

Answer to Editor's comments:

1.- Include hypotheses of research

The hypotheses of the research is stated already as "Therefore, the aim of this study is to evaluate crop water stress index using infrared thermometer technique and to determine the possibilities of use in irrigation schedule in soybean plant under Mediterranean (Antalya) conditions of Turkey." at the end of introduction section of the manuscript. L72-74

2.- Material and methods must be presented by sub-chapter: experimental site (soil, climate), experimental design, evaluations, statistical analysis. More detailed

Materials and Methods section is itemized as sub-chapter as suggested by the editor.

3. Table 1: Add percentage of clay, loam and silt. Texture by USDA or International System??T. Include water availability and irrigation threshold water. Chemical analysis it is not necessary. What is CL, C, L??

Percentage of sand, clay, and loam is included in table 1. CL, and L are written clearly in Table 1. (L-89)

4. Table 2. It must be worked with data of 2015.

Average meteorological data is updated to include 2013 and 2015. we have already use meteorological data of 2015. Long-term meteorological data was given for the information in the study region (L-92).

5.- What is Kpc. ¿Pan coefficient or crop coefficient??

Kpc is plant-pan coefficients. This name is suggested by one of the reviewer.

6.- Why the irrigation criterion for apply 25 + 5 mm

Because it corresponds to about 2 or 3 days irrigation interval when the amount of evaporation taken into consideration.

7. Justify water applied according to $I = A \cdot E_p \cdot K_{pc} \cdot P$. It not considered soil and emitter

The amount of water delivered to the plots is justified using water meters.

8.- It no description of drip irrigation (emitter, flow, spacement)

The pipe diameter, dripper discharge and dripper space are given in page 3 (L98-100).

9. Which are the soil depth for soil moisture determination?

90 cm soil depth is taken into consideration to compute crop water use (L-89).

10. How was calculated the soil water depletion

Soil water depletion is calculated by taking gravimetric soil samples before the experiment started and at harvest. Also soil water content was determined gravimetrically before each irrigation (L-125).

11.- These research was not measured some plant parameters as stomata conductance or stem water potential

Stem water potential is not measured in the experiment. Stomatal conductance is measured but not given in this manuscript since it is out of the manuscript scope.

12.- The relationship between $T_c - T_a (^{\circ}\text{C})$ vs VPD it was very lower ($R^2 = 0.477$)

The relationship is based on the data measured. It seems that r^2 is lower. Similar lower values are published and can be found in literature.

13. It not description of statistical analysis

Statistical analysis is included in the manuscript on page 4 (L140-144).

14. Order results and discussion: Water applied, CWSI, Yield and soil moisture, soil moisture and CWSI, yield and CWSI

Result and Discussion section is itemized as applied water and yield, crop water stress index (CWSI), and yield and seasonal average CWSI

Conclusion:

This manuscript must be improved with more details in material and methods, review the translation to English and improve results and discussion with greater foundations.

Manuscript is improved by making suggestions of editor.