

Original Research Article

Style Definition: Caption

Effect of different levels of irrigation on yield and yield attributes of M marigold crop (*Tagetes erecta* L.)

Comment [E1]: Not italic

Abstract

Agriculture has been indispensable for the subsistence of the people of India in general and farmers in particular. It has naturally been the cornerstone of the Indian economy since time immemorial and agriculture has played a major role in the country's economy since its inception. The research work was done to study the effect of irrigation levels on the yield and growth of winter marigolds. Marigold (*Tagetes erecta* L.) had been taken twice the winter season of 2019-20 and 2020-21. The average flower yield (t/ha) was recorded under the treatment I₁ (12.03 t/ha) was found maximum and it was followed by I₂ (10.51 t/ha), I₃ (9.73 t/ha). The consumptive water use (CWU) was found maximum (26.62 cm) in 100% of ET_c and the lowest CWU was found (21.03 cm) in 80% of ET_c through a drip system of irrigation in the cropping year 2020-21. Similarly, in 2019-20 CWU was found maximum (18.02 cm) in 100% of ET_c, while the lowest CWU was found (14.42 cm) in 80% of ET_c. The water use efficiency was found highest in I₃ (0.77 t/ha/cm) and minimum WUE was found in I₂ (0.525 t/ha/cm) in the cropping year 2019-20. For 2020-21, a maximum WUE was recorded in I₂ (0.497 t/ha/cm) and the minimum WUE in I₃ (0.335 t/ha/cm).

Comment [E2]: ... on the yield and yield attributes of winter marigolds (*Tagetes erecta* L.), during the two winter seasons: 2019-2020 and 2020-2021.as in title.....!?

Introduction

Water has always been an essential component of human existence, and it is available in limited form from natural resources. Our population increase continuously, and they affect the limited natural resource directly. The agriculture sector has used a huge amount of fresh water, so it is very important to utilize natural resources carefully. Different irrigation methods are used in agriculture. Of these, micro-irrigation is one of the best suitable methods for getting high water use efficiency (WUE)- (FAO, 2017).

Comment [E3]: You can use...
1.INTRODUCTION

Comment [E4]: Please respect Instructions for authors, for every citation in the article.
<http://peerreviewcentral.com/page/general-guideline-for-authors>.

References must be listed at the end of the manuscript and numbered in the order that they appear in the text. Every reference referred in the text must also present in the reference list and vice versa. In the text, citations should be indicated by the reference number in brackets [3].

In this case.....(FAO,2017) [1].

India is mostly a farming country, and **A** agriculture employs around 70% of our population and accounts for one-third of our national income. Recently, the share of the agriculture sector in the national **GDP** has risen to 20% (NSO, India, 2021).

Comment [E5]: Please explain the abbreviation.

Micro-irrigation systems (such as the drip irrigation system) ~~that~~ helps to save 27 to 42 per cent of water. It helps to increase **WUE** ~~water use efficiency~~ by reducing soil evaporation and drainage losses. Evaluation of hydraulics of drip irrigation systems helps improve irrigation system design and better control of irrigation water. Its field application efficiency can be up to 90%, compared to 60-80% for sprinklers and 50-60% for surface irrigation- (Gorantiwar *et al.*, 1991).

Comment [E6]: I appreciate that you refer to this indicator!

A large amount of plastic waste is generated from the food items used every day, ~~due~~ due to which there is land pollution, water pollution and air pollution in large quantities. Recycling plastic waste has become very expensive and difficult, but reusing is a good way to reduce plastic waste (Odabasi and Uyukungor, 2016). Almost every farmer in Chhattisgarh has a piece of land called Biyara, used as a threshing floor after harvesting the crop. That piece of land remains unusable for a whole year after some time. Using this land for production without ploughing the field and farming can be done using less water.

Comment [E7]: Instructions! [].

This research has been prepared to look at all the points like the judicious utilization of precious water resources, judicious utilization of reusable plastic bags, saving water, and keeping in mind the Chhattisgarh government's Narva, Garwa, Ghurva and Bari schemes. ~~By in this, which~~ stored rainwater is used for irrigation and solar energy is used to pump that stored water. For a kitchen garden, barren and unfertile land, a portable plant growing system had been developed using waste plastic material to be easily collected in our society. The research work was done to study the effect of irrigation levels on the **yield and growth** of winter marigold. **Marigold (*Tagetes erecta L.*) had been taken twice the winter season of 2019-20 and 2020-21.**

Comment [E9]: Yield and growth? Or
Yield and yield attributes...as it was specified in the article title, too?

