Table 2: Changes in Soil pH values under various treatments with green manuring over the period of 1 year

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatments** | **Changes in pH at 12 months level** | | | |
| **Before incorporation of green manures** | **4 months after incorporation of green manures** | **8 months after incorporation of green manures** | **8 months after incorporation of green manures** |
| T0 (Control)  T1 (Azolla)  T2 (Grass)  T3(Water Hyacinth)  T4 (Nuts)  T5 (Azolla+WH)  T6 (Nuts+Grass) | 4.53  4.53  4.53  4.53  4.53  4.53  4.53 | 4.53  4.69  5.13  4.99  4.83  4.80  5.02 | 4.59  4.72  5.68  6.21  6.03  5.54  5.96 | 4.99  5.89  5.24  6.00  6.14  5.73  5.99 |

Table 3: Changes in Soil organic carbon values under various treatments with green manuring over the period of 1 year

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatments** | **Changes in soil organic carbon at 12 months** | | | |
| **Before incorporation of green manures** | **4 months after incorporation of green manures** | **8 months after incorporation of green manures** | **12 months after incorporation of green manures** |
| T0  T1  T2  T3  T4  T5  T6 | **0.30**  **0.30**  **0.30**  **0.30**  **0.30**  **0.30**  **0.30** | 0.36  0.54  0.40  0.41  0.70  0.39  0.26 | 0.35  0.56  0.45  0.43  0.75  0.38  0.29 | 0.37  0.56  0.48  0.49  0.77  0.40  0.53 |

Table 4: Changes in Soil nitrogen values under various treatments with green manuring over the period of 1 year

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatments** | **Nitrogen content (%)** | | | |
| **Before incorporation of green manures** | **4 months after incorporation of green manures** | **8 months after incorporation of green manures** | **12 months after incorporation of green manures** |
| T0  T1  T2  T3  T4  T5  T6 | **0.082**  **0.082**  **0.082**  **0.082**  **0.082**  **0.082**  **0.082** | **0.09**  **0.13**  **0.15**  **0.14**  **0.18**  **0.13**  **0.16** | **0.09**  **0.14**  **0.15**  **0.16**  **0.20**  **0.13**  **0.17** | **0.09**  **0.16**  **0.17**  **0.16**  **0.21**  **0.15**  **0.17** |

Table 6: Changes in CEC under various treatments with green manuring over the period of 1 year

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Treatments** | **Cation Exchange Capacity** | | |  |
| **Before incorporation of green manures** | **4 months after incorporation of green manures** | **8 months after incorporation of green manures** | **12 months after incorporation of green manures** |
| T0  T1  T2  T3  T4  T5  T6 | **23**  **23**  **23**  **23**  **23**  **23**  **23** | **24**  **26.3**  **27.0**  **28.5**  **32.5**  **27.3**  **31** | **25**  **26.1**  **27.5**  **28.00**  **36.0**  **29.75**  **32.92** | **24.9**  **26.5**  **27.6**  **29.9**  **36.0**  **28.1**  **31.7** |