



# JOHANNESBURG STOCK EXCHANGE

## Currency Derivatives

### CURRENCY FUTURES DAILY TRADE INFORMATION FOR 07-September-2017

| DATE          | CONTRACT |              | OPEN INT       | MTM      | PREV MTM | HIGH   | LOW    | DAILY VOLUME | CUMULATIVE VOLUME       |
|---------------|----------|--------------|----------------|----------|----------|--------|--------|--------------|-------------------------|
| <b>Future</b> |          |              |                |          |          |        |        |              |                         |
| Sep 2017      | DAEU     | Future       | 800            | 15.4700  | 15.3957  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Oct 2017      | DAEU     | Future       | 800            | 15.5677  | 15.4931  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Nov 2017      | DAEU     | Future       | 800            | 15.6700  | 15.5948  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Dec 2017      | DAEU     | Future       | 800            | 15.7655  | 15.6910  | 0.0000 | 0.0000 | 0            | 0.00                    |
|               |          |              | <u>3,200</u>   |          |          |        |        | <u>0.00</u>  | <u>0.00</u>             |
|               |          |              |                |          |          |        |        |              | <u>210 962.00</u>       |
|               |          |              |                |          |          |        |        |              | <u>2 985 242 523.30</u> |
| <b>Option</b> |          |              |                |          |          |        |        |              |                         |
| Jan 2018      | DAEU     | 15.80 Put    | 193,000        | 544.4087 | 585.6351 | 0.0000 | 0.0000 | 0            | 0.00                    |
|               |          |              | <u>193,000</u> |          |          |        |        | <u>0.00</u>  | <u>0.00</u>             |
|               |          | <b>Total</b> | <b>196,200</b> |          |          |        |        | <b>0.00</b>  | <b>0.00</b>             |
|               |          |              |                |          |          |        |        |              | <u>506 044.00</u>       |
|               |          |              |                |          |          |        |        |              | <u>0.00</u>             |
|               |          |              |                |          |          |        |        |              | <u>717 006.00</u>       |
|               |          |              |                |          |          |        |        |              | <u>2 985 242 523.30</u> |
| <b>Future</b> |          |              |                |          |          |        |        |              |                         |
| Oct 2017      | DAGB     | Future       | 43             | 16.9865  | 16.9581  | 0.0000 | 0.0000 | 0            | 0.00                    |
|               |          |              | <u>43</u>      |          |          |        |        | <u>0.00</u>  | <u>0.00</u>             |
|               |          | <b>Total</b> | <b>43</b>      |          |          |        |        | <b>0.00</b>  | <b>0.00</b>             |
|               |          |              |                |          |          |        |        |              | <u>53 384.00</u>        |
|               |          |              |                |          |          |        |        |              | <u>875 373 726.50</u>   |
| <b>Future</b> |          |              |                |          |          |        |        |              |                         |
| Sep 2017      | DAUS     | Future       | 75             | 12.8735  | 12.8839  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Sep 2017      | DAUS     | Future       | 1,289          | 12.8755  | 12.8859  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Sep 2017      | DAUS     | Future       | 3,013          | 12.8796  | 12.8900  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Oct 2017      | DAUS     | Future       | 90             | 12.9081  | 12.9186  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Oct 2017      | DAUS     | Future       | 834            | 12.9282  | 12.9385  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Oct 2017      | DAUS     | Future       | 913            | 12.9362  | 12.9465  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Nov 2017      | DAUS     | Future       | 70             | 12.9704  | 12.9803  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Nov 2017      | DAUS     | Future       | 1,990          | 12.9998  | 13.0098  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Nov 2017      | DAUS     | Future       | 2,708          | 13.0038  | 13.0137  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Dec 2017      | DAUS     | Future       | 1,750          | 13.0333  | 13.0432  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Dec 2017      | DAUS     | Future       | 916            | 13.0569  | 13.0667  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Feb 2018      | DAUS     | Future       | 70             | 13.1516  | 13.1609  | 0.0000 | 0.0000 | 0            | 0.00                    |
| May 2018      | DAUS     | Future       | 70             | 13.3212  | 13.3304  | 0.0000 | 0.0000 | 0            | 0.00                    |