The study objectives need to be clear.

Comment [E10]: The information should be used in the following section.

Comment [E11]: Please carefully review the entire section. Please better organise it and present all determined indicators here. Some of them appears only in the Results section.

Materials and Methods

Comment [E12]: 2.MATERIALS AND METHODS
2.1.Study area
.....

Study area

Comment [E13]: If you present here the biological material used, also, the subheading name can be:
Study area and the biological material preparing?!

The experiment was laid out at Dept. of SWE, IGKV, Raipur, India, to cultivate winter *M. marigold* with solar power operated improvised drip system of irrigation. Raipur is situated in the central part of Chhattisgarh. The experimental site is located at Latitude 21°14'6" N and Longitude 81°43'10" E and an altitude of 302 meters above the mean sea level. An area of 261 m² (18 x 14.5 m) of the experiment has been considered for the study. *Pusa-Narangi* variety of *M. marigold* was taken into consideration for cultivation. Seeds were sown in the nursery and 25 days old seedlings were transplanted to the main field, i.e. Reusable flour bags, Conventional grow bags and Plastic bottles.

Comment [E14]: Please explain the abbreviations.

2.2. Weather data of the study area during 2019-20

The weather data recorded during the investigation period from 13th December 2019 to 30th March 2020. The maximum temperature during the experiment varied between 21.3 °C to 35.8 °C, and the minimum temperature varied between 10.8 °C to 22.1 °C. The maximum rainfall during the period of the experiment was 35.8 mm. The average maximum relative humidity for different months varied from 75.9 to 93.6 %, while monthly average minimum relative humidity varied between 27.3 to 56.3 %. The average sunshine values varied from 2.4 to 9.8 hours, maximum wind velocity during the crop period was 4.1 km hr⁻¹ and the minimum was recorded 1.6 km hr⁻¹. (Dept. of Agrometreology, IGKV. 2020)

Comment [E15]: Weather data for the two years should be presented more concise in a Table, where the corresponding values will be found. Below the Table, the source will be mentioned...
...
Dept. of Agrometreology, IGKV. 2020 and please explain the abbreviation IGKV.

Weather data of study area during 2020-21

The weather data recorded during the investigation period from 2nd December 2020 to 26th March 2021. The maximum temperature during the experiment varied between 27.7 °C to 37.9 °C whereas, the minimum temperature varied between 9.2 °C to 20.1 °C. The maximum rainfall during the period of the experiment was 6.2 mm. The average maximum relative humidity for different months varied from 58.3 to 88.7 %, while monthly average minimum relative humidity varied between 14.3 to 40.6 %. The average sunshine values varied from 3.2 to 9.5 hours, maximum wind velocity during the crop period was 4.2 km hr⁻¹ and the minimum was recorded 1.4 km hr⁻¹. (Dept. of Agrometreology, IGKV. 2021)

2.3. Treatment Details

To study the effect of irrigation levels, three different irrigation levels like I₁-100% ET_c, I₂- 90% of ET_c and I₃- 80% of ET_c were selected as the main plot, and three types of plastic grow containers like M₁- Reusable flour bag (RFB), M₂- Conventional grow bag (CGB), M₃- Plastic bottle (PB) were selected as a subplot and having a split-plot design with three replications had been adopted. In each replication, 540 plants of winter **M** marigold crop at 30 cm plant to plant spacing, whereas 50 cm row to row spacing have **s** been planted for experimentation. Irrigation was provided based on (ET_c) using soil and agrometeorological parameters. The prepared field and other details are shown in Table 1.

Plant growing media

All grow containers were placed according to the layout design and filled with soil, **Farm Yard Manure** (FYM) and coco-peat in the ratio of 40:40:20, respectively. Physico-chemical properties of the prepared media were tested in the Dept. of **s** Soil **s** Science **†** Laboratory, IGKV, Raipur. The ratio of prepared media was found better for horticulture crop by Nair and Bharathi (2015), and **Agrawal et al.** (2020).

