

**Table 1** Leaf lengths (mm) from five fully developed leaves of the 1<sup>st</sup> seedling of *Amaranthus tricolor* with NPK15:15:15 fertilizer treatment during the duration of experimentations; eight weeks ( $\pm$  56 days). Rep.: Replication.

| Seedling<br>#1 Rep. 2 | Week | (mm)<br>1 | (mm)<br>2 | (mm)<br>3 | (mm)<br>4 | (mm)<br>5 | (mm)<br>6 | (mm)<br>7 | (mm)<br>8 |
|-----------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1                     |      | 17.84     | 23.79     | 31.73     | 44.32     | 56.43     | 62.47     | 68.52     | 80.06     |
| 2                     |      | 17.98     | 23.98     | 31.98     | 42.65     | 56.87     | 62.92     | 68.96     | 78.70     |
| 3                     |      | 17.42     | 23.23     | 30.97     | 41.31     | 55.08     | 61.13     | 67.17     | 75.04     |
| 4                     |      | 15.76     | 21.02     | 28.03     | 37.37     | 49.84     | 55.89     | 61.93     | 73.96     |
| 5                     |      | 16.30     | 21.74     | 28.99     | 38.66     | 51.55     | 57.60     | 63.64     | 73.00     |

**Table 2** Leaf lengths (mm) from five fully developed leaves of the 2<sup>nd</sup> seedling of *Amaranthus tricolor* with NPK15:15:15 fertilizer treatment during the duration of experimentations; eight weeks ( $\pm$  56 days). Rep.: Replication.

| Seedling<br>#2 Rep. 2 | Week | (mm)<br>1 | (mm)<br>2 | (mm)<br>3 | (mm)<br>4 | (mm)<br>5 | (mm)<br>6 | (mm)<br>7 | (mm)<br>8 |
|-----------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1                     |      | 17.57     | 23.43     | 31.24     | 41.66     | 55.56     | 61.60     | 67.65     | 78.69     |
| 2                     |      | 17.63     | 23.51     | 31.35     | 41.80     | 55.74     | 61.79     | 67.83     | 76.90     |
| 3                     |      | 16.64     | 22.18     | 29.58     | 39.45     | 52.61     | 58.65     | 64.70     | 73.93     |
| 4                     |      | 15.42     | 20.56     | 27.42     | 37.79     | 48.76     | 54.81     | 60.85     | 73.15     |
| 5                     |      | 15.99     | 21.32     | 28.43     | 37.91     | 50.55     | 56.60     | 62.64     | 70.90     |

**Table 3** Leaf lengths (mm) from five fully developed leaves of the 3<sup>rd</sup> seedling of *Amaranthus tricolor* with NPK15:15:15 fertilizer treatment during the duration of experimentations; eight weeks ( $\pm$  56 days). Rep.: Replication.

| Seedling<br>#3 Rep. 2 | Week | (mm)<br>1 | (mm)<br>2 | (mm)<br>3 | (mm)<br>4 | (mm)<br>5 | (mm)<br>6 | (mm)<br>7 | (mm)<br>8 |
|-----------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1                     |      | 18.13     | 24.17     | 32.23     | 42.99     | 57.32     | 63.37     | 69.41     | 81.78     |
| 2                     |      | 19.22     | 25.63     | 34.17     | 45.57     | 60.77     | 66.82     | 72.86     | 79.31     |
| 3                     |      | 17.86     | 23.82     | 31.76     | 42.35     | 56.48     | 62.52     | 68.57     | 77.23     |
| 4                     |      | 16.14     | 21.52     | 28.69     | 38.26     | 51.03     | 57.07     | 63.12     | 76.26     |
| 5                     |      | 16.52     | 22.03     | 29.37     | 40.22     | 52.24     | 58.28     | 64.33     | 75.59     |

**Table 4** Leaf lengths (mm) from five fully developed leaves of the 4<sup>th</sup> seedling of *Amaranthus tricolor* with NPK15:15:15 fertilizer treatment during the duration of experimentations; eight weeks ( $\pm$  56 days). Rep.: Replication.