| Jul 2018      | DAUS     | Future       | 605            | 13.4219  | 13.4305  | 0.0000 | 0.0000 | 0            | 0.00                    |

| DATE          | CONTRACT |              | OPEN INT       | MTM       | PREV MTM  | HIGH   | LOW    | DAILY VOLUME    | CUMULATIVE VOLUME        |
|---------------|----------|--------------|----------------|-----------|-----------|--------|--------|-----------------|--------------------------|
| Jul 2018      | DAUS     | Future       | 3,170          | 13.4566   | 13.4648   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Aug 2018      | DAUS     | Future       | 70             | 13.5029   | 13.5106   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Nov 2018      | DAUS     | Future       | 70             | 13.6858   | 13.6932   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Feb 2019      | DAUS     | Future       | 70             | 13.8712   | 13.8790   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Jul 2020      | DAUS     | Future       | 84,000         | 15.0636   | 15.0700   | 0.0000 | 0.0000 | 0               | 0.00                     |
|               |          |              | <u>101,773</u> |           |           |        |        | <u>0.00</u>     | <u>0.00</u>              |
|               |          |              |                |           |           |        |        |                 | <u>6 308 643.00</u>      |
|               |          |              |                |           |           |        |        |                 | <u>75 373 778 747.20</u> |
| <b>Option</b> |          |              |                |           |           |        |        |                 |                          |
| Sep 2017      | DAUS     | 12.50 Put    | 20,000         | 29.2342   | 22.8690   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Sep 2017      | DAUS     | 12.75 Put    | 20,000         | 88.5136   | 80.2104   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Sep 2017      | DAUS     | 13.50 Put    | 60             | 646.1614  | 636.5862  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Sep 2017      | DAUS     | 17.13 Call   | 60             | 0.0239    | 0.0263    | 0.0000 | 0.0000 | 0               | 0.00                     |
| Oct 2017      | DAUS     | 12.68 Put    | 15,000         | 96.3783   | 97.8396   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Oct 2017      | DAUS     | 13.40 Call   | 15,000         | 55.7584   | 61.9282   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Oct 2017      | DAUS     | 14.00 Call   | 500            | 36.0682   | 39.4574   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Oct 2017      | DAUS     | 12.92 Put    | 1,000          | 254.9334  | 253.9996  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Oct 2017      | DAUS     | 13.50 Put    | 60             | 666.8788  | 662.7874  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Oct 2017      | DAUS     | 14.10 Call   | 1,000          | 37.1555   | 40.1947   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Oct 2017      | DAUS     | 17.45 Call   | 60             | 0.5163    | 0.6127    | 0.0000 | 0.0000 | 0               | 0.00                     |
| Nov 2017      | DAUS     | 13.50 Put    | 60             | 693.9286  | 690.6858  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Nov 2017      | DAUS     | 17.74 Call   | 60             | 0.5101    | 0.6449    | 0.0000 | 0.0000 | 0               | 0.00                     |
| Nov 2017      | DAUS     | 12.75 Put    | 112,000        | 232.2073  | 230.5003  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Dec 2017      | DAUS     | 13.50 Put    | 60             | 720.7906  | 718.6692  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Dec 2017      | DAUS     | 18.02 Call   | 60             | 0.7445    | 0.7881    | 0.0000 | 0.0000 | 0               | 0.00                     |
| Jan 2018      | DAUS     | 13.20 Put    | 2,000          | 535.7858  | 534.6599  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Jan 2018      | DAUS     | 14.76 Call   | 1,000          | 106.0912  | 110.5429  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Jan 2018      | DAUS     | 14.88 Call   | 1,000          | 95.5017   | 99.6594   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Jan 2018      | DAUS     | 13.25 Put    | 107,000        | 593.7263  | 592.7857  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Jan 2018      | DAUS     | 13.27 Put    | 154,000        | 606.3107  | 605.3504  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Jan 2018      | DAUS     | 13.30 Put    | 40,904         | 625.3967  | 624.4126  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Jan 2018      | DAUS     | 13.40 Put    | 168,000        | 690.8453  | 689.7656  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Feb 2018      | DAUS     | 13.15 Put    | 2,723          | 533.9125  | 533.0598  | 0.0000 | 0.0000 | 0               | 0.00                     |
| Feb 2018      | DAUS     | 15.52 Call   | 2,723          | 81.8137   | 85.6367   | 0.0000 | 0.0000 | 0               | 0.00                     |
| Apr 2018      | DAUS     | 15.00 Put    | 1,000          | 1969.7589 | 1967.2177 | 0.0000 | 0.0000 | 0               | 0.00                     |
| Apr 2018      | DAUS     | 15.81 Call   | 2,000          | 166.2348  | 171.2974  | 0.0000 | 0.0000 | 0               | 0.00                     |
