

Review Form 1.7

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_100597
Title of the Manuscript:	Effect of different irrigation levels and mulching methods on performance of organically cultivated and drip irrigated Papaya.
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The paper entitled “Effect of different irrigation levels and mulching methods on performance of organically cultivated and drip irrigated Papaya.” talks about a very important topic and is in line with the focus of the journal.</p> <p>The research conducted at the Deendayal Upadhyay Centre of Excellence for Organic Farming, CCS HAU, Hisar during 2021-22 explored the impact of varying irrigation levels and mulching methods on the performance of organically cultivated and drip-irrigated papaya. The experiment encompassed nine treatments, consisting of three different irrigation levels (50%, 75%, and 100% of crop water requirement) and three mulching methods.</p> <p>The findings revealed fascinating results regarding the growth and yield of papaya plants. When 100% of the crop water requirement was met, coupled with the application of straw mulch, the plants exhibited impressive attributes such as a height of 238 cm, stem girth of 45.93 cm, crown diameter of 242.67 cm, number of fruits averaging at 42.33, yield per plant amounting to 53.80 kg, and a commendable total yield of 134.50 t ha-1. In contrast, the least favorable outcomes were observed when only 50% of the crop water requirement was met, without any mulching applied.</p> <p>Furthermore, soil moisture analysis indicated that the highest levels were achieved when 100% of the crop water requirement was met in conjunction with the use of plastic mulch. Conversely, the lowest soil moisture levels were observed in the treatment where only 50% of the crop water requirement was met, without the application of any mulching technique.</p> <p>The study also evaluated the irrigation water use efficiency, which proved to be an important aspect of sustainable farming practices. The results indicated that the highest irrigation water use efficiency of 59.02 kg m-3 was recorded when 50% of the crop water requirement was met, alongside straw mulching. Conversely, the lowest irrigation water use efficiency of 42.64 kg m-3 was observed when 100% of the crop water requirement was met without any mulching, under the drip irrigation system.</p> <p>In summary, this comprehensive experiment sheds light on the significant role played by irrigation levels and mulching methods in enhancing the growth, yield, soil moisture, and irrigation water use efficiency of organically cultivated and drip-irrigated papaya. These findings provide valuable insights for farmers and researchers seeking to optimize papaya cultivation techniques in organic farming systems, promoting sustainable and efficient agricultural practices.</p> <p>1. The title is suitable and clear</p>	

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	<p>2. The abstract is comprehensive, well structured, and well written.</p> <p>3. The paper is excellently structured according to the IMRAD method.</p> <p>4. References are sufficient and recent</p> <p>5. The conclusion is too poor regarding the interest of the work; the conclusion must be rewritten. Because the conclusion is intended to help the reader to understand why your research should matter to them after they have finished reading the paper. A conclusion is not merely a summary of your points or a re-statement of your research problem, but a synthesis of key points.</p> <p>Scientifically the manuscript is correct, and uses approved methods and tools</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>Yes, it is suitable</p>	
<p>Optional/General comments</p>	<p>///</p>	

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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