| Seedling<br>#4 Rep. 2 | Week | (mm)<br>1 | (mm)<br>2 | (mm)<br>3 | (mm)<br>4 | (mm)<br>5 | (mm)<br>6 | (mm)<br>7 | (mm)<br>8 |
|-----------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1                     |      | 14.44     | 19.26     | 25.69     | 34.25     | 45.68     | 51.72     | 57.77     | 66.54     |
| 2                     |      | 13.59     | 18.12     | 24.16     | 33.29     | 42.97     | 49.01     | 55.06     | 67.88     |
| 3                     |      | 14.15     | 18.87     | 25.17     | 33.56     | 44.76     | 50.80     | 56.85     | 66.73     |
| 4                     |      | 13.93     | 18.57     | 24.77     | 33.03     | 44.05     | 50.09     | 56.14     | 65.12     |
| 5                     |      | 14.56     | 19.42     | 25.89     | 34.53     | 46.05     | 52.09     | 58.14     | 63.13     |

**Table 5** Leaf lengths (mm) from five fully developed leaves of the 5<sup>th</sup> seedling of *Amaranthus tricolor* with NPK15:15:15 fertilizer treatment during the duration of experimentations; eight weeks ( $\pm$  56 days). Rep.: Replication.

| Seedling<br>#5 Rep. 2 | Week | (mm)<br>1 | (mm)<br>2 | (mm)<br>3 | (mm)<br>4 | (mm)<br>5 | (mm)<br>6 | (mm)<br>7 | (mm)<br>8 |
|-----------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1                     |      | 19.82     | 26.43     | 35.24     | 47.09     | 62.67     | 68.71     | 74.76     | 82.98     |
| 2                     |      | 19.55     | 26.07     | 34.77     | 46.36     | 61.83     | 67.87     | 73.92     | 81.11     |
| 3                     |      | 18.28     | 24.37     | 32.50     | 43.34     | 57.80     | 63.84     | 69.89     | 78.44     |
| 4                     |      | 16.90     | 22.54     | 30.06     | 40.08     | 53.45     | 59.49     | 65.54     | 77.03     |
| 5                     |      | 16.82     | 22.43     | 29.91     | 39.88     | 53.19     | 59.23     | 65.28     | 75.93     |

**Table 6** Leaf lengths (mm) from five fully developed leaves of the 6<sup>th</sup> seedling of *Amaranthus tricolor* with NPK15:15:15 fertilizer treatment during the duration of experimentations; eight weeks ( $\pm$  56 days). Rep.: Replication.

| Seedling<br>#6 Rep. 2 | Week | (mm)<br>1 | (mm)<br>2 | (mm)<br>3 | (mm)<br>4 | (mm)<br>5 | (mm)<br>6 | (mm)<br>7 | (mm)<br>8 |
|-----------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1                     |      | 16.18     | 21.57     | 28.77     | 38.36     | 51.16     | 57.20     | 63.25     | 76.40     |
| 2                     |      | 17.11     | 22.82     | 30.43     | 40.58     | 54.11     | 60.15     | 66.20     | 72.74     |
| 3                     |      | 15.77     | 21.03     | 28.04     | 37.39     | 49.87     | 55.91     | 61.96     | 71.84     |
| 4                     |      | 14.73     | 19.64     | 26.19     | 34.93     | 46.57     | 52.62     | 58.66     | 70.05     |
| 5                     |      | 15.40     | 20.54     | 27.39     | 36.53     | 48.71     | 54.75     | 60.80     | 66.86     |

**Table 7** Leaf lengths (mm) from five fully developed leaves of the 7<sup>th</sup> seedling of *Amaranthus tricolor* with NPK15:15:15 fertilizer treatment during the duration of experimentations; eight weeks ( $\pm$  56 days). Rep.: Replication.

| Seedling<br>#7 Rep. 2 | Week | (mm)<br>1 | (mm)<br>2 | (mm)<br>3 | (mm)<br>4 | (mm)<br>5 | (mm)<br>6 | (mm)<br>7 | (mm)<br>8 |
|-----------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1                     |      | 14.40     | 19.21     | 25.61     | 34.16     | 45.55     | 51.59     | 57.64     | 67.46     |
| 2                     |      | 13.69     | 18.25     | 24.34     | 32.46     | 43.28     | 49.33     | 55.37     | 68.66     |
| 3                     |      | 14.27     | 19.03     | 25.38     | 33.84     | 45.13     | 51.17     | 57.22     | 67.16     |
| 4                     |      | 14.01     | 18.68     | 24.92     | 33.23     | 44.31     | 50.35     | 56.40     | 65.92     |
| 5                     |      | 14.84     | 19.80     | 26.40     | 35.20     | 46.94     | 52.99     | 59.03     | 64.07     |