|               |          |              | <u>667,330</u> |           |           |        |        | <u>0.00</u>     | <u>0.00</u>              |
|               |          | <b>Total</b> | <b>769,103</b> |           |           |        |        | <b>0.00</b>     | <b>0.00</b>              |
|               |          |              |                |           |           |        |        |                 | <u>13 594 114.00</u>     |
|               |          |              |                |           |           |        |        |                 | <u>75 373 778 747.20</u> |
| <b>Future</b> |          |              |                |           |           |        |        |                 |                          |
| Sep 2017      | EUUS     | Future       | 5,150          | 1.2009    | 1.1942    | 0.0000 | 0.0000 | 5,120           | 61,731,840.00            |
| Dec 2017      | EUUS     | Future       | 40             | 1.2068    | 1.2001    | 0.0000 | 0.0000 | 0               | 0.00                     |
|               |          |              | <u>5,190</u>   |           |           |        |        | <u>5,120.00</u> | <u>61,731,840.00</u>     |
|               |          |              |                |           |           |        |        |                 | <u>632 988.00</u>        |
|               |          |              |                |           |           |        |        |                 | <u>7 101 087 872.00</u>  |

| DATE          | CONTRACT |            | OPEN INT       | MTM      | PREV MTM | HIGH    | LOW     | DAILY VOLUME    | CUMULATIVE VOLUME    |                      |                           |
|---------------|----------|------------|----------------|----------|----------|---------|---------|-----------------|----------------------|----------------------|---------------------------|
| <b>Total</b>  |          |            | <b>5,190</b>   |          |          |         |         | <b>5,120.00</b> | <b>61,731,840.00</b> | 632 988.00           | 7 101 087 872.00          |
| <b>Future</b> |          |            |                |          |          |         |         |                 |                      |                      |                           |
| Sep 2017      | ZAAD     | Future     | 24,226         | 10.3295  | 10.2828  | 10.2819 | 10.2277 | 750             | 7,686,100.00         |                      |                           |
| Dec 2017      | ZAAD     | Future     | 7,010          | 10.4635  | 10.4162  | 10.3590 | 10.3590 | 100             | 1,035,900.00         |                      |                           |
| Jun 2018      | ZAAD     | Future     | 1,500          | 10.7222  | 10.6730  | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
|               |          |            | <u>32,736</u>  |          |          |         |         | <u>850.00</u>   | <u>8,722,000.00</u>  | <u>3 317 313.00</u>  | <u>28 258 195 580.70</u>  |
| <b>Total</b>  |          |            | <b>32,736</b>  |          |          |         |         | <b>850.00</b>   | <b>8,722,000.00</b>  | 3 349 690.00         | 28 258 195 580.70         |
| <b>Future</b> |          |            |                |          |          |         |         |                 |                      |                      |                           |
| Sep 2017      | ZACA     | Future     | 1,200          | 10.5820  | 10.5183  | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
| Dec 2017      | ZACA     | Future     | 900            | 10.7358  | 10.6710  | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
|               |          |            | <u>2,100</u>   |          |          |         |         | <u>0.00</u>     | <u>0.00</u>          | <u>98 703.00</u>     | <u>942 770 542.10</u>     |
| <b>Total</b>  |          |            | <b>2,100</b>   |          |          |         |         | <b>0.00</b>     | <b>0.00</b>          | 98 703.00            | 942 770 542.10            |
| <b>Future</b> |          |            |                |          |          |         |         |                 |                      |                      |                           |
| Sep 2017      | ZACR     | Future     | 10             | 1.9804   | 1.9679   | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
|               |          |            | <u>10</u>      |          |          |         |         | <u>0.00</u>     | <u>0.00</u>          | <u>109 814.00</u>    | <u>2 503 859 606.00</u>   |
| <b>Total</b>  |          |            | <b>10</b>      |          |          |         |         | <b>0.00</b>     | <b>0.00</b>          | 109 814.00           | 2 503 859 606.00          |
| <b>Future</b> |          |            |                |          |          |         |         |                 |                      |                      |                           |
| Sep 2017      | ZAEU     | Future     | 98,803         | 15.4408  | 15.3667  | 15.4594 | 15.2687 | 3,985           | 61,316,897.60        |                      |                           |
| Dec 2017      | ZAEU     | Future     | 30,831         | 15.7351  | 15.6604  | 15.7355 | 15.5740 | 1,979           | 30,992,202.50        |                      |                           |
