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| Journal Name: | [**Journal of Advances in Biology & Biotechnology**](https://journaljabb.com/index.php/JABB) |
| Manuscript Number: | **Ms\_JABB\_136669** |
| Title of the Manuscript: | **Weather-Driven Population Trends of Helicoverpa armigera (Hubner) in Chickpea Ecosystems** |
| Type of the Article | **Original Research Article** |

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) Author(s) hereby declares that limited use of ChatGPT AI was used for improving grammar and clarity. |
| **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.** | Particularly in light of sustainable pulse crop production and climate-informed pest forecasting, I find great value in this work for the scientific community. Using a two-year field dataset under natural infestation conditions, the study offers strong empirical data relating seasonal occurrence of *Helicoverpa armigera* to particular meteorological variables. Its use of statistical and predictive modeling, particularly the comparison of Exponential and Gompertz functions, specifically fits very nicely with present worldwide attempts to include ecological  modeling into pest control tactics under different environmental situations. Significantly, the results help to close knowledge gaps in localized pest behavior and have application for early warning systems and decision-making processes in chickpea agroecosystems. | The work is related with current pest management scenario. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes. The title is quite nebulous and does not capture the:   1. Seasonal and phenolic specificity of the incidence investigated 2. Framework for predictive modeling (including use of exponential and Gompertz models) 3. Scientific worth of including climatic factors into pest prediction   As stressed in ecological modeling literature, the study combines climate-pest interactions, regression modeling, and seasonal dynamics. | Title is ok |
| **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.** | While the abstract includes relevant findings, it lacks several essential components for a scientifically comprehensive abstract in the context of climate-pest ecology.  Phrases "weather-driven" are not clear; instead, for scientific clarity use "climatic factors," or "meteorological variables." Excess repetition of broad trends-that is, stating the same weeks several times—could be summed up to improve concision. | Yes abstract is up to date. |
| **Is the manuscript scientifically, correct? Please write here.** | Yes.The work is scientifically accurate, featuring a well-organized experimental approach, appropriate statistical application, and  biologically valid interpretations. The data collecting and analysis methods adhere to established entomological field standards and widely recognized ecological modeling frameworks in climate-insect population research. | Manuscript scientifically correct |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The existing references are adequate for a national-scale observational study; however, the inclusion of global, mechanistic, and modeling-based sources would:   * Enhance the scientific rationale for the observed trends. * Enhance the climatic analysis * Enhance the significance of international integrated pest management and climate adaptation research.   Suggested Additional References, here are highly relevant references that should be cited to strengthen the manuscript's depth and global contextual grounding:  **Global and Theoretical Context:**  Damos, P. T., Stoeckli, S. C., & Rigas, A. (2018)  Modeling Insect Phenology, Demography, and Circadian Rhythms in Variable Environments. Frontiers in Physiology. [DOI: 10.3389/978-2-88945-489-1]   * + Essential for connecting pest modeling to climatic variation.   Björkman, C., & Niemelä, P. (Eds.). (2015) Climate Change and Insect Pests. CABI.   * + Chapters by Battisti et al. and Kalinkat et al. discuss climate-driven pest shifts and trophic disruption. | All references are related and recent. |
| **Is the language/English quality of the article suitable for scholarly communications?** | Yes. The language quality meets scientific standards, and the manuscript is accessible according to scholarly criteria. It is advisable to implement minor editorial revisions to improve fluency and clarity. | Language is ok |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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)* | No issue |