

ReviewForm3

JournalName:	CurrentJournalofAppliedScienceandTechnology
ManuscriptNumber:	Ms_CJAST_130720
TitleoftheManuscript:	InfluenceofOrganicAmendmentsonPricklyPear(Opuntiaficus-indicaL.)ProductivityandEssentialOilAccumulationofinaSemi-Arid Region
Typeof theArticle	OriginalResearchArticle

PART1:Comments

	Reviewer’scomment	Author’s Feedback (Please correct the manuscript and highlight that part inthemanuscript.Itismandatorythatauthorsshouldwritehis/herfeedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript provides valuable insights into the sustainable cultivation of prickly pear, an economically and ecologically important crop, through the use of organic amendments. It highlights the potential of combining cattle manure and vermicompost to improve vegetative growth, yield, and fruit quality while promoting environmentally friendly farming practices. By emphasizing sustainable approaches, the findings contribute to the growing body of knowledge on organic agriculture, aligning with global efforts to reduce chemical inputs in farming. Additionally, the study's results can serve as a reference for future research on optimizing organic amendments and their long-term effects on soil health and crop productivity.	
Is the title of the article suitable? (If not please suggest an alternative title)	<p>The title effectively conveys the core focus of the study, emphasizing the influence of organic amendments on prickly pear productivity and essential oil accumulation in a semi-arid region. However, you could refine it slightly for clarity and flow :</p> <p>"Impact of Organic Amendments on Prickly Pear (Opuntiaficus-indica L.) Productivity and Essential Oil Content in a Semi-Arid Region"</p> <p>This revision simplifies the phrasing and aligns "content" with "accumulation" for conciseness while maintaining the same meaning.</p>	

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<p>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>-Please emphasize the novelty of combining vermicompost and chicken manure in the study objective.</p> <p>-Simplify the description of the experimental setup to focus on key details.</p> <p>-Highlight significant results briefly, focusing on key improvements (e.g., yield, TSS).</p> <p>-For the conclusion of the abstract, please strengthen the conclusion by linking findings to broader implications like sustainability or relevance to arid regions.</p>	
<p>Is the manuscript scientifically correct? Please write here.</p>	<p>Introduction</p> <p>-The introduction provides a broad overview of the importance of prickly pear, but it could better highlight the research gap and objectives earlier to engage the reader more effectively.</p> <p>-Some points about prickly pear's drought tolerance and economic significance are repeated. Consolidate these to streamline the narrative.</p> <p>-For the context, the discussion about Egypt's agricultural challenges and the need for research on prickly pear is relevant but lengthy. Consider summarizing this section while maintaining the key points.</p> <p>-Strengthen the connection between the study's focus (organic fertilizers and irrigation) and its broader implications for sustainability, food security, and desert agriculture.</p> <p>-Rearrange content for better flow. Start with global relevance, then address Egypt's specific challenges, and finally introduce the study's focus.</p> <p>-Eliminate less critical details (e.g., characteristics of chemical fertilizers) to focus on organic fertilizers and irrigation methods as key solutions.</p> <p>Materials and Methods:</p> <p>-Some details, like climate data and treatment design, are repeated unnecessarily. Streamline descriptions to avoid redundancy.</p> <p>-Separate site conditions, plant materials, experimental design, and data collection into distinct, well-labeled subsections for better readability.</p> <p>-Climate information is overly detailed. Focus on relevant aspects like temperature, rainfall, and soil conditions affecting prickly pear growth.</p> <p>-Simplify the explanation of treatment combinations and doses. Clearly outline treatments without repeating details.</p> <p>-Group measured parameters (vegetative growth, fruit yield, and fruit quality) to avoid listing them individually.</p> <p>-The description of statistical methods is clear but could be shortened. Emphasize the use of ANOVA and Duncan's test without unnecessary citations.</p>	

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	<p>-Refertotablesconsistentlywithoutrepeatingtheir contentsintext.</p> <p>-Pleasethefigure1 ,2,3and4areunclearandnotwellorganized!</p> <p>Results:</p> <p>-Pleasereorganizethefigures!allthefigureswerenotwellpresented!</p> <p>-Alltheresultsintablewerewithoutstandard deviation</p> <p>Discussion:</p> <p>- The discussion thoroughlyaddresses the impact of organic fertilizers on soil, plant growth, andyieldparameters.Considersummarizingrepetitivedetailstoenhance readabilityandfocus on key findings.</p> <p>-Thestatisticalimprovementsacrossseasonsarewell-highlighted.ExpandingonwhyT5 consistently performs best could provide stronger insights into its mechanisms.</p> <p>-The discussion connects results to existing research effectively. Adding practical recommendationsforfarmersorindustriescouldmakethefindingsmoreactionable.</p> <p>-Thecomparisonsamongtreatmentsaredetailed,buttheemphasisonT5mightovershadow othertreatments'significant results.Highlighting theirunique benefitscouldprovidea more balanced view.</p> <p>Conclusion:</p> <p>-Pleaseremovetheconclusionwithhighlightingthe mainfindingsandnumericvaluesof results.</p>	
<p>Arethereferencessufficientandrecent?Ifyouhave suggestions of additional references, please mention them in the review form.</p>	<p>-The inclusionofnumerousreferencesishelpfulbutcouldbedistracting.Limit citationsinthe introduction to the most critical sources.</p>	

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Isthelanguage/Englishqualityofthearticlesuitable for scholarly communications?	yes	
Optional/Generalcomments	<div>GeneralComments:</div> <div>Introduction:</div> <div>-The introduction effectively sets the context and highlights the significance of prickly pear cultivation in semi-arid regions. It could benefit fromclearer connectionsbetween organic amendments and their specific benefits.</div> <div>-Addingabriefmentionofgapsinpreviousresearchwould strengthen its relevance.</div> <div>-Ensurethatobjectivesareconciselystatedto alignwiththestudy'sfocus.</div> <div>MaterialsandMethods:</div> <div>-Themethodologyiswell-structuredandprovidesdetaileddescriptions ofthe experimental design.</div> <div>-Includingmoredetailsabouttherationaleforselectingspecifictreatmentswould improve clarity.</div> <div>-Ensureconsistencyindescribinganalyticalmethodstofacilitate reproducibility.</div> <div>-Considerhighlightingthetimelineforeachgrowingseasoninmoredetail.</div> <div>Resultsand Discussion:</div> <div>-Theresultsareclearlypresentedwithlogicalinterpretationslinkingthemtothe study's objectives.</div> <div>-Addingcomparisonswithpreviousstudiescouldprovidebroaderscientificrelevance.</div> <div>-Ensurebalanceddiscussionbyaddressinganyunexpectedfindingsorlimitations.</div> <div>-Focusonhighlightingthepacticalimplicationsofyour findingsfororganicfarming practices.</div> <div>Conclusion:</div> <div>-The conclusion summarizes key findings effectively and emphasizes their importance for sustainable agriculture.</div> <div>-Including a sentence on potential economic or environmental benefits would enhance its impact.</div> <div>-Avoidrepeatingdetaileddresults;instead,focusonbroader implications.</div> <div>-Suggestingspecificavenuesforfutureresearchstrengthensthemanuscript's contribution.</div>	

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?	(If yes. Kindly please write down the ethical issues here in details)	

Reviewer Details:

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