**TABLES**

Table 1 The selected treatments of the DOK field trial for the rain-out study

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| **Treatment** | **Fertilization** | **Pesticide** |
| Biodynamic (D) | Organic fertilizers: composted farm yard manure (FYM) + slurry | No chemical pesticide |
| Conventional (K) | Combination of organic and mineral fertilizers: stacked FYM + mineral fertilizer | Yes |
| Mineral (M) | Mineral fertilizers | Yes |

Table 2 Crop management during the rain-out field experiment in the DOK site

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| **Date** | **Activity** |
| 07/10/2021 | 1. Manure addition in D & K 1. Mineral (P and K) fertilization in M |
| 19/10/2021 | Planting seeds of winter wheat Wiwa |
| 15/11/21-17/11/21 | Installation of rain-out shelter |
| 28/01/2022 | Irrigation of the drought-stressed plots (plot 6, 50, 78, 90, 96, 46) |
| 31/01/2022 | Irrigation of the drought-stressed plots (plot 12, 34, 56, 62, 40, 6, 50, 78, 90) |
| 02/02/2022 | Irrigation of the drought-stressed plots (plot 24) |
| 18/02/2022 | Irrigation of the drought-stressed plots (all plots) |
| 01/03/2022 | Irrigation of the drought-stressed plots (all plots) |
| 16/03/2022 | 1. Liquid manure addition in D 1. N fertilization in K & M |
| 28/03/2022 | Herbicide treatment in K & M |
| 31/03/2022 | Irrigation of the drought plots (all plots) |
| 13/04/2022 | 2. Liquid manure addition in D (4mm) 2. N fertilization in K & M |
| 17/05/2022 | 3. N fertilization in K & M |
| 18/05/2022 | Fungicide treatment |
| 16/06/22-17/06/22 | Setting up nets to prevent feeding damage by plant pests |
| 06/07/22-07/07/22 | Removal of the rain-out shelters |
| 14/07/2022 | Irrigation for re-wetting process |