

Review Form 3

Journal Name:	Asian Journal of Advances in Agricultural Research
Manuscript Number:	Ms_AJAAR_121493
Title of the Manuscript:	Effects of Fish guano and Abscisic acid on Leaf area index, Stomatal conductance, Photosynthetic active radiation and Relative water content of Grain Amaranth (Amaranthus cruentus L.) under moisture stress conditions
Type of the Article	

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript is important for the scientific community as it addresses the critical issue of enhancing crop resilience under moisture stress conditions, which is increasingly relevant due to climate change. The study provides valuable insights into the use of fish guano and abscisic acid to improve the physiological performance of grain amaranth, a crop with significant nutritional benefits. The findings could have practical applications in improving agricultural practices and crop management in drought-prone areas. I appreciate the thorough experimental design and comprehensive data analysis presented in this manuscript.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title of an academic article is crucial as it sets the first impression and provides a snapshot of the study's content. The current title of the article, is quite comprehensive but also lengthy and somewhat cumbersome. The title is quite long, which can make it difficult to read and remember. The inclusion of multiple variables and conditions makes the title somewhat complex.</p> <p>Suggested Alternative Titles</p> <ol style="list-style-type: none"> 1. Impact of Fish Guano and Abscisic Acid on Physiological Traits of Grain Amaranth under Drought Stress 2. Physiological Responses of Grain Amaranth to Fish Guano and Abscisic Acid under Moisture Stress <p>while the original title is informative, a more concise and focused title can enhance readability and impact. The suggested alternatives aim to achieve this balance while maintaining scientific accuracy and relevance.</p>	
<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>The abstract provides a detailed overview of the study, including the objectives, methodology, key findings, and conclusions. However, it could benefit from some revisions to improve clarity, conciseness, and readability.</p> <p>Suggestions for Improvement</p> <ol style="list-style-type: none"> 1. Clarity and Readability: The abstract contains some complex sentences that could be simplified for better readability. Additionally, some information could be more clearly presented. 2. Conciseness: The abstract is somewhat lengthy and includes details that might be better suited for the main text. Focus on the most critical points to keep it concise. <p>Justification for Changes</p> <ul style="list-style-type: none"> • Clarity and Readability: Simplifying sentences and improving the flow of information makes the abstract easier to read. • Conciseness: Removing redundant details and focusing on the most critical points helps keep the abstract concise. • Structure: Clearly delineating the background, methods, results, and conclusions enhances the logical flow and readability. <p>These changes will make the abstract more accessible while retaining all essential information.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The manuscript is well-structured with clear subsections that guide the reader through the study. The main sections include Introduction, Materials and Methods, Results, and Discussion, which are standard for scientific papers. Each section is further divided into relevant subsections, such as Experimental Sites, Treatments and Experimental Design, Preparation and Application of Materials, Cultural Practices, Data Collection, and Data Analysis. This organization enhances readability and allows for a logical flow of information.</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required</p>	<p>The manuscript is scientifically robust and technically sound for several reasons:</p> <p>Experimental Design: The use of a split-plot design with three replications ensures that the study is statistically valid and that the results are reliable.</p> <p>Comprehensive Data Collection: The study measures multiple physiological parameters</p>	

Review Form 3

for this part.	(LAI, SC, PAR, RWC) under different conditions, providing a holistic view of the plant's response to treatments. Statistical Analysis: The use of ANOVA and the Student Newman-Keuls test for analyzing the data ensures that the results are statistically significant and not due to random variation.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references cited in the manuscript are relevant and support the study's context and findings. However, it would be beneficial to include more recent studies to provide an updated perspective on the topic.	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language quality of the article is generally suitable for scholarly communication. However, there are some grammatical errors and awkward phrasings that could be improved for better readability. For example: "Stress was placed in the main plots while FG and ABA rates were placed in the subplots." could be rephrased to "Moisture stress was applied in the main plots, while FG and ABA treatments were applied in the subplots."	
Optional/General comments		

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>	

Reviewer Details:

Name:	Muhammad Ikram
Department, University & Country	University of Sargodha, Pakistan