8438 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2019 | ZAUS | Future | 10,138 | 14.9943 | 15.0315 | 0.0000 | 0.0000 | 0 | 0.00 |
| | | | <u>810,799</u> | | | | | <u>57,021.00</u> | <u>819,249,077.80</u> |
| | | | | | | | | | <u>181 963 910.00</u> |
| | | | | | | | | | <u>2 161 816 528 871.80</u> |
| Option | | | | | | | | | |
| Sep 2018 | ZAUS | 11.48 Put | 5,200 | 0.1470 | 0.2170 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 11.50 Put | 45,000 | 0.1564 | 0.2249 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 11.60 Put | 2,000 | 0.2128 | 0.2952 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 11.75 Put | 93,314 | 0.3361 | 0.4428 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 11.85 Put | 48,200 | 0.4544 | 0.5795 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 11.90 Put | 3,000 | 0.5279 | 0.6626 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.00 Put | 13,300 | 0.7112 | 0.8655 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.25 Call | 500 | 2043.1817 | 2078.7787 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.25 Put | 40,000 | 1.4817 | 1.6787 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.30 Put | 100 | 1.7126 | 1.9147 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.38 Put | 60,000 | 2.1560 | 2.3615 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.50 Call | 4,600 | 1794.7349 | 1830.3294 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.50 Put | 44,000 | 3.0349 | 3.2294 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.58 Put | 8,000 | 3.8030 | 3.9740 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.61 Put | 13,231 | 4.1366 | 4.2944 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.65 Put | 1,550 | 4.6254 | 4.7613 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.77 Call | 5,200 | 1528.1463 | 1563.5781 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.80 Call | 50 | 1498.6988 | 1534.0938 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.80 Put | 500 | 6.9988 | 6.9938 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 12.85 Put | 750 | 8.0213 | 7.9430 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.00 Call | 7,500 | 1302.9022 | 1338.8996 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.00 Put | 70,000 | 11.2022 | 11.7996 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.10 Put | 2,500 | 14.0200 | 15.3763 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.20 Call | 4,000 | 1109.2684 | 1147.0462 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.20 Put | 4,500 | 17.5684 | 19.9462 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.22 Put | 10,000 | 18.3815 | 20.9996 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.25 Call | 1,250 | 1061.3746 | 1099.7771 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.25 Put | 74,064 | 19.6746 | 22.6771 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.30 Call | 500 | 1013.7389 | 1052.8502 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.50 Call | 500 | 826.4660 | 869.3580 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.60 Call | 26,000 | 735.4366 | 780.7850 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.60 Put | 4,000 | 43.7366 | 53.6850 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.65 Call | 1,464 | 694.2073 | 737.4911 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 13.66 Call | 100 | 686.1024 | 729.4766 | 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 Call | 60,000 | 442.3726 | 486.7080 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 14.00 Put | 22,000 | 150.6726 | 159.6080 | 0.0000 | 0.0000 | 10,000 | 0.00 |
| Sep 2018 | ZAUS | 14.20 Call | 500 | 330.4123 | 372.9910 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 14.50 Call | 500 | 209.6785 | 245.2373 | 0.0000 | 0.0000 | 500 | 0.00 |
| Sep 2018 | ZAUS | 14.70 Call | 63,000 | 154.5127 | 185.0858 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 15.00 Call | 4,000 | 97.7434 | 121.0346 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 15.00 Put | 50 | 806.0434 | 793.9346 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 15.97 Call | 5,300 | 19.6942 | 27.9007 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 16.04 Call | 1,550 | 17.3059 | 24.7074 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 16.14 Call | 750 | 14.3802 | 20.7498 | 0.0000 | 0.0000 | 0 | 0.00 |
| Sep 2018 | ZAUS | 16.29 Call | 73,314 | 10.8837 | 15.9416 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 11.64 Put | 2,764 | 13.0879 | 13.0911 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 11.75 Put | 228,616 | 15.4376 | 15.6984 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 11.90 Put | 11,300 | 19.2725 | 20.0019 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.00 Put | 174,530 | 22.2974 | 23.4267 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.02 Put | 5,500 | 22.9526 | 24.1709 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.10 Put | 8,580 | 25.7545 | 27.3622 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.20 Put | 7,300 | 29.6970 | 31.8731 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.25 Put | 3,300 | 31.8686 | 34.3658 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.38 Put | 39,589 | 38.2149 | 41.6651 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.50 Call | 228,616 | 2004.2743 | 2043.7730 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.50 Put | 26,500 | 45.0743 | 49.5730 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.63 Put | 39,589 | 53.7537 | 59.5856 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.68 Put | 10,000 | 57.4759 | 63.8780 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.75 Put | 1,000 | 63.0805 | 70.3354 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 12.95 Put | 500 | 81.9048 | 91.9599 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.00 Call | 7,000 | 1546.5361 | 1592.3750 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.00 Put | 146,370 | 87.3361 | 98.1750 