

Review Form 3

Journal Name:	Journal of Scientific Research and Reports
Manuscript Number:	Ms_JSRR_122856
Title of the Manuscript:	Herbicidal and nitrogen efficacy on weed management in wheat fields of Eastern Uttar Pradesh
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)
<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 crucial for the scientific community as it addresses the dual challenge of weed management and optimizing nitrogen use in wheat fields, a staple crop in Eastern Uttar Pradesh. The research provides valuable insights into how herbicidal treatments and nitrogen application can be strategically used to enhance wheat productivity while minimizing the adverse effects of weeds. This study is particularly important for developing sustainable agricultural practices in regions facing intense agricultural pressures. I appreciate this manuscript for its practical relevance and its potential to contribute to improving wheat yields and resource efficiency in a key agricultural region.</p>	
<p>Optional/General comments</p>	<p>Introduction</p> <ol style="list-style-type: none"> The introduction is more from the results of other research studies while it should be consisting botanical description, crop importance in the globe, nutritional analysis of the crop, the introduction of chemical/herbicide/pesticide/fertilizer used, value added by these to the crop, recent approaches of herbicides. Add a few more latest references after 2020. Part revealed that increasing the level of nitrogen from 0 to 45, 45 to 90 and 90 to 135 kg ha⁻¹ increased the nitrogen uptake by 28.20, 14.90, 7.70%, phosphorus by 26.20, 13.60, 8.50 % over the preceding levels. It was found that both the quantity of inputs and the timing of their application significantly affected weed presence and density in the field. Increasing nitrogen fertilization from 120 to 150 kg N ha⁻¹ improved grain production and straw yield by enhancing dry matter accumulation, increasing the number of tillers, and boosting nutrient uptake- more suitable for the discussion part not for introduction. <p>Material methods</p> <ol style="list-style-type: none"> Formula [(DWC – DWT)/DWC] *100 can written as: $\frac{DWC - DWT}{DWC} \times 100$ <p>Overall</p> <ol style="list-style-type: none"> Expand all abbreviations eg. DEE In tables, add DMRT for statistical analysis. See below comment regarding the abstract Add Acknowledgement, Competing interests 	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>YES</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>Clarify the Objective: The abstract mentions the study was conducted to evaluate the effects of nitrogen levels and herbicides on weed populations and wheat production, but it doesn't explicitly state the primary objective or hypothesis. Consider adding a sentence at the beginning that clearly defines the purpose of the study.</p> <p>Include Key Findings on Wheat Production: While the abstract discusses the impact on weed populations, it only briefly mentions the effect on wheat production. Since wheat production is a major focus, it would be helpful to include specific results or data related to wheat yield or quality.</p> <p>Specify the Experimental Design: The abstract lacks details about the experimental design, such as the number of treatments, replicates, or the statistical methods used. A brief mention of these aspects could strengthen the abstract's credibility.</p> <p>Streamline the Language: Some sentences could be more concise. For example, the sentence "Higher weed dry weight and population results in lower plant nutrient uptake and lower dry matter of crop plant and yield" could be rephrased for clarity.</p> <p>Conclusion or Implications: The abstract ends somewhat abruptly. Consider adding a concluding sentence that summarizes the implications of the findings or suggests potential applications of the results.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>YES</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 for this part.</p>	<p>Check the grammar according to the experiment it should be in past</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Add the latest references and make the correct reference style as per journal guideline</p>	
<p><u>Minor</u> REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>Yes</p>	

PART 2:

	<p>Reviewer's comment</p>	<p>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>
<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>	

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Reviewer Details:

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