**Table 8** Leaf lengths (mm) from five fully developed leaves of the 8<sup>th</sup> seedling of *Amaranthus tricolor* with NPK15:15:15 fertilizer treatment during the duration of experimentations; eight weeks ( $\pm$  56 days). Rep.: Replication.

| Seedling<br>#8 Rep. 2 | Week | (mm)<br>1 | (mm)<br>2 | (mm)<br>3 | (mm)<br>4 | (mm)<br>5 | (mm)<br>6 | (mm)<br>7 | (mm)<br>8 |
|-----------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1                     |      | 12.64     | 16.85     | 22.47     | 29.97     | 39.96     | 46.01     | 52.05     | 62.41     |
| 2                     |      | 12.10     | 16.13     | 21.51     | 28.68     | 38.25     | 44.29     | 50.34     | 61.16     |
| 3                     |      | 13.09     | 17.45     | 23.27     | 31.03     | 41.38     | 47.43     | 53.47     | 63.85     |
| 4                     |      | 12.48     | 16.64     | 22.19     | 29.59     | 39.46     | 45.51     | 51.55     | 61.91     |
| 5                     |      | 13.60     | 18.14     | 24.19     | 32.26     | 43.02     | 49.06     | 55.11     | 67.05     |

**Table 9** Leaf lengths (mm) from five fully developed leaves of the 9<sup>th</sup> seedling of *Amaranthus tricolor* with NPK15:15:15 fertilizer treatment during the duration of experimentations; eight weeks ( $\pm$  56 days). Rep.: Replication.

| Seedling<br>#9 Rep. 2 | Week | (mm)<br>1 | (mm)<br>2 | (mm)<br>3 | (mm)<br>4 | (mm)<br>5 | (mm)<br>6 | (mm)<br>7 | (mm)<br>8 |
|-----------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1                     |      | 20.98     | 27.98     | 37.31     | 49.76     | 66.36     | 72.40     | 78.45     | 82.10     |
| 2                     |      | 19.33     | 25.78     | 34.38     | 45.85     | 61.14     | 67.19     | 73.23     | 80.08     |
| 3                     |      | 18.13     | 24.18     | 32.25     | 43.00     | 57.35     | 63.39     | 69.44     | 77.69     |
| 4                     |      | 16.45     | 21.94     | 29.26     | 39.01     | 52.03     | 58.07     | 64.12     | 76.41     |
| 5                     |      | 16.72     | 22.29     | 29.73     | 39.65     | 52.87     | 58.92     | 64.96     | 76.91     |

**Table 10** Leaf lengths (mm) from five fully developed leaves of the 10<sup>th</sup> seedling of *Amaranthus tricolor* with NPK15:15:15 fertilizer treatment during the duration of experimentations; eight weeks ( $\pm$  56 days). Rep.: Replication.

| Seedling<br>#10 Rep. 2 | Week | (mm)<br>1 | (mm)<br>2 | (mm)<br>3 | (mm)<br>4 | (mm)<br>5 | (mm)<br>6 | (mm)<br>7 | (mm)<br>8 |
|------------------------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1                      |      | 13.82     | 18.43     | 24.58     | 32.77     | 43.70     | 49.75     | 55.79     | 64.58     |
| 2                      |      | 13.17     | 17.56     | 23.42     | 31.23     | 41.71     | 47.75     | 53.80     | 66.60     |
| 3                      |      | 13.75     | 18.34     | 24.46     | 32.61     | 43.49     | 49.54     | 55.58     | 63.12     |
| 4                      |      | 13.85     | 18.47     | 24.63     | 32.85     | 43.81     | 49.85     | 55.90     | 63.69     |
| 5                      |      | 14.32     | 19.10     | 25.46     | 33.96     | 45.28     | 51.33     | 57.37     | 60.78     |