

Review Form 3

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_123904
Title of the Manuscript:	Innovative Strategies for Controlling Sorghum Shoot Fly: Seed Treatments and Botanical Insecticides
Type of the Article	Original Research Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
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.	This manuscript is significant for the scientific community as it addresses a critical challenge in sorghum production, namely the control of the sorghum shoot fly (<i>Atherigona soccata</i>), a pest that can cause substantial crop losses. By evaluating the efficacy of various seed treatments and botanical insecticides, the study contributes to the development of sustainable pest management strategies that reduce reliance on harmful chemical pesticides. The manuscript's findings, especially the effectiveness of combining Thiamethoxam with neem oil, offer valuable insights into environmentally friendly and cost-effective approaches to pest control. I appreciate this manuscript for its practical applications in improving crop yields while promoting eco-friendly agricultural practices.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes, the title "Innovative Strategies for Controlling Sorghum Shoot Fly: Seed Treatments and Botanical Insecticides" is suitable for the article. It clearly conveys the main focus of the research, which is to explore new methods for controlling the sorghum shoot fly using both seed treatments and botanical insecticides. The title is specific, informative, and highlights the innovative approach of the study, making it appropriate for the content of the manuscript.	
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.	The abstract of the article is generally comprehensive as it provides a clear overview of the study's aim, methodology, key findings, and conclusion. It outlines the treatments used, the effects on sorghum shoot fly control, plant vigor, yield, and the Incremental Cost-Benefit Ratio (ICBR). However, there are a few suggestions for improvement: 1. Clarification of Results: The abstract mentions specific values for plant height and yield but could also briefly highlight the significant reductions in shoot fly infestation and dead heart formation for clarity. Suggested addition: A reduction in shoot fly infestation by up to 50% was observed with the most effective treatment, emphasizing the potential of integrating these approaches into sustainable pest management practices. This would provide a clearer summary of the pest control impact, making the abstract more impactful.	
Are subsections and structure of the manuscript appropriate?	Yes, the subsections and structure of the manuscript are appropriate and follow a logical flow that is standard for scientific research articles.	
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 for this part.	This manuscript is scientifically robust and technically sound due to its well-designed field experiment based on a Randomized Block Design (RBD) with appropriate replication and controls, ensuring the reliability of the results. The study employs a range of treatments, including chemical and botanical options, and evaluates them using multiple parameters such as shoot fly infestation, plant vigor, and yield, making the conclusions comprehensive and well-supported. Additionally, the statistical analysis is rigorous, providing confidence in the significance of the findings. The combination of practical methodologies and in-depth analysis makes the research valuable and credible for the scientific community.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :	The references in the manuscript are generally sufficient and cover relevant literature related to sorghum, shoot fly management, and the use of seed treatments and botanical insecticides. However, many of the references appear to be slightly dated, with several sources from early 2000s and even the 1990s. While these foundational studies are important, incorporating more recent research from the past 5-10 years could strengthen the paper by reflecting the latest advancements in pest management strategies and plant protection. Suggestions for improvement: Recent references: Consider including newer studies (2015 onwards) that discuss the advancements in botanical insecticides, integrated pest management (IPM), or novel sorghum pest control techniques. These could provide more context about current trends in sustainable	

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	<p>agriculture and modern approaches to pest control. Possible references to include: -A review on the recent developments in botanical insecticides in pest management. - Recent studies on the use of biological controls or genetic methods in sorghum shoot fly management. This would help ensure the manuscript is aligned with the latest scientific developments and practices.</p>	
<p><u>Minor</u> REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the article are generally suitable for scholarly communication.</p>	
<p><u>Optional/General</u> comments</p>	<p>This manuscript addresses an important issue in sorghum cultivation and provides valuable insights into sustainable pest management practices. The study's findings are practical, well-supported, and relevant for both researchers and farmers. With minor improvements in language and updated references, the manuscript will make a strong contribution to the field of agricultural pest management.</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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p> <p>no</p>	<p>done</p>

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