Table S2. Performed irrigations in combination with the observed phenological stage

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| **Date** | **Phenological stage** | **Irrigation dose  (mm)** |
| 23/09/2019 | Planting of tuber seed |  |
| 24/09/2019 | Planting of tuber seed |  |
| 25/09/2019 |  | 18.9 |
| 03/10/2019 |  | 18.9 |
| 5/10/2019 | Roots emergence/development |  |
| 10/10/2019 |  | 18.9 |
| 12/10/2019 | Beginning of sprouting: Sprouts visible (< 1 mm) / Sprouts upright (<2 mm) |  |
| 12/10/2019 | Growth of the 1st leaf in the 1st knot |  |
| 17/10/2019 |  | 18.9 |
| 23/10/2019 | Development of 2nd secondary shoot |  |
| 4/11/2019 |  | 18.9 |
| 5/11/2019 | Development of 3rd secondary shoot |  |
| 12/11/2019 |  | 18.9 |
| 13/11/2019 | Completion of main shoot growth |  |
| 18/11/2019 |  | 18.9 |
| 19/11/2019 | Completion of growth of secondary shoots |  |
| 26/11/2019 |  | 18.9 |
| 27/11/2019 | Crop cover complete - First flower petals of first inflorescence visible / First open flowers in population |  |
| 3/12/2019 |  | 18.9 |
| 13/12/2019 | Beginning of leaf yellowing |  |
| 20/12/2019 | Leaf yellowing 30% |  |
| 14/01/2020 | Most of the leaves yellowish |  |
| 31/03/2020 | Harvesting |  |
| 1/04/2020 | Harvesting |  |