| Mar 2018      | ZAEU     | Future     | 10,307         | 16.0346  | 15.9585  | 15.8714 | 15.8714 | 100             | 1,587,140.00         |                      |                           |
| Jun 2018      | ZAEU     | Future     | 1              | 16.3335  | 16.2566  | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
|               |          |            | <u>139,942</u> |          |          |         |         | <u>6,064.00</u> | <u>93,896,240.10</u> | <u>12 201 155.00</u> | <u>170 801 301 202.70</u> |
| <b>Total</b>  |          |            |                |          |          |         |         | <b>6,064.00</b> | <b>93,896,240.10</b> | 12 201 155.00        | 170 801 301 202.70        |
| <b>Option</b> |          |            |                |          |          |         |         |                 |                      |                      |                           |
| Sep 2017      | ZAEU     | 15.10 Put  | 16,000         | 31.8659  | 41.1422  | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
| Dec 2017      | ZAEU     | 14.00 Put  | 18,000         | 18.0340  | 19.0338  | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
| Dec 2017      | ZAEU     | 16.39 Call | 18,000         | 254.6470 | 240.7295 | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
| Mar 2018      | ZAEU     | 15.05 Put  | 5,648          | 264.4027 | 283.8153 | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
| Mar 2018      | ZAEU     | 15.10 Put  | 19,510         | 279.7990 | 300.2284 | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
| Mar 2018      | ZAEU     | 16.50 Call | 643            | 534.6805 | 510.4675 | 0.0000  | 0.0000  | 0               | 0.00                 |                      |                           |
|               |          |            | <u>77,801</u>  |          |          |         |         | <u>0.00</u>     | <u>0.00</u>          | <u>5 309 260.00</u>  | <u>0.00</u>               |
| <b>Total</b>  |          |            | <b>217,743</b> |          |          |         |         | <b>6,064.00</b> | <b>93,896,240.10</b> | 17 510 415.00        | 170 801 301 202.70        |
| <b>Future</b> |          |            |                |          |          |         |         |                 |                      |                      |                           |
| Sep 2017      | ZAFR     | Future     | 3,658          | 13.5020  | 13.5038  | 13.4661 | 13.4652 | 250             | 3,366,390.00         |                      |                           |
| Dec 2017      | ZAFR     | Future     | 900            | 13.7748  | 13.7775  | 13.7364 | 13.7354 | 250             | 3,433,950.00         |                      |                           |
|               |          |            | <u>4,558</u>   |          |          |         |         | <u>500.00</u>   | <u>6,800,340.00</u>  | <u>588 346.00</u>    | <u>6 221 188 998.40</u>   |
| <b>Total</b>  |          |            | <b>4,558</b>   |          |          |         |         | <b>500.00</b>   | <b>6,800,340.00</b>  | 588 346.00           | 6 221 188 998.40          |

| <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> |                       |                             |
|---------------|-----------------|------------|------------------|------------|-----------------|-------------|------------|---------------------|--------------------------|-----------------------|-----------------------------|
| <b>Future</b> |                 |            |                  |            |                 |             |            |                     |                          |                       |                             |
| Sep 2017      | ZAGB            | Future     | 192,396          | 16.8485    | 16.8200         | 16.8359     | 16.6989    | 2,384               | 39,872,147.60            |                       |                             |
| Dec 2017      | ZAGB            | Future     | 5,994            | 17.1372    | 17.1090         | 16.9999     | 16.9800    | 145                 | 2,463,337.60             |                       |                             |
| Mar 2018      | ZAGB            | Future     | 420              | 17.4261    | 17.3971         | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018      | ZAGB            | Future     | 3,033            | 17.7107    | 17.6816         | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Sep 2018      | ZAGB            | Future     | 1,654            | 17.9961    | 17.9640         | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
|               |                 |            | <u>203,497</u>   |            |                 |             |            | <u>2,529.00</u>     | <u>42,335,485.20</u>     | <u>8 628 440.00</u>   | <u>143 000 350 675.60</u>   |
| <b>Option</b> |                 |            |                  |            |                 |             |            |                     |                          |                       |                             |
| Sep 2017      | ZAGB            | 16.70 Call | 700              | 245.4117   | 225.9714        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Sep 2017      | ZAGB            | 18.50 Call | 300              | 1.4339     | 1.6896          | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
