Table S3. Tests of fixed-effects for site 3 (Second experiment) according to the adequacy of the model and adjusted means (± standard error) for the interaction between sampling date and treatment.

|  |  |  |
| --- | --- | --- |
| Source | F-value | p-value |
| Intercept | 196.53 | <0.0001 |
| Sampling date (SD) | 15.42 | <0.0001 |
| Treatment (T)  | 30.59 | <0.0001 |
| SD\*T | 6.05 | <0.0001 |
| Sampling date | Treatment | Adjusted mean |
| 17/11/2018 | ammonium nitrate | 175.1 ± 32.8 a |
| 20/11/2018 | ammonium nitrate | 120.2 ± 25.7 a |
| 16/11/2018 | ammonium nitrate | 109.8 ± 25.8 ab |
| 20/11/2018 | high urea | 107.9 ± 13.3 ab |
| 20/11/2018 | low urea | 90.9 ± 24.0 abc |
| 16/11/2018 | high urea | 40.8 ± 10.6 bcd |
| 30/11/2018 | high urea | 28.2 ± 10.2 bcde |
| 20/11/2018 | without fertilizer  | 26.9 ± 8.8 bcde |
| 22/11/2018 | ammonium nitrate | 25.0 ± 20.2 bcde |
| 30/11/2018 | low urea |   | 24.8 ± 13.2 cde |
| 26/11/2018 | high urea |   | 22.4 ± 7.7 de |
| 16/11/2018 | low urea |   | 21.0 ± 3.1 de |
| 17/11/2018 | high urea |   | 20.7 ± 3.8 de |
| 26/11/2018 | low urea |   | 20.6 ± 3.7 de |
| 26/11/2018 | ammonium nitrate | 17.3 ± 13.8 de |
| 17/11/2018 | low urea |   | 13.9 ± 4.6 de |
| 16/11/2018 | without fertilizer  | 13.4 ± 2.7 de |
| 22/11/2018 | without fertilizer  | 10.5 ± 2.2 e |
| 22/11/2018 | low urea |   | 10.1 ± 2.4 e |
| 22/11/2018 | high urea |   | 9.3 ± 2.4 e |
| 17/11/2018 | without fertilizer  | 8.4 ± 3.5 e |
| 26/11/2018 | without fertilizer  | 5.0 ± 2.0 e |
| 30/11/2018 | ammonium nitrate | 3.6 ± 2.0 e |
| 30/11/2018 | without fertilizer  | 3.1 ± 1.6 e |

Different letters indicate significant differences among mean values from for the interaction between treatments and gas sampling dates according to ANOVA and Fisher’test at 0.05 level.