

Review Form 1.6

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| Journal Name: | International Journal of Environment and Climate Change |
| Manuscript Number: | Ms_IJECC_85899 |
| Title of the Manuscript: | Prediction of varietal replacement in wheat (<i>Triticum aestivum</i> L. em. Thell.) |
| Type of the Article | |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journalijecc.com/index.php/IJECC/editorial-policy>)

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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) |
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| Compulsory REVISION comments | <p>A mandatory major revision is generated by correcting language mistakes. I mentioned some of them in the reviewed manuscript, but there are many others that I did not indicate because it is unclear whether the article will be written in English UK, USA or India. Mandatory revision for publication consists of:</p> <p>1) Text control and correction using the facilities of the text editor used and/or, for example, the Grammarly free version program;</p> <p>2) Clearer writing and explanation of the CR and NCR formula (the formula is written with the equation editor but in two pieces, I think it should be written as an individual formula in a row, not in the text, it would be better.</p> <p>3) A requirement for publication, but only with the consent of the publisher, is to enrich the list of references (the authors give only 6 titles), which leads to better documentation and more extensive comments on the research topic regarding the current stage reached. The literature on this topic is extremely rich (few examples in Additional references, [1-5]). There may be interesting research that has touched on the problem in the same area, possibly with other plants, comparing the results with those of other authors, but also with results obtained in other geographical areas.</p> <p>Additional references</p> <p>[1] Salah El-Hendawy, Nasser Al-Suhaibani, Muhammad Mubusha, Muhammad Usman Tahir, Samy Marey, Yahya Refay, ElKamil Tola, Combining Hyperspectral Reflectance and Multivariate Regression Models to Estimate Plant Biomass of Advanced Spring Wheat Lines in Diverse Phenological Stages under Salinity Conditions, Appl. Sci. 2022, 12, 1983. https://doi.org/10.3390/app12041983</p> <p>[2] Samira El Hanafi, Najib Bendaou, Zakaria Kehel, Miguel Sanchez-Garcia, Wuletaw Tadesse, Phenotypic evaluation of elite spring bread wheat genotypes for hybrid potential traits, Euphytica (2020) 216:168</p> <p>[3] Madiha Islam, Abdullah, Bibi Zubaida, Nageena Amin, Rashid Iqbal Khan, Noshin Shafqat, Rabia Masood, Shahid Waseem, Jibrán Tahir, Ibrar Ahmed, Muhammad Naeem, Habib Ahmad, Agro-Morphological, Yield, and Genotyping-by Sequencing Data of Selected Wheat (Triticum aestivum) Germplasm From Pakistan, Frontiers in Genetics, vol. 12, 2021</p> <p>[4] Mohtasham MOHAMMADI, Rahmatollah KARIMIZADEH, Naser SABAGHNIA, Mohammad Kazem SHEFAZADEH, GENOTYPE x ENVIRONMENT INTERACTION AND YIELD STABILITY ANALYSIS OF NEW IMPROVED BREAD WHEAT GENOTYPES, Turkish Journal of Field Crops, 2012, 17(1): 67-73</p> <p>[5] Mukti Ram Poudel, Suryakant Ghimire, Madhav Prasad Pandey, Krishna Hari Dhakal, Dhruva Bahadur Thapa, Hema Kumari Poudel, Evaluation of Wheat Genotypes under Irrigated, Heat Stress and Drought Conditions, Journal of Biology and Today's World, 2020; 9(1): 212</p> | |
| Minor REVISION comments | - | |

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| <p>Optional/General comments</p> | <p>The general theme approached by the authors is widely debated in the literature (selection of domestic plant varieties for certain geographical locations, as well as the treatments used in the respective agricultural crTherefore, with proper revisions, the article can be published, having the necessary substance and important applications, but whose practical use must be anticipated.ops). Originality is acquired through the geographical location of the experiments performed.</p> <p>In order to improve the quality of the work, it is recommended:</p> <p>1) introduction of photographs with the locations of the experiments in various stages of plant development, see for example [1], [2], [3];</p> <p>2) the introduction of minimum geographical information by locating on a map (in a GIS program, possibly) the geographical area to which the authors refer and for which the results are intended, see for example [1];</p> <p>3) A chapter of conclusions can be introduced which, in addition to the firm recommendation of the type of plants chosen for exploitation, can give future directions for further research: continuing the standard procedure for selecting plant types in large geographical areas with mapping results up to the level of the administrative area or even higher, estimating the economic effects of the results indicated to farmers, estimating the effects of generalizing the results indicated to farmers for consumers, so introducing in research the economic and bio-qualitative aspect of generalizing plants. Last but not least, the effects on plant diversity must be taken into account.</p> | |
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PART 2:

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| | <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> | |

Reviewer Details:

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| <p>Name:</p> | <p>Cardei Petru</p> |
| <p>Department, University & Country</p> | <p>The National Institute of Research – Development for Machines and Installations Designed for Agriculture and Food Industry – INMA Bucharest, Romania</p> |