|               |                 |            | <u>1,000</u>     |            |                 |             |            | <u>0.00</u>         | <u>0.00</u>              | <u>1 767 013.00</u>   | <u>0.00</u>                 |
| <b>Total</b>  |                 |            | <b>204,497</b>   |            |                 |             |            | <b>2,529.00</b>     | <b>42,335,485.20</b>     | <b>10 395 453.00</b>  | <b>143 000 350 675.60</b>   |
| <b>Future</b> |                 |            |                  |            |                 |             |            |                     |                          |                       |                             |
| Sep 2017      | ZAJY            | Future     | 84               | 0.1185     | 0.1182          | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Dec 2017      | ZAJY            | Future     | 115              | 0.1207     | 0.1204          | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
|               |                 |            | <u>199</u>       |            |                 |             |            | <u>0.00</u>         | <u>0.00</u>              | <u>952 496.00</u>     | <u>10 613 422 776.50</u>    |
| <b>Total</b>  |                 |            | <b>199</b>       |            |                 |             |            | <b>0.00</b>         | <b>0.00</b>              | <b>952 496.00</b>     | <b>10 613 422 776.50</b>    |
| <b>Future</b> |                 |            |                  |            |                 |             |            |                     |                          |                       |                             |
| Sep 2017      | ZAKS            | Future     | 1,382            | 0.1244     | 0.1244          | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018      | ZAKS            | Future     | 1,145            | 0.1207     | 0.1231          | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
|               |                 |            | <u>2,527</u>     |            |                 |             |            | <u>0.00</u>         | <u>0.00</u>              | <u>29 417.00</u>      | <u>400 402 950.00</u>       |
| <b>Total</b>  |                 |            | <b>2,527</b>     |            |                 |             |            | <b>0.00</b>         | <b>0.00</b>              | <b>29 417.00</b>      | <b>400 402 950.00</b>       |
| <b>Future</b> |                 |            |                  |            |                 |             |            |                     |                          |                       |                             |
| Sep 2017      | ZAUM            | Future     | 249              | 12.8572    | 12.8674         | 12.8673     | 12.8010    | 15                  | 19,236,230.00            |                       |                             |
| Dec 2017      | ZAUM            | Future     | 562              | 13.0392    | 13.0490         | 12.9870     | 12.9810    | 6                   | 7,791,600.00             |                       |                             |
| Mar 2018      | ZAUM            | Future     | 7                | 13.2184    | 13.2274         | 13.1571     | 13.1571    | 1                   | 1,315,710.00             |                       |                             |
| Jun 2018      | ZAUM            | Future     | 172              | 13.3949    | 13.4039         | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
|               |                 |            | <u>990</u>       |            |                 |             |            | <u>22.00</u>        | <u>28,343,540.00</u>     | <u>141 993.00</u>     | <u>162 393 169 920.00</u>   |
| <b>Total</b>  |                 |            | <b>990</b>       |            |                 |             |            | <b>22.00</b>        | <b>28,343,540.00</b>     | <b>146 516.00</b>     | <b>162 393 169 920.00</b>   |
| <b>Future</b> |                 |            |                  |            |                 |             |            |                     |                          |                       |                             |
| Sep 2017      | ZAUS            | Future     | 821,769          | 12.8572    | 12.8674         | 12.8700     | 12.7871    | 44,340              | 568,653,386.40           |                       |                             |
| Dec 2017      | ZAUS            | Future     | 186,748          | 13.0392    | 13.0490         | 13.0562     | 12.9668    | 24,579              | 320,099,655.60           |                       |                             |
| Mar 2018      | ZAUS            | Future     | 110,217          | 13.2184    | 13.2274         | 13.2288     | 13.1436    | 195                 | 2,567,260.50             |                       |                             |
| Jun 2018      | ZAUS            | Future     | 100,334          | 13.3949    | 13.4039         | 13.4066     | 13.3502    | 4,091               | 54,686,229.00            |                       |                             |
| Sep 2018      | ZAUS            | Future     | 400              | 13.5709    | 13.5780         | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Sep 2020      | ZAUS            | Future     | 184,000          | 15.1786    | 15.1845         | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
