Table S1. Meteorological variables during crop growing seasons

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Growing season | Month | Mean air temperature (°C) | Mean relative humidity (%) | Rainfall (mm) | Mean sunshine hours (hrs day−1) |
| Maximum  | Minimum | Maximum | Minimum |
| Winter 2012-13 | November | 29.76 | 17.12 | 92.80 | 54.40 | 10.04 | 6.82 |
| December | 25.40 | 11.75 | 95.50 | 59.50 | 1.83 | 5.30 |
| January | 24.53 | 9.83 | 93.75 | 49.75 | 0.48 | 5.33 |
| February | 28.78 | 12.68 | 91.50 | 45.25 | 2.25 | 7.38 |
| March | 35.55 | 18.85 | 89.50 | 34.50 | 0 | 8.40 |
| Winter 2013-14 | November | 30.14 | 16.60 | 84.80 | 56.00 | 0 | 8.06 |
| December | 26.93 | 12.28 | 84.50 | 58.50 | 0 | 6.05 |
| January | 24.15 | 10.50 | 85.75 | 63.00 | 0 | 5.70 |
| February | 28.08 | 12.83 | 85.25 | 53.25 | 7.13 | 7.50 |
| March | 32.65 | 17.80 | 85.25 | 48.50 | 6.55 | 7.75 |

Table S2. Initial soil condition of experimental site (0-30 cm depth of soil layer)

|  |  |  |  |
| --- | --- | --- | --- |
| Soil parameters | Value | Methodology | Citation |
| Sand (%) | 36.8 | Hydrometer method | Bouyoucos (1962) |
| Silt (%) | 28.0 |
| Clay (%) | 35.2 |
| Textural Class | Clay Loam | Soil textural triangle (USDA) | - |
| pH  | 7.31 | (in 1:2.5:: Soil : Water) | Jackson (1973) |
| EC (dS m−1)  | 0.30 | (in 1:2.5:: Soil : Water) | Jackson (1973) |
| Organic carbon (%) | 0.66 | Wet oxidation method | Walkley and Black (1934) |
| Available N (mg kg−1) | 96.1 | Hot alkaline KMnO4 Method | Subbiah and Asija (1956) |
| Available P (mg kg−1) | 18.6 | 0.5 M NaHCO3 extract | Olsen *et al.* (1954) |
| Available K (mg kg−1) | 83.2 | Neutral 1 N NH4OAc | Hanway and Heidel (1952) |

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