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.05 Put | 1,500 | 95.6845 | 104.7404 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.10 Put | 11,300 | 104.6330 | 114.0196 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.20 Call | 7,100 | 1383.4969 | 1428.5044 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.22 Put | 5,500 | 128.5228 | 138.6452 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.25 Call | 10,000 | 1344.2446 | 1389.5389 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.25 Put | 17,800 | 135.0446 | 145.3389 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.32 Put | 13,650 | 151.1553 | 161.8155 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.33 Put | 135,000 | 153.5584 | 164.2704 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.45 Call | 500 | 1193.6746 | 1239.9087 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.45 Put | 4,080 | 184.4746 | 195.7087 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.50 Call | 228,616 | 1157.7016 | 1204.1125 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.50 Put | 30,500 | 198.5016 | 209.9125 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.60 Put | 66,000 | 228.6292 | 240.3188 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.70 Put | 7,300 | 261.5707 | 273.4301 | 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 | 13.71 Put | 30 | 265.0198 | 276.8930 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.75 Put | 700 | 279.1108 | 291.0138 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.78 Call | 100 | 969.9996 | 1016.0924 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.79 Put | 10,000 | 294.7634 | 305.5756 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.80 Call | 3,264 | 957.9609 | 1003.4950 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.80 Put | 400 | 298.7609 | 309.2950 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 13.95 Call | 39,589 | 871.5837 | 916.9202 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.00 Call | 20,400 | 844.3142 | 889.5264 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.00 Put | 34,500 | 385.1142 | 395.3264 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.10 Put | 1,867 | 432.8190 | 442.7042 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.12 Put | 4,372 | 442.7118 | 452.5196 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.13 Call | 20,000 | 776.9019 | 821.6695 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.15 Put | 236,970 | 457.7723 | 467.4532 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.16 Put | 36,200 | 462.8493 | 472.4869 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.20 Call | 1,000 | 742.6472 | 787.1019 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.20 Put | 13,650 | 483.4472 | 492.9019 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.24 Put | 24,570 | 504.5000 | 513.7564 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.25 Call | 1,000 | 719.0328 | 763.2373 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.25 Put | 700 | 509.8328 | 519.0373 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.33 Call | 100 | 682.7004 | 726.4535 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.33 Put | 31,047 | 553.5004 | 562.2535 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.35 Call | 500 | 673.8927 | 717.5219 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.35 Put | 4,428 | 564.6927 | 573.3219 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.38 Call | 30 | 660.8785 | 704.3202 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.44 Call | 11,300 | 635.5723 | 678.6150 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.50 Call | 700 | 611.5329 | 653.8171 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.50 Put | 1,000 | 652.3329 | 659.6171 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.60 Call | 84,900 | 573.5889 | 614.8599 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.60 Put | 500 | 714.3889 | 720.6599 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.61 Call | 1,500 | 569.9290 | 611.0952 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.62 Call | 5,500 | 566.2931 | 607.3539 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.67 Call | 5,000 | 548.4727 | 588.9957 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.67 Put | 3,000 | 759.2727 | 764.7957 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.70 Call | 20,000 | 538.0589 | 578.2584 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.75 Call | 127,100 | 521.1624 | 560.8053 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.80 Call | 400 | 504.8231 | 543.8996 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.80 Put | 135,000 | 845.6231 | 849.6996 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 14.84 Call | 1,000 | 492.1400 | 530.7628 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.00 Call | 10,100 | 444.7297 | 481.4765 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.01 Call | 10,000 | 441.9348 | 478.5631 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.09 Call | 500 | 420.2582 | 455.9336 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.10 Call | 500 | 417.6314 | 453.1873 | 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 | 15.15 Call | 27,030 | 404.7700 | 439.7243 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.20 Put | 50 | 1133.2818 | 1132.5020 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.37 Call | 4,372 | 353.7712 | 385.8136 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.46 Call | 1,867 | 335.0719 | 366.0432 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.48 Call | 29,600 | 331.0749 | 361.8109 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.50 Call | 4,500 | 327.1337 | 357.6352 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.51 Call | 24,570 | 325.1838 | 355.5669 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.59 Call | 31,047 | 310.0721 | 339.5210 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.61 Call | 4,428 | 306.4246 | 335.6435 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.70 Call | 11,380 | 290.6318 | 318.8238 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.73 Call | 135,000 | 285.5860 | 313.4403 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.85 Call | 20,300 | 266.4364 | 292.9626 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 15.91 Call | 121,970 | 257.3219 | 283.3280 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 16.00 Call | 50 | 243.4796 | 269.0100 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 16.14 Call | 10,000 | 223.5882 | 247.6922 | 0.0000 | 0.0000 | 0 | 0.00 |