|               |                 |            | <u>1,403,468</u> |            |                 |             |            | <u>73,205.00</u>    | <u>946,006,531.50</u>    | <u>151 948 746.00</u> | <u>1 767 575 788 891.40</u> |

| <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> |      |
|-------------|-----------------|-----------------|------------|-----------------|-------------|------------|---------------------|--------------------------|------|
| Option      |                 |                 |            |                 |             |            |                     |                          |      |
| Sep 2017    | ZAUS            | 12.00 Put       | 37,202     | 1.0256          | 0.6189      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.20 Put       | 1,000      | 3.6173          | 2.3692      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.25 Put       | 10,000     | 4.8699          | 3.2835      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.26 Put       | 5,250      | 5.1656          | 3.5031      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.50 Put       | 91,184     | 20.0520         | 15.4909     | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.54 Put       | 1,000      | 24.8078         | 19.5509     | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.55 Put       | 4,920      | 26.1449         | 20.7060     | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.60 Put       | 190        | 33.8449         | 27.4505     | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.75 Call      | 3,500      | 177.1039        | 177.8721    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.75 Put       | 26,250     | 69.9039         | 60.4721     | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.80 Put       | 3,000      | 87.4041         | 77.0456     | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.85 Call      | 350        | 115.3856        | 0.0000      | 0.0000     | 0.0000              | 350                      | 0.00 |
| Sep 2017    | ZAUS            | 12.90 Call      | 400        | 94.1159         | 92.7709     | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 12.96 Put       | 1,000      | 175.7475        | 164.0096    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.00 Call      | 4,551      | 61.2116         | 59.6715     | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.00 Put       | 38,100     | 204.0116        | 192.2715    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.14 Put       | 90         | 315.0120        | 303.6816    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.15 Put       | 500        | 323.5268        | 312.2362    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.20 Call      | 3,000      | 24.2157         | 23.3263     | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.20 Put       | 5,920      | 367.0157        | 355.9263    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.25 Put       | 25,000     | 411.8289        | 400.9304    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.40 Call      | 100        | 9.1331          | 8.8735      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.40 Put       | 3,500      | 551.9331        | 541.4735    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.42 Call      | 1,000      | 8.2762          | 8.0580      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.45 Call      | 4,375      | 7.1388          | 6.9758      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.45 Put       | 3,500      | 599.9388        | 589.5758    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.48 Call      | 111        | 6.1577          | 6.0420      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.50 Call      | 5,980      | 5.5800          | 5.4919      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.63 Put       | 143,712    | 776.1412        | 765.8963    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.65 Call      | 1,000      | 3.0972          | 3.0574      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.75 Put       | 20,000     | 894.9459        | 884.7266    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.76 Put       | 960        | 904.8709        | 894.6533    | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.80 Call      | 10,000     | 1.8000          | 1.7882      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.81 Call      | 4,920      | 1.7389          | 1.7283      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.90 Call      | 1,000      | 1.2859          | 1.2848      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 13.94 Call      | 1,250      | 1.1303          | 1.1322      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 14.00 Call      | 3,000      | 0.9370          | 0.9424      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 14.20 Call      | 90         | 0.4988          | 0.5108      | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 14.22 Put       | 110        | 1363.2623       | 1353.0747   | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 14.32 Put       | 110        | 1463.1183       | 1452.9316   | 0.0000     | 0.0000              | 0                        | 0.00 |
