**Table S1.** Rice yield components as affected by treatment (CF, 1/2N + M and 1/2N + M + L), crop (early and late rice), and study year. *F*-values are provided for interactions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Panicles (m-2) | Spikelets  panicles-1 | Grain filling  (%) | 1000-grain weight (g) |
| Treatment(T)a |  |  |  |  |
| CF | 304a | 150a | 71.0b | 24.9a |
| 1/2N + M | 280b | 152a | 74.7a | 24.8a |
| 1/2N +M + L | 278b | 146a | 72.2ab | 24.9a |
| Crop(C)b |  |  |  |  |
| Early rice | 334a | 110b | 79.3a | 25.6a |
| Late rice | 240b | 188a | 66.0b | 24.1b |
| Year(Y)c |  |  |  |  |
| 2019 | 286a | 148a | 76.9a | 25.9a |
| 2020 | 289a | 150a | 68.4b | 23.9b |
| *F*-values |  |  |  |  |
| T\*C | 4.14\* | NS | NS | NS |
| T\*Y | NS | NS | NS | NS |
| C\*Y | 153\*\*\* | 15\*\*\* | 82\*\*\* | 10.1\*\* |
| T\*C\*Y | 7.46\*\* | NS | NS | NS |

CF, 1/2N + M and 1/2N + M + L represent chemical fertilization, 50% of chemical N substituted by pig manure and 50% of chemical N substituted by pig manure combined with lime amendment, respectively. Significant interactive effects are indicated by \*(0.01＜*P*≤0.05), \*\* (0.001<*P*≤0.01), or \*\*\*(*P*≤0.001). Values followed by different lowercase letters are significantly different among treatments, crops or years. a Values were averaged across crops and years. b Values were averaged across treatments and years. c Values were averaged across treatments and crops.

A graph with red and blue lines

Description automatically generated

**Figure S1.** Dynamics of the average air temperature during 2019 and 2020.

A graph with red and blue lines

Description automatically generated

**Figure S2.** Dynamics of the precipitation during 2019 and 2020.