Improvised Drip Irrigation System

The improvised drip irrigation system (IDI) helps to keep the soil surface dry and reduces water evaporation, thus saving water and improving fertilizer uptake. The dry soil significantly reduces weed development and plant diseases, increases the dripline's lifetime, and protects it from mechanical and environmental damage. Arrangement of lateral lines over the grow containers is very difficult and emitter positions change continuously when lateral lines are displaced. So durable improvisation is necessary for the emitter position and stability of lateral lines. A small (18 mm) hole is made in all grow containers and laterals are placed 5 cm into the grow containers to solve this problem.

A drip irrigation system with a lateral size of 16 mm of 18 m length, 1.3 l h⁻¹ emitters (inline) at 1 kg/cm² at 30 cm spacing (60 number of emitter per lateral)

Comment [E16]: If details are presented in Table 1, here it is not necessary to repeat information.

You simply can say:
The experimental details are shown in Table 1.

Comment [E17]: Please explain first the abbreviation.....

Comment [E18]: V:V:V or W:W:W?

Comment [E19]: At the Reference section is Agrawal, 2020?

Comment [E20]: I suggest:
The improvised drip irrigation (IDI) system

was used to study hydraulic performance. Irrigation water was supplied from the 2,000-litre storage tank, 0.1 hp solar operated pump was used to lift the water stored in the storage tank. The flow rate or discharge of the emitter was collected directly in the measuring cylinder. Discharge of emitters concerning test time was converted into discharge per hour.

Irrigation water requirements

Crop evapotranspiration is the amount of water that is lost through evapotranspiration. The actual evapotranspiration was estimated by multiplying reference evapotranspiration and crop coefficients for the different periods based on crop growth stages. Reference evapotranspiration (ET_0) was calculated using a Penman-Monteith method (Doorenbos and Pruitt, 1977) with the help of meteorological data recorded by the meteorological observatory of Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.). The plants were irrigated daily by drip irrigation systems. The crop coefficient (K_c) for different growth stages of marigold was considered based on the unpublished report and local studies carried out in India.

$$IR = (ET_0 \times K_c) - R \quad (1)$$

$$V = IR \times A \quad (2)$$

$$\text{Irrigation time (hours day}^{-1}\text{)} = \frac{\text{water requirement in litre per day}}{\text{rate of application litre per hr}}$$

IR = net depth of irrigation (mm day⁻¹)

ET_0 = reference Evapotranspiration (mm day⁻¹)

K_c = crop coefficient

R = rainfall (mm per day)

V = net volume of water required by a plant (m³ day⁻¹)

A = area under each plant (m²)

Yield Calculation

Comment [E21]: The abbreviation had to be explained from the first appearance in the text.

Comment [E22]: If the abbreviation has been explained as I recommended before, now, the abbreviation can be used.

Comment [E23]: There were not described the yield attributes as in the article title. Did you determined others indicators, too? From here it seems not.

Marketable and total flower yield tone per hectare was worked out with the help of flower yield per plot by using the following formula:

$$\text{Yield (t/ha)} = \frac{\text{weight of flower in kg/plot} \times 10000}{\text{plot area} \times 1000} \quad \dots(3)$$

Statistical Analysis

The experiment was laid out in a split-plot design (SPD). The data obtained from the various characters under study were analyzed by analyzing variance described by Gomez and Gomez (1984). To compute the mean value of treatments, standard error and critical values were calculated as follow:

1. Standard error of the mean

$$\text{SEm} = \pm V_e \quad \dots (4)$$

2. Critical difference (CD)

$$\text{CD} = \text{SE (d)} \times t \text{ value at 5\% error (df)} \quad \dots (5)$$

3. Result and Discussions

The solar power water distribution system incorporates a special solar pump with a portable 150-watt solar panel. A cost-effective and minimal carbon emission portable plant growing system was developed; no-tillage operations were required to cultivate the marigold crop. The result revealed that farming is possible in barren and infertile land using waste plastic bags for cultivating flower crops helps to reduce water and carbon footprints. With the help of Reusable plastic bags like 5 to 10 kg *Atta* bags, conventional grow bags and 2-litre plastic bottles, a sustainable plant growing system was developed for barren and infertile land.

Comment [E24]: The obtained results need to be presented clearly taking into consideration the indicators described in the Materials and Methods. Please organize the obtained results to be easily understood by the reader.