| Sep 2017    | ZAUS            | 14.33 Call      | 3,000      | 0.3068          | 0.3201      | 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 2017    | ZAUS            | 14.47 Put  | 150             | 1612.9856  | 1602.7981       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 14.50 Call | 17,402          | 0.1672     | 0.1793          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 14.55 Call | 1,084           | 0.1407     | 0.1522          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 14.72 Call | 20,000          | 0.0801     | 0.0893          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 14.74 Call | 4,375           | 0.0751     | 0.0841          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 15.00 Call | 10,600          | 0.0340     | 0.0400          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 16.00 Call | 3,680           | 0.1047     | 0.1174          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 16.40 Call | 960             | 0.2632     | 0.2828          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 16.50 Call | 10,000          | 0.3188     | 0.3398          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 16.80 Call | 110             | 0.3537     | 0.3724          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 17.00 Call | 150             | 0.2154     | 0.2273          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 17.03 Call | 110             | 0.1998     | 0.2109          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Sep 2017    | ZAUS            | 18.00 Call | 3,099           | 0.0155     | 0.0166          | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 11.75 Put  | 1,000           | 25.6427    | 25.5115         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 12.00 Put  | 20,141          | 52.6170    | 52.2310         | 0.0000      | 0.0000     | 4,000               | 0.00                     |
| Dec 2017    | ZAUS            | 12.16 Put  | 550             | 78.7420    | 78.0917         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 12.21 Put  | 18,000          | 88.5772    | 87.8269         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 12.40 Put  | 114,600         | 134.0475   | 132.8386        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 12.50 Put  | 11,916          | 165.2500   | 164.0432        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 12.65 Put  | 1,819           | 220.0667   | 218.8825        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 12.75 Put  | 2,600           | 262.0096   | 260.8461        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 12.76 Put  | 550             | 266.4416   | 265.2784        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 13.00 Put  | 10,000          | 385.4504   | 384.2895        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 13.10 Put  | 41,000          | 443.2238   | 441.9471        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 13.12 Put  | 40,000          | 455.4960   | 454.1758        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 13.18 Put  | 16,000          | 493.2032   | 491.7515        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 13.20 Call | 4,020           | 345.2640   | 353.5663        | 0.0000      | 0.0000     | 4,000               | 0.00                     |
| Dec 2017    | ZAUS            | 13.21 Put  | 5,000           | 512.5477   | 511.0282        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 13.25 Call | 16,141          | 328.0314   | 336.2179        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 13.35 Put  | 52,000          | 606.8870   | 605.0350        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 13.40 Put  | 114,600         | 642.1105   | 640.1313        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 13.50 Call | 11,016          | 253.9772   | 261.5453        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 13.60 Call | 4,000           | 229.3916   | 0.0000          | 0.0000      | 0.0000     | 4,000               | 0.00                     |
| Dec 2017    | ZAUS            | 13.80 Call | 1,000           | 187.1846   | 193.8128        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 14.00 Put  | 33,000          | 1113.7455  | 1109.7888       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 14.40 Call | 2,000           | 102.9249   | 107.3915        | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 14.50 Put  | 2,055           | 1553.5941  | 1547.9449       | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 14.63 Call | 10,000          | 81.1859    | 84.9576         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 15.00 Call | 5,580           | 55.9513    | 58.8009         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 15.11 Call | 1,900           | 50.2215    | 52.8420         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 15.12 Call | 40,000          | 49.7339    | 52.3349         | 0.0000      | 0.0000     | 0                   | 0.00                     |
