Review Form 1.7

Journal Name:	**International Journal of Environment and Climate Change**
Manuscript Number:	**Ms_IJECC_108365**
Title of the Manuscript:	**Assessment of Yield Criteria in Bread Wheat through Correlation and Path Analysis.**
Type of the Article	**Original Research 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 manuscript important for scientific community** The investigation was conducted during rabi season of 2022-23 at Chamelti Agriculture Farm, MS Swaminathan School of Agriculture, Shoolini University, Solan, Himachal Pradesh. The experiment consisted of 75 genotypes of wheat with three check varieties viz., RAJ 3765, PBW 343 and HP 1633. The experimental field was divided into three blocks of equal size. Twenty-four entries including checks were accommodated in each block. Results indicated that grain yield per plant(g) have a positive and highly significant correlation with biological yield per plant (g), number of productive tillers per plant, harvest index (%), number of grains per spike. Path analysis identified biological yield per plant and number of productive tillers per plant as important direct components for grain yield per plant (g). As per the analysis of variance, variations due to blocks and checks were found to be significant for all the traits. Ten clusters were formed according to Non-hierarchical Euclidean cluster analysis and the maximum inter cluster was recorded between cluster 6 and 8 (86.478), followed by cluster 4 and 8 (83.180). Early maturing genotypes were contained in cluster 1 whereas cluster 4 contained the genotypes which gave the maximus grain yield per plant. High yielding genotypes identified were: DBW- 187, DBW-303, DBW-222, HD-3226 and HS-240. The identified superior can be further utilized in wheat improvement breeding programs. **The title of the article suitable** **The abstract of the article comprehensive** **Subsections and structure of the manuscript appropriate** **The manuscript is scientifically correct.** **References are sufficient and recent**	
Minor REVISION comments 1. **Is language/English quality of the article suitable for scholarly communications?**	English quality of the article is suitable for scholarly communications.	
Optional/General comments	Here, it is necessary to conduct studies to analyze the variance, and find the relationships between the different characteristics, by analyzing correlation coefficient… An estimate of experimental error variance, which was used to compute standard error and least significant difference, was obtained using following format for analysis of variance of the checks yield. (confuse) The above discussion revealed that all the highly significant estimates of correlation coefficient observed among the important yield components. (confuse) Table 1 : Estimates of simple correlation coefficients	

	way (Baye et al., 2020). This suggests that selection would be quite efficient in improving yield and these three yield (which ones) components in wheat, MATERIALS AND METHODS Which software was used for the analysis??= “Results indicated that grain yield per plant(g) have a positive and highly significant correlation with biological yield per plant (g), number of productive tillers per plant, harvest index (%), number of grains per spike” This is not correspond to M&M.	

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)*	

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