**Supplementary Materials**

Optimizing rainfed rice productivity in Madagascar: Combinatory design of organic and mineral fertilizing resources assemblage

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**Table S1**. Dry matter, ash content (Ash), contents of total carbon (C), nitrogen (N), phosphorus (P), phosphorus pentoxide (P2O5), sulphur (S), potassium (K), potassium oxide (K2O), calcium (Ca), magnesium (Mg), C:N ratio, pH for the seventeen organic and mineral fertilizing resources.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Dry matter** |  | **Ash** | **C** | | **N** | | **P** | **P2O5** | **S** | **K** | **K2O** | **Ca** | **Mg** | **C:N ratio** | **pH** |
|  | **g kg-1** |  |  | |  | | **g kg-1 DM** | | | | | | | | - | - |
| **ManI** | 360 |  | 703 | 288 | | 21.60 | | 0.96 | 2.2 | 3.00 | 4.50 | 5.4 | 1.50 | 1.09 | 13 | 8 |
| **ManV** | 500 |  | 597 | 214 | | 18.68 | | 2.96 | 6.8 | 2.45 | 22.10 | 26.6 | 7.57 | 4.52 | 11 | 9 |
| **KM** | 930 |  | 659 | 140 | | 10.32 | | 1.57 | 3.6 | 1.51 | 6.88 | 8.3 | 3.56 | 2.57 | 14 | 9 |
| **ComM** | 840 |  | 723 | 166 | | 13.57 | | 4.75 | 10.9 | 1.14 | 5.26 | 6.3 | 44.03 | 9.10 | 12 | 8 |
| **ComT** | 940 |  | 800 | 113 | | 5.98 | | 3.72 | 8.5 | 2.04 | 2.60 | 3.1 | 8.95 | 1.88 | 19 | 8 |
| **VermT** | 460 |  | 515 | 231 | | 19.99 | | 3.75 | 8.6 | 3.04 | 17.05 | 20.5 | 7.58 | 3.82 | 12 | 8 |
| **VermV** | 950 |  | 667 | 134 | | 11.73 | | 2.00 | 4.6 | 1.94 | 3.62 | 4.4 | 4.84 | 2.98 | 11 | 7 |
| **Tar** | 760 |  | 846 | 72 | | 4.10 | | 3.82 | 8.7 | 0.10 | 4.83 | 5.8 | 28.34 | 2.90 | 17 | 8 |
| **HornZ** | 890 |  | 77 | 460 | | 154.98 | | 1.18 | 2.7 | 31.10 | 0.52 | 0.6 | 3.42 | 0.37 | 3 | 6 |
| **AshE** | 980 |  | 902 | 63 | | 0.48 | | 39.07 | 89.5 | 0.99 | 84.47 | 101.8 | 84.36 | 22.13 | 132 | 11 |
| **AshH** | 980 |  | 915 | 32 | | 1.92 | | 1.24 | 2.8 | 0.91 | 6.93 | 8.3 | 1.61 | 0.76 | 16 | 8 |
| **DroG** | 810 |  | 784 | 45 | | 12.58 | | 68.47 | 156.8 | 45.93 | 2.20 | 2.7 | 61.68 | 4.43 | 4 | 6 |
| **DroP** | 440 |  | 316 | 298 | | 21.10 | | 15.50 | 35.5 | 6.63 | 12.00 | 14.5 | 37.30 | 4.40 | 14 | 6 |
| **SheF** | 780 |  | 625 | 121 | | 11.33 | | 11.99 | 27.5 | - | 3.40 | 4.1 | 115.00 | 13.90 | 11 | 8 |
| **Hyp** | 880 |  | 959 | 3 | | 0.37 | | 82.85 | 189.8 | 0.21 | 0.32 | 0.4 | 79.19 | 1.70 | 9 | 8 |
| **Dol** | 990 |  | 981 | 102 | | 0.02 | | 0.02 | 0 | - | 0.05 | 0.1 | 191.25 | 73.41 | - | 9 |
| **NPK** | - |  | - | - | | 110 | | 180 | 412.3 | - | 70 | 84.3 | - | - | - | - |