| Dec 2017    | ZAUS            | 15.50 Call | 25,457          | 34.6255    | 36.5702         | 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 2017    | ZAUS            | 16.00 Call | 117,200          | 18.1681    | 19.2412         | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Dec 2017    | ZAUS            | 17.13 Call | 18,000           | 3.0261     | 3.2016          | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Dec 2017    | ZAUS            | 17.24 Call | 33,000           | 2.5208     | 2.6711          | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Dec 2017    | ZAUS            | 18.06 Call | 2,055            | 0.6109     | 0.6554          | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 12.00 Put  | 225,000          | 134.0827   | 132.7700        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 12.40 Put  | 2,500            | 241.1273   | 239.8344        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 12.50 Put  | 26,000           | 274.6836   | 273.4257        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 13.00 Put  | 113,187          | 498.1647   | 496.7878        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 13.25 Put  | 5,600            | 637.8678   | 636.8120        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 13.38 Put  | 2,500            | 717.9300   | 716.9626        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 13.40 Put  | 2,500            | 730.6168   | 729.6614        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 13.50 Call | 100              | 513.8817   | 521.9811        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 13.91 Put  | 7,000            | 1084.3053  | 1083.2410       | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 14.00 Call | 767              | 370.8115   | 378.4764        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 14.18 Put  | 41,000           | 1292.6210  | 1290.7489       | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 14.91 Call | 8,395            | 207.7584   | 214.3388        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 15.11 Call | 2,500            | 182.6732   | 188.7393        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 15.26 Call | 2,500            | 166.0704   | 171.7661        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 15.46 Call | 3,867            | 146.5109   | 151.7466        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 15.50 Call | 65,000           | 142.9230   | 148.0687        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 15.75 Call | 15,000           | 122.6494   | 127.2735        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 16.00 Call | 750              | 107.4898   | 110.9854        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Mar 2018    | ZAUS            | 16.16 Call | 225,000          | 99.8276    | 103.0184        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018    | ZAUS            | 11.00 Put  | 750              | 32.9710    | 30.8422         | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018    | ZAUS            | 12.00 Put  | 112,000          | 190.8082   | 187.5431        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018    | ZAUS            | 12.96 Put  | 2,700            | 540.9592   | 537.7838        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018    | ZAUS            | 13.00 Put  | 760              | 561.2660   | 558.1195        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018    | ZAUS            | 13.05 Put  | 750              | 587.1831   | 584.0772        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018    | ZAUS            | 13.64 Put  | 70,530           | 934.4291   | 931.7856        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018    | ZAUS            | 13.70 Put  | 184,000          | 973.6651   | 971.0522        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018    | ZAUS            | 15.11 Call | 760              | 335.2398   | 341.0321        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018    | ZAUS            | 15.14 Call | 2,700            | 330.3774   | 336.1249        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Jun 2018    | ZAUS            | 16.38 Call | 750              | 190.7482   | 195.0098        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Sep 2018    | ZAUS            | 11.00 Put  | 750              | 30.1772    | 25.2635         | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Sep 2018    | ZAUS            | 12.61 Put  | 5,300            | 437.0222   | 434.1070        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Sep 2018    | ZAUS            | 12.85 Put  | 750              | 535.4060   | 533.5695        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Sep 2018    | ZAUS            | 15.97 Call | 5,300            | 355.6413   | 360.1903        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
| Sep 2018    | ZAUS            | 16.14 Call | 750              | 334.2098   | 338.5001        | 0.0000      | 0.0000     | 0                   | 0.00                     |                       |                             |
|             |                 |            | <u>2,455,761</u> |            |                 |             |            | <u>12,350.00</u>    | <u>0.00</u>              | <u>37 718 705.00</u>  | <u>0.00</u>                 |
|             | <b>Total</b>    |            | <b>3,859,229</b> |            |                 |             |            | <b>85,555.00</b>    | <b>946,006,531.50</b>    | <b>189 667 451.00</b> | <b>1 767 575 788 891.40</b> |

| <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 |  | 5,295,125 |  |  |  |  | 100,640.00 | 1 187 835 976.80 | 252,874,785 | 2,421,582,825,909.90 |
|-------------|--|-----------|--|--|--|--|------------|------------------|-------------|----------------------|