| Dec 2018 | ZAUS | 16.56 Call | 13,650 | 174.2400 | 194.4131 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 10.33 Put | 1,000 | 8.2937 | 8.5711 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 11.74 Put | 1,000 | 20.3942 | 19.7633 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 12.47 Put | 721 | 79.0487 | 79.9094 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 12.51 Put | 720 | 84.1984 | 85.2241 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 12.90 Put | 16,000 | 148.1061 | 151.2175 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.00 Put | 14,028 | 168.8637 | 172.6380 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.46 Put | 20,000 | 292.4610 | 297.6940 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.75 Put | 17,981 | 395.1853 | 400.0382 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.86 Put | 721 | 439.0946 | 443.6971 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 13.90 Put | 720 | 455.7384 | 460.2330 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.00 Put | 16,000 | 502.1868 | 506.3167 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.28 Put | 7,028 | 644.5557 | 647.4069 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.30 Call | 500 | 992.8940 | 1032.1423 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.44 Put | 7,000 | 733.6595 | 735.6484 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.48 Call | 1,000 | 914.2769 | 952.5326 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.53 Put | 108 | 786.1261 | 787.5893 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.82 Put | 4,145 | 965.0664 | 964.4830 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 14.96 Call | 17,981 | 734.1431 | 768.9381 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.17 Call | 720 | 667.6402 | 700.7094 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.45 Call | 20,000 | 589.5333 | 620.2911 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.46 Call | 108 | 586.9738 | 617.6444 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.54 Call | 721 | 566.9505 | 596.9765 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 15.89 Call | 4,145 | 488.5577 | 515.8080 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 16.60 Call | 50 | 362.0242 | 384.5740 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.08 Call | 7,028 | 297.7292 | 317.5842 | 0.0000 | 0.0000 | 0 | 0.00 |
| Mar 2019 | ZAUS | 17.09 Call | 7,000 | 296.5492 | 316.3530 | 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 | 17.50 Call | 16,000 | 252.8996 | 270.6522 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 10.69 Put | 1,000 | 20.6806 | 18.2207 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 12.28 Put | 1,000 | 70.2682 | 60.5619 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 12.75 Put | 1,000 | 154.4606 | 144.8392 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 12.98 Put | 911 | 212.5944 | 204.5522 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 13.24 Put | 30,000 | 292.5885 | 287.5083 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 13.83 Put | 25,000 | 505.4079 | 503.3530 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 13.88 Put | 6,250 | 526.3642 | 524.2287 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 13.98 Call | 1,000 | 1396.2093 | 1431.2136 | 0.0000 | 0.0000 | 500 | 0.00 | | |
| Jun 2019 | ZAUS | 14.42 Call | 30 | 1183.2585 | 1215.0625 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 14.58 Call | 1,000 | 1115.7397 | 1146.9442 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 14.82 Call | 30,000 | 1022.4596 | 1053.0199 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 15.55 Call | 25,000 | 782.7848 | 810.3815 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 15.62 Call | 6,250 | 763.7102 | 790.8268 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 15.80 Call | 1,000 | 717.2554 | 743.4576 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Jun 2019 | ZAUS | 15.92 Call | 911 | 688.2576 | 713.8643 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 10.75 Put | 1,000 | 30.0108 | 24.5069 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 12.50 Put | 1,000 | 111.6267 | 109.2677 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 13.97 Put | 800 | 631.0800 | 625.1284 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.55 Call | 30,000 | 1012.3082 | 1038.4232 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 15.87 Call | 1,000 | 920.3122 | 945.1816 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Sep 2019 | ZAUS | 17.23 Call | 800 | 631.0317 | 651.3963 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 11.89 Put | 1,000 | 71.5613 | 72.3939 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 13.66 Put | 1,000 | 542.8375 | 540.7673 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 17.38 Call | 1,000 | 793.6992 | 815.3408 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| Dec 2019 | ZAUS | 20.00 Call | 2,000 | 511.6919 | 528.5523 | 0.0000 | 0.0000 | 0 | 0.00 | | |
| | | | <u>4,001,345</u> | | | | | <u>11,000.00</u> | <u>0.00</u> | <u>53 715 585.00</u> | <u>0.00</u> |
| | Total | | 4,812,144 | | | | | 68,021.00 | 819,249,077.80 | 235 679 495.00 | 2 161 816 528 871.80 |
| | Grand Total | | 6,463,889 | | | | | 88,769.00 | 1 160 089 091.00 | 321,965,562 | 3,009,139,271,587.52 |