**SUPPLEMENTARY MATERIAL FOR:**

**Table S1** Summary table containing volumes of compounds used to create modified Hoagland’s solutions for each soil nitrogen fertilization treatment. All volumes are expressed as milliliters per liter (mL/L)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Compound** | **0 ppm N** | **35 ppm N** | **70 ppm N** | **105 ppm N** | **140 ppm N** | **210 ppm N** | **280 ppm N** | **350 ppm N** | **630 ppm N** |
| **1 M NH4H2PO4** | 0 | 0.165 | 0.33 | 0.5 | 0.67 | 1 | 1 | 1 | 1 |
| **2 M KNO3** | 0 | 0.335 | 0.67 | 1 | 1.33 | 2 | 2 | 2 | 2 |
| **2 M Ca(NO3)2** | 0 | 0.335 | 0.67 | 1 | 1.33 | 2 | 2 | 2 | 2 |
| **1 M NH4NO3** | 0 | 0.165 | 0.33 | 0.5 | 0.67 | 1 | 3.5 | 0 | 0 |
| **8 M NH4NO3** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.75 | 2 |
| **1 M KH2PO4** | 1 | 0.85 | 0.67 | 0.5 | 0.33 | 0 | 0 | 0 | 0 |
| **1 M KCl** | 3 | 2.45 | 2 | 1.5 | 1 | 0 | 0 | 0 | 0 |
| **1 M CaCO3** | 4 | 3.33 | 2.67 | 2 | 1.33 | 0 | 0 | 0 | 0 |
| **2 M MgSO4** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **10% Fe-EDTA** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Trace elements** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

**Table S2** Summary of the daily growth chamber growing condition program

|  |  |  |
| --- | --- | --- |
| **Time** | **Air temperature (ºC)** | **Light (%)** |
| 09:00 | 21 | 25 |
| 09:45 | 50 |
| 10:30 | 25 | 75 |
| 11:15 | 100 |
| 22:45 | 21 | 75 |
| 23:30 | 50 |
| 00:15 | 17 | 25 |
| 01:00 | 0 |