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README file

Data Set Title: **"Data on the effects of supplemental LED light combined with defoliation on truss-tomato"**

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Data set Contents

The data set consists of:

- 1 excel file in .xlsx format "FoodE_WP4_Defoliation_Light_Tomato_DATASET_20230227_V01.xlsx"
- 1 README file "FoodE_WP4_Defoliation_Light_Tomato_README_20230227_V01.pdf"

Data set Documentation

Abstract

The dataset contains the vegetative, physiological and qualitative data of greenhouse truss-tomato cultivated with a combination of defoliation and supplemental LED light. The defoliation factors consisted of the early removal of the leaves (R) right under the developing truss before the fruit turning stage and a non-removal (NR) during the entire cultivation cycle. The lighting factors

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consisted of an artificial LED lighting treatment with red and blue diodes for 16 h d^{-1} (h 8-00) with an intensity of 180 µmol s^{-1} m^{-2} (RB) and a control cultivated under natural light only (CK).

Content of the files:

- file **FoodE_WP4_Defoliation_Light_Tomato_20230227_V01.xlsx** contains the vegetative, physiological and qualitative data collected on tomato treated with a combination of two light and defoliation regimes.

File specifics

The file is divided into 3 excel sheets, the first one related to vegetative data, second one related to qualitative data, and third one is the legend of variables.

The two treatments applied are reported as LIGHT TREATMENT (RB = LED light treatment with Red and Blue light; CK = natural light only) and DEFOLIATION TREATMENT (R = removal of leaves; NR = non-removal of leaves).

Notes

The dataset contains the underlying data of the following publication:

Appolloni, E.; Paucek, I.; Pennisi, G.; Manfrini, L.; Gabarrell, X.; Gianquinto, G.; Orsini, F. Winter Greenhouse Tomato Cultivation: Matching Leaf Pruning and Supplementary Lighting for Improved Yield and Precocity. *Agronomy* **2023**, *13*, 671. https://doi.org/10.3390/agronomy13030671