



Table 1. Soil characteristic in research location in Srigading Village, Bantul District

|  |  |  |
| --- | --- | --- |
| Parameter  | Value | Note (\*) |
| Texture |  |  |
| Sand (%) | 32,12 | Sandy loam  |
| Silt (%) | 43,65 |
| Clay (%) | 24,23 |
| Soil Organic Material (%) | 1,74 | Low |
| pH H2O (%) | 7,01 | Neutral |
| N Total (%) | 0,07 | Very Low |
| P Availability (%) | 0,01 | Very Low |
| Potassium Availability (%) | 1,05 | High |

Soil analysis was conducted in Integrated Laboratorium of INSTIPER, Yogyakarta (2016).

\*Classified according to Balai Penelitian Tanah (BALITTANAH) (2009)

Table 2. The number of leaf and leaf area index of shallot on 6 WAP in Different Cropping System and Reducing Rates of Inorganic Fertilizer Treatment

|  |  |
| --- | --- |
| Treatments | Variables |
| Number of Leaf | Leaf Area Index |
| Cropping system |  |  |
| Monoculture | 34,07 a | 0,29 a |
| Multiple cropping system | 39,15 a | 0,28 a |
| Fertilizer Rates (% of recommended rates) |
| 100 | 32,06 p | 0,29 p |
| 50  | 39,44 p | 0,30 p |
| 25  | 38,34 p | 0,27 p |
| Interaction | - | - |

Note: Data in the same column followed by the same letters were not significantly different according to Tukey 5%; Notation (-) shown there was no interaction between each factor.

Table 3. Total Chlorophyll content, N Content, N Uptake of Shallot in Different Cropping System and Reducing Rates of Inorganic Fertilizer Treatment

|  |  |
| --- | --- |
| Treatment | Variables |
| N Content (%) | N Uptake (mg.g-1) | Total Chlorophyll (mg.g-1) |
| Cropping system |  |  |  |
| Monoculture | 1,54 a | 8,54 a | 0,04 a |
| Multiple cropping system | 1,58 a | 7,79 a | 0,06 a |
| Fertilizer Rates (% of recommended rates) |
| 100 | 1,53 p | 8,91 pq | 0,05 p |
| 50  | 1,58 p | 8,97 p | 0,03 p |
| 25  | 1,52 p | 6,62 q | 0,06 p |
| Interaction | - | - | - |

Note: Data in the same column followed by the same letters were not significantly different according to Tukey 5%; Notation (-) shown there was no interaction between each factor.

Table 4. Net Assimilation Rate and Crop Growth Rate of shallot on 6 WAP in Different Cropping System and Reducing Rates of Inorganic Fertilizer Treatment

|  |  |
| --- | --- |
| Perlakuan | Variables |
| Net Assimaltion Rate (g.dm-2.week-1) | Crop Growth Rate (g.cm-2.week-1) |
| Cropping system |  |  |
| Monoculture | 0,50 a | 0,03 a |
| Multiple cropping system | 0,47 a | 0,03 a |
| Fertilizer Rates (% of recommended rates) |
| 100 | 0,52 p | 0,03 p |
| 50  | 0,48 p | 0,03 p |
| 25  | 0,45 p | 0,03 p |
| Interaction | - | - |

Note: Data in the same column followed by the same letters were not significantly different according to Tukey 5%; Notation (-) shown there was no interaction between each factor.

Table 5. Plant height and dry mass of shallot on 6 WAP in Different Cropping System and Reducing Rates of Inorganic Fertilizer Treatment

|  |  |
| --- | --- |
| Treatments | Variables |
| Plant Height (cm) | Total Dry Mass (g) |
| Cropping system |  |  |
| Monoculture | 32,81 a | 5,68 a |
| Multiple cropping system | 37,58 a | 5,20 a |
| Fertilizer Rates (% of recommended rates) |
| 100 | 33,30 p | 5,73 p |
| 50  | 34,73 p | 5,75 p |
| 25  | 37,56 p | 4,84 p |
| Interaction | - | - |

Note: Data in the same column followed by the same letters were not significantly different according to Tukey 5%; Notation (-) shown there was no interaction between each factor.

Table 6. Number of Bulb, Weight per Bulb (g), Productivity of Shallot in Different Cropping System and Reducing Rates of Inorganic Fertilizer Treatment

|  |  |
| --- | --- |
| Treatments | Variables  |
| Number of Bulb | Weight Per Bulb (g) | Productivity (ton.ha-1) |
| Cropping system |  |  |  |
| Monoculture | 6,78 a | 3,45 a | 5,89 a |
| Multiple cropping system | 6,41 a | 3,42 a | 5,64 a |
| Fertilizer Rates (% of recommended rates) |
| 100 | 6,17 p | 3,90 p | 6,03 p |
| 50  | 6,39 p | 3,75 p | 5,91 p |
| 25  | 7,22 p | 2,65 q | 5,34 q |
| Interaction | - | - | - |

Note: Data in the same column followed by the same letters were not significantly different according to Tukey 5%; Notation (-) shown there was no interaction between each factor.