Irrigation efficiency

Emission uniformity of the system decides the uniform distribution of discharge by each emitter or uniform distribution of water to each plant. The calculated emission uniformity data in a solar power operated improvised drip irrigation at 0.25 kg/cm² operating pressure has been presented in Table 2. The maximum average emission uniformity of 98.35 % was observed. The maximum

Comment [E25]: This paragraph seems to be the last part of your obtained results, or a conclusion of your study.

At the beginning the effectively obtained results should be presented, as values.

application efficiency and distribution efficiency were found at 95.62 % and 98.80 %, respectively, at 0.25 kg per cm² operating pressure.

Nursery preparation of marigold

A nursery for winter marigold (*Tagetes erecta* L.) for this experiment was prepared by Horticulture Department, IGKV, Raipur, in which nursery beds of dimensions 1.0 m x 4.0 m (width x length) was prepared. Healthy seeds were sprinkled in rows on nursery beds prepared by pulverizing soil, mixed with farm yard manure (FYM) at the rate of 250 kg ha⁻¹. When needed, water was given at intervals of a few days. The entire nursery bed was covered with paddy straw for proper germination and to avoid weevils. After germination, all paddy straws were removed and left uncovered. Good quality seedlings were ready after about 28 days and were ready for transplanting

Comment [E26]: Not italic

Effect of different levels of irrigations on crop growth and yield parameters

The following observations were recorded during the crop growth period on five randomly tagged competitive plants from each plot of every replication for studying various characters, i.e. growth character, flowering, and yield and it is shown in Table 3 & 4.

Comment [E27]: This should be integrated in Material and Methods section.

Comment [E28]: ...So....crop growth and yield parameters?

Not only.....yield and yield attributes?

Comment [E29]: Now, Again information specific for materials and Methods section. The parameters and their determination should be in previously section. Here, only results should be written.

Comment [E30]: This can be part of Material and Methods

Plant height (cm) has been determined at 30 days after transplanting (DAT), 60 DAT, and 90 DAT.

This part will be present in Results section.

Plant height (cm) data, for the two experimental years are shown in Table 3.

Plant height (cm)

The average values of marigold plant height (cm) for both years, i.e. 2019-20 and 2020-21, at different crop growth stages after transplanting, as influenced by the different irrigation levels and grow containers, are described herein. For two years, experimented plant height data had been analyzed at 30 days after transplanting (DAT), 60 DAT, and 90 DAT. All data is shown in Table 3.

Comment [E31]: I suggest:

As we can see, there are some differences between treatment variants, for each period of study, with the highest plant height at 90 DAT, for I₁ (79.56 cm). At 30 DAT no significant difference (P>0.05) has been registered, with CD value 0.40, and at 60 DAT showed a significant difference (P<0.05) was noticed. Similarly, no significant difference (P>0.05) was found at 90 DAT of the marigold crop at three different irrigation levels.

...The different values are seen in Table 3 and it is not necessary to write them again.

At 30 DAT, the plant height in treatment I₁ (15.92 cm) is higher than in treatment I₂ (15.80 cm) and I₃ (15.71 cm), respectively. At 60 DAT, the plant height in treatment I₁ (44.50 cm) is higher than in treatment I₂ (44.17 cm) and I₃ (43.02 cm), respectively. At 90 DAT, the plant height in treatment I₁ (79.56 cm) is higher than in treatment I₂ (77.92 cm) and I₃ (76.41 cm), respectively. Plant height (cm) at 30 DAT showed no significant difference (p>0.05) and plant height (cm)

with CD value 0.40 at 60 DAT showed a significant difference ($p < 0.05$). Similarly, no significant difference ($p > 0.05$) was found in plant height (cm) at 90 DAT of the marigold crop at three different irrigation levels.

Number of branches

Data on a number of branches at different growth stages of the marigold plant after transplanting as influenced by the different irrigation levels are shown in Table 3.

A slightly higher number of branches at 30 DAT was recorded under the treatments I_1 (1.33) followed by I_2 (1.32) and I_3 (1.29). At 60 DAT, the maximum number of branches was recorded under the treatment I_1 (7.68) and it was followed by I_2 (7.61) and I_3 (7.39), respectively. Similarly, at 90 DAT higher number of branches was recorded under the treatment I_1 (9.41) and it was followed by I_2 (9.26) and I_3 (9.18), respectively.

