**Supplementary Table 1.** Dry biomass yield (t ha-1), as total and partitioned in stems, leaves, and panicles, and N concentration (N, g kg-1) in each part of plant, in relation to the irrigation (I0, I50, I00 = 0, 50, 100% ETc, respectively) and the N level (N0, N60, N120, N180 = 0, 60, 120, 180 kg ha-1, respectively), in sweet sorghum cv. Keller. Average values of all N levels (last column) and average values of all irrigation levels (last row), followed by the same letter, do not significantly differ at *p* ≤ 0.05. Interaction *I* x *N* not significant. Values of standard error are reported.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | **N0** | | | | | | **N60** | | | | | | | | | | | | | | | | | | | | | | | **N120** | | | | | | | | | | | | | | **N180** | | | | | | | | **Avg** | | | | | | | | | | | | | | | | | | | | |
| **Irrigation** | | |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | **Plant** | | | | | | | | | | | | | |  | | | | | | | |  | | | | | | | | | | | | | | | | | | | | |
| **level** | | | t ha-1 | | N (g kg-1) | | | | | | t ha-1 | | | | | | | | | | | N (g kg-1) | | | | | | | | t ha-1 | | | N (g kg-1) | | | | | | | | | | t ha-1 | | | | | | | | N (g kg-1) | | | | **t ha-1** | | | | | | | **N (**g kg-1**)** | | | | | | | | | | | | | |
| **I0** | | | 6.3±0.9 | | | | | *13.9*±1.1 | | | | | | 8.4±0.8 | | | | | | | | | *16.0*±1.2 | | | | | | | | 7.2±0.8 | | | | | | | | *17.2*±2.1 | | | | | | 8.2±1.1 | | | *16.5*±1.3 | | | | | | | | | **7.5 c** | | | | | | | ***15.9 a*** | | | | | | |
| **I50** | | | 20.8±1.9 | | | | | *4.7*±0.8 | | | | | | 21.2±1.1 | | | | | | | | | *7.3*±0.9 | | | | | | | | 21.6±1.3 | | | | | | | | *8.0*±1.2 | | | | | | 20.9±2.3 | | | *9.2*±1.1 | | | | | | | | | **21.1 b** | | | | | | | ***7.3 b*** | | | | | | |
| **I100** | | | 26.6±0.9 | | | | | *4.9*±0.8 | | | | | | 26.7±1.5 | | | | | | | | | *6.6*±0.8 | | | | | | | | 27.7±2.6 | | | | | | | | *5.6*±0.8 | | | | | | 27.5±2.8 | | | *7.2*±0.6 | | | | | | | | | **27.1 a** | | | | | | | ***6.1 b*** | | | | | | |
| **Avg** | | | **17.9 a** | | | | | ***7.8 b*** | | | | | | **18.8 a** | | | | | | | | | ***10.0 a*** | | | | | | | | **18.8 a** | | | | | | | | ***10.3 a*** | | | | | | **18.9 a** | | | ***11.0 a*** | | | | | | | | | **18.7** | | | | | | | ***9.8*** | | | | | | | |
|  | | | **Stems** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | t ha-1 | N (g kg-1) | | | | | | | | | | | t ha-1 | | | | | | | N (g kg-1) | | | | | | | | t ha-1 | | | | | | | N (g kg-1) | | | | | t ha-1 | | | | | | | | | | N (g kg-1) | | | | | | **t ha-1** | | | | | | | **N (**g kg-1**)** | | | | | | | | | | |
| **I0** | | | 4.4±0.4 | *14.8*±2.0 | | | | | | | 5.5±0.5 | | | | | | | | | | | *18.4*±1.5 | | | | | | | | 4.8±0.4 | | | | | | | *21.1*±1.3 | | | | | 5.7±0.2 | | | | | | | | | | *18.0*±2.0 | | | | | | | | **5.1 c** | | | | | | | | ***18.1 a*** | | | | |
| **I50** | | | 16.2±1.2 | *3.2*±0.2 | | | | | | | 16.3±1.8 | | | | | | | | | | | *5.5*±0.6 | | | | | | | | 16.2±1.1 | | | | | | | *6.1*±0.8 | | | | | 16.1±1.1 | | | | | | | | | | *6.7*±1.1 | | | | | | | | **16.2 b** | | | | | | | | ***5.4 b*** | | | | |
