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| **TABLE S1 |** Fertilizer application rates for the different treatments in the field experiment. |
| Treatment | N | P2O5 | K2O | microorganism blended fertilizer | DAP  | microbial agent |
| （kg/hm2） | （kg/hm2） | （kg/hm2） | （kg/hm2） | （kg/hm2） |
| P0 | 210 | 0 | 90 | - | - | - |
| FP | 210 | 120 | 90 | - | 260.87 | - |
| P1 | 210 | 84 | 90 | 700 | - | - |
| P2 | 210 | 84 | 90 | 560 | 36.52 | - |
| P3 | 210 | 84 | 90 | - | 182.61 | + |
| DAP, diammonium phosphate. |