Review Form 1.7

Journal Name:	**International Journal of Plant & Soil Science**
Manuscript Number:	**Ms_IJPSS_109271**
Title of the Manuscript:	**Stability analysis in wheat (Triticum aestivum L.) genotypes under different Environmental Conditions**
Type of the Article	

Review Form 1.7

PART 1: Review Comments

	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)*
Compulsory REVISION comments 1. **Is the manuscript important for scientific community?** (Please write few sentences on this manuscript) 2. **Is the title of the article suitable?** (If not please suggest an alternative title) 3. **Is the abstract of the article comprehensive?** 4. **Are subsections and structure of the manuscript appropriate?** 5. **Do you think the manuscript is scientifically correct?** 6. **Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	The relevance of studying and improving different genotypes of winter wheat lies in the fact that this crop is of great importance for global production of bread and other food products. Winter wheat is one of the most widespread and important cereal crops in the world, accounting for about 30% of global grain production. It is also the main crop for bread production in Ukraine, where it covers about 80% of the sown area of cereals. However, changing climatic conditions and the spread of new pests and diseases threaten the production of winter wheat. Therefore, continuous improvement of winter wheat genotypes is necessary to ensure stable production of this crop and ensure food security. Studying winter wheat genotypes allows to determine their suitability for different ecological conditions and select the most adapted and stable varieties for each region. It also helps to identify new varieties with high yield potential and other useful traits that can be used in further breeding. In addition, improving winter wheat genotypes is important for ensuring stable production in the face of climate change. New varieties with greater resistance to stress factors such as drought, cold and diseases can help reduce yield losses and ensure production stability. Thus, studying and improving different genotypes of winter wheat is crucial for ensuring stable and efficient production of this crop. This will contribute to food security and the development of agriculture as an economic sector. This article focuses on these issues and has significant practical value. The relevance of studying and improving different genotypes of winter wheat lies in the fact that this crop is of great importance for global production of bread and other food products. Winter wheat is one of the most widespread and important cereal crops in the world, accounting for about 30% of global grain production. It is also the main crop for bread production in Ukraine, where it covers about 80% of the sown area of cereals. However, changing climatic conditions and the spread of new pests and diseases threaten the production of winter wheat. Therefore, continuous improvement of winter wheat genotypes is necessary to ensure stable production of this crop and ensure food security. Studying winter wheat genotypes allows us to determine their suitability for different ecological conditions and select the most adapted and stable varieties for each region. It also helps to identify new varieties with high yield potential and other useful traits that can be used in further breeding. In addition, improving winter wheat genotypes is important for ensuring stable production in the face of climate change. New varieties with greater resistance to stress factors such as drought, cold, and diseases can help reduce yield losses and ensure production stability. Thus, studying and improving different genotypes of winter wheat is crucial for ensuring stable and efficient production of this crop. This will contribute to food security and the development of agriculture as an economic sector. This article focuses on these issues and has significant practical value: - The current global production volume should be mentioned in the introduction. - References should be included in the first (Wheat stands as ...) and fourth (One of the primary goals ...) paragraphs. - The methodology should describe the weather conditions during the years of cultivation. - What criteria were used to determine the sowing dates (soil temperature, recommended sowing dates, or other factors)? Why were 8th, 18th, and 28th chosen specifically? - The care for crops during the vegetation period should be described.	

	- The methodology for determining the studied morphological traits should be described. - Recent literature sources (within the last 5 years) should be given preference. - The conclusion should recommend the effective use of the identified stable genotypes in different regions, even though the study was conducted in one specific soil and climate conditions. Can the results be recommended for all climate zones or only for the zone where the study was conducted? - The conclusion does not show the difference between sowing dates - how exactly did the sowing dates affect the final results of the study? It is advisable for the author to recommend including a larger number of repetitions in future studies, which will allow for a more accurate sample and provide more precise recommendations. The materials of the article are presented in a scientific style, using accessible language, consistently, concisely, and correctly. This article is written on a relevant topic, with an author's approach to studying the specified issues, and meets the requirements and general problematics of the International Journal of Plant & Soil Science. After addressing the mentioned issues, I can recommend the article "Stability analysis in wheat (Triticum aestivum L.) genotypes under different Environmental Conditions" for publication in the International Journal of Plant & Soil Science.	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**		
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?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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