| **I100** | | | 21.5±2.1 | *3.6*±0.2 | | | | | | | 21.4±2.1 | | | | | | | | | | | *4.5*±0.3 | | | | | | | | 22.7±1.6 | | | | | | | *3.7*±0.2 | | | | | 21.7±2.2 | | | | | | | | | | *4.9*±0.9 | | | | | | | | **21.8 a** | | | | | | | | ***4.2 b*** | | | | |
| **Avg** | | | **14.0 a** | ***7.2 a*** | | | | | | **14.4 a** | | | | | | | | | | | ***9.5 a*** | | | | | | | **14.6 a** | | | | | | | | ***10.3 a*** | | | | | **14.5 a** | | | | | | | | | | | ***9.9 a*** | | | | | | | | **14.4** | | | | | | | | ***9.2*** | | | | | |
|  | | | **Leaves** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | t ha-1 | N (g kg-1) | | | | | | t ha-1 | | | | | | | | | N (g kg-1) | | | | | | | | | | t ha-1 | | | | | | | | | N (g kg-1) | | | | | t ha-1 | | | | | | | | | N (g kg-1) | | | | | | | **t ha-1** | | | | | | | | **N (**g kg-1**)** | | | | | | | | |
| **I0** | | | 2.0±0.3 | *12.6*±1.9 | | | | | | 2.9±0.2 | | | | | | | | | *13.3*±1.8 | | | | | 2.4±0.2 | | | | | | | | | | | | | | *13.5*±1.9 | | | | | 2.5±0.3 | | | | | | *15.2*±1.9 | | | | | | | **2.5 b** | | | | | | | ***13.7 a*** | | | | | | |
| **I50** | | | 3.9±1.1 | *9.2*±1.1 | | | | | | 4.2±0.3 | | | | | | | | | *12.9*±1.1 | | | | | 5.0±0.6 | | | | | | | | | | | | | | *12.9*±1.2 | | | | | 4.4±0.3 | | | | | | *15.8*±1.9 | | | | | | | **4.4 a** | | | | | | | ***12.7 a*** | | | | | | |
| **I100** | | | 4.5±1.8 | *10.1*±1.2 | | | | | | 4.8±0.3 | | | | | | | | | *14.8*±1.6 | | | | | 4.4±0.3 | | | | | | | | | | | | | | *14.4*±1.2 | | | | | 5.5±0.4 | | | | | | *16.4*±2.1 | | | | | | | **4.8 a** | | | | | | | ***13.9 a*** | | | | | | |
| **Avg** | | | **3.5 a** | ***10.6 b*** | | | | | | | **4.0 a** | | | | | | | | ***13.7 ab*** | | | | | **3.9 a** | | | | | | | | | | | | | | ***13.6 ab*** | | | | | **4.1 a** | | | | | | ***15.8 a*** | | | | | | | **3.9** | | | | | | | ***13.4*** | | | | | | |
|  | | | **Panicles** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | t ha-1 | | | | N (g kg-1) | | | | | t ha-1 | | | | | N (g kg-1) | | | | | | | | | t ha-1 | | | | | | | | | | | | N (g kg-1) | | | | | t ha-1 | | | | | | | | | N (g kg-1) | | | | | | | **t ha-1** | | | | | | | | **N (**g kg-1**)** | | | | | | | | |
| **I0** | | 0 | | | | *-* | | | | | | | 0 | | | | | *-* | | | | | | | | | 0 | | | | | | | | *-* | | | | | 0 | | | | | | | *-* | | | | | | **0 b** | | | | | | | | *-* | | | | | | | | | | | | | | |
| **I50** | | 0.6±0.1 | | | | *12.6*±2.1 | | | | | | | 0.6±0.1 | | | | | *14.1*±1.2 | | | | | | | | | 0.4±0.1 | | | | | | | | *13.0*±1.2 | | | | | 0.4±0.1 | | | | | | | *14.9*±2.1 | | | | | | **0.5 a** | | | | | | | | ***13.7 a*** | | | | | | | |
| **I100** | | 0.5±0.1 | | | | *10.3*±1.5 | | | | | | | 0.5±0.1 | | | | | *11.7*±0.9 | | | | | | | | | 0.5±0.1 | | | | | | | | *10.7*±0.9 | | | | | 0.3±0.1 | | | | | | | *8.6*±0.1 | | | | | | **0.4 a** | | | | | | | | ***10.3 b*** | | | | | | | |
| **Avg** | **0.4 a** | | | | | ***11.5 a*** | | | | | | | | | | **0.4 a** | | | | ***12.9 a*** | | | | | **0.3 a** | | | | | | | | | ***11.9 a*** | | | | | | | | | | **0.2 a** | | | | | | ***11.8 a*** | | | | **0.3** | | | | | | | | | | | | ***12.0*** | | | | | | | | | |