Statistical analysis shows a significant difference ($p < 0.05$) in the number of branches with a CD value of 0.015 at 30 DAT. With a CD value of 0.059 at 60 DAT, statistical analysis shows a considerable difference ($p < 0.05$). Similarly, in 90 DAT significant difference ($p < 0.05$) was found with a CD value of 0.19.

Number of days of first budding

The treatment I_1 (46.33) had the number of days of first budding, followed by I_2 (46.57) and I_3 (48.61). Statistical analysis shows a significant difference ($p < 0.05$) in the number of days of first budding of the marigold crop with CD value 1.09 at three different irrigation levels.

Number of days of first flowering

Under the different levels of irrigation, I_1 (55.54) had the highest number of days of first flowering, followed by I_2 (56.50) and I_3 (59.17), respectively. Statistical analysis shows a significant difference ($p < 0.05$) in the number of days of first flowering with CD value 1.674 of the marigold crop at three different irrigation levels.

Comment [E32]: The same abridation I recommend for other indicators, too, with a view to be easier and clearer understand by the reader..

As you can see, for the following indicators I stopped to do comments, but, please to consider all of them as I suggested.

No of picking days

A slightly higher number of picking days were recorded under treatment I₁ (8.98), which was followed by treatments I₂ (8.44) and I₃ (7.89). Statistical analysis reveals a significant difference ($p < 0.05$) in the number of picking days for the marigold crop at three different irrigation levels, with a CD value of 0.406.

The average diameter of the flower (cm)

The treatment I₂ (3.47 cm) produced a considerably larger flower diameter than the treatment I₁ (3.34 cm) and I₃ (3.26 cm), respectively. Statistical analysis reveals a significant difference ($p < 0.05$) in the average diameter of the flower in the marigold crop at three different irrigation levels, with a CD value of 0.121.

Number of flowers per plant

The treatment I₁ (43.16) had the highest number of flowers per plant, followed by I₂ (40.87) and I₃ (38.11), respectively. Statistical analysis shows a significant difference ($p < 0.05$) was found in the number of flowers per plant with a CD value of 0.901 in the marigold crop at three different irrigation levels.

Average yield per plant (gm)

A slightly higher average yield per plant was recorded under the treatment I₁ (175.10 gm) and it was followed by I₂ (158.15 gm) and I₃ (139.46 gm), respectively. Statistical analysis shows a significant difference ($p < 0.05$) on avg. yield per plant (gm) with CD value 2.643 in the marigold crop at three different irrigation levels.

Average yield per plot (kg)

A slightly higher average yield per plot was recorded under the treatment I₁ (3.50 kg) and it was followed by I₂ (3.16 kg) and I₃ (2.79 kg), respectively. Statistical analysis shows that there is a significant difference ($p < 0.05$) was found on Avg. yield per plot (kg) with CD value 0.053 in the marigold crop at three different irrigation levels.

Average flower yield (t/ha)

Significantly avg. flower yield (t/ha) was recorded under the treatment I₁ (11.67 t/ha) was found maximum and it was followed by I₂ (10.61 t/ha) and I₃ (9.28 t/ha). Statistical analysis shows a significant difference ($p < 0.05$) was found on avg. flower yield (t/ha) with CD value 0.175 in the marigold crop at three different irrigation levels.

Consumptive water use and water use efficiency

The consumptive water use (CWU) was found maximum (26.62 cm) in 100% of ET_c and lowest CWU was found (21.03 cm) in 80% of ET_c through a drip system of irrigation in cropping year 2020-21. Similarly, in the year 2019-20 CWU was found maximum (18.02 cm) found in 100% of ET_c, while lowest CWU was found (14.42 cm) in 80% of ET_c. The water use efficiency was found highest in I₃ (0.77 t/ha/cm) and minimum WUE was found in I₂ (0.525 t/ha/cm) in the cropping year 2019-20. For 2020-21, a maximum WUE was recorded in I₂ (0.497 t/ha/cm) and the minimum WUE in I₃ (0.335 t ha⁻¹ cm⁻¹).

4. CONCLUSION

In I₁ (100% ET_c) and I₂ (90% ET_c) irrigation levels, the maximum plant growth was observed, while slightly good plant growth was found in the I₃ (80% ET_c) irrigation level. Due to favourable plant growth conditions and better spectral distribution of root growth, marigold plants in Reusable flour bags (RFB) at different irrigation levels had a favourable influence on morphometric features and other yield parameters.

References

Comment [E33]: The entire section ---- RESULTS AND DISCUSSION need to be very carefully reviewed by the author. Under this format it is not accepted as part of the article.

Comment [E34]: Please respect Instructions for authors.

Please use the order, as well as the citations appear in text. Not in alphabetical order!

Moreover, please respect the imposed writing format.

- Agrawal, R. 2020. Development and performance evaluation of hydroponic systems with different media and irrigation methods. Ph.D. Indira Gandhi Krishi Vishwavidyalaya, Raipur
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Table 1. Details of different treatments

S.no	Treatment details	Notation used
Main plot: Irrigation levels		
1.	100 % of ET_c through drip	I_1
2.	90 % of ET_c through drip	I_2
3.	80 % of ET_c through drip	I_3
Sub-plot: Types of grow containers		
1.	Reusable flour bag	M_1
2.	Conventional grow bag	M_2
3.	Plastic bottle	M_3
Replication : 3		
Crop	Marigold	
Scientific name	<i>Tagetes erecta L.</i>	
Experiment (gross) area	261 m ² (18 × 14.5)	
Row to row spacing	50 cm	
Plant to plant spacing	30 cm	
Design	Split-plot design	
Main plot size	9 m ²	
Sub-plot size	3 m ²	
Each replication size	81 m ²	
Irrigation	Based on ET_c	

Comment [E35]: bold

Comment [E36]: I suggest to explain first the abbreviation.

Comment [E37]: Not italic

Table 2. Irrigation efficiency at 0.25 kg/cm² operating pressure.

Uniformity coefficient	Application efficiency	Distribution efficiency
S_q	0.011	Q_{mini} 0.811 q_m 0.837
q_m	0.837	Q_{avg} 0.837 q_a 0.010
Uc (%)	98.59	E_a (%) 96.86 E_d (%) 98.80

Comment [E38]: Legend:

Below the Table

Comment [E39]: bold

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Table 3. Plant height, number of branches, first budding and flowering of marigold plant at pooled data of 2019-20 and 2020-21.

Levels of irrigation	Plant Height (cm)			Number of branches			First Budding	First Flowering
	30 DAT	60 DAT	90 DAT	30 DAT	60 DAT	90 DAT	day	day
I ₁	15.92	44.50	79.56	56.06	7.68	9.41	46.33	55.54
I ₂	15.80	44.17	78.96	56.27	7.61	9.26	46.57	56.50
I ₃	15.71	43.02	77.89	59.11	7.39	9.18	48.61	59.17
SE (d)	0.073	0.141	0.538	0.005	0.021	0.067	0.382	0.587
SE (m)	0.051	0.1	0.38	0.004	0.015	0.047	0.27	0.415
CD (5%)	0.16	0.401	N/A	0.015	0.059	0.19	1.09	1.674

Comment [E41]: bold

Comment [E42]: bold

Comment [E43]: Even if inside the text there is the explanation, below each Table a Legend is needed.
Legend: I₁ =;

Table 4. A marigold plant's growth and yield attributes at pooled data of 2019-20 and 2020-21.

Levels of irrigation	Picking days	Average diameter of the flower	Number of flowers	Yield	Yield	Yield	Water use efficiency
				per plant	per plot	per plant	
% ET _c		cm		gm	kg/plot	t/ha	t/ha/cm
I ₁	8.98	3.50	43.16	175.10	3.50	11.67	0.54
I ₂	8.44	3.36	40.87	158.15	3.16	10.61	0.55
I ₃	7.89	3.23	38.11	139.46	2.79	9.28	0.55
SE (d)	0.142	0.042	0.316	0.927	0.019	0.061	0.004
SE (m)	0.101	0.03	0.223	0.656	0.013	0.043	0.003
CD (5%)	0.406	0.121	0.901	2.643	0.053	0.175	0.012

Comment [E44]: bold

Comment [E45]: After my knowledge, the WUE indicator is obtained as a ratio between photosynthesis rate/transpiration rate.

Comment [E46]: Grams?

So,g

Comment [E47]: bold

Comment [E48]: Legend: