

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_131101
Title of the Manuscript:	Studies on Analysis of Correlation coefficient and Path Coefficient for Certain Quantitative Traits in Fieldpea (Pisum sativum L. var. arvense).
Type of the Article	Practical with theoretical aspects

PART 1: Comments

	Reviewer's comment Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.	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)
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.	<p>Article with practical with theoretical aspects to analyse interaction of multi parameters from genetical and environmental aspects. Path-coefficient analysis is very important statistical technique that can be used to quantify the interrelationship of different yield components. In agricultural production, higher interaction between different parameters and the presence of contrasting developments in their effects on the yield is often not possible to separate the effects with significant impact on mathematical modeling- water efficiency and its contribution to the yield. Application of Path- analysis in determining the independent variables in the construction of production function allows to identify the most significant of them and the nature of their interaction in forming the productivity of individual plants. Path- analysis has advantages in terms of assessment of the factors and influences the prognostic results than classical statistical methods. Production function analysis has advantages in the yield of agricultural crops not only because it allows establishing relationships but is also valued and key indicators such as average and marginal efficiency coefficient of elasticity and production rate alternative variables.. It explores the dependence of the rate of change in volume of the factors forming yield . For instance, on peas,.it was found that plant height showed positive direct effect on seed yield and that No. of.pods/plant is a highly reliable component for yield indications In the same trend. The correlation between seed yield with plant height, No. of pods/ plant and biological yield/plant and No. seeds/pod was highly significant and positive.</p> <p>Necessary author to highlight with more detail using of application of Path- analysis in such study more than information about biological and economical value of the crop.</p>	Done
Is the title of the article suitable? (If not please suggest an alternative title)	Title cover the study	Yes
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.	No need any addition its more detail and cover the content	Yes, it is okay and does not need addition of any point
Is the manuscript scientifically, correct? Please write here.	<u>Article with scientific character which high light using mathematical method as correlation coefficient which gives an indication of the type and degree of the relationship between yield and yield contributing traits by measuring the magnitude of linear relationship between two variables and path analysis has emerged as an important and widely used technique for understanding the direction of contribution of traits on grain yield.</u>	Yes, and Improved (highlighted in revised word file)
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	To add other as following: Singh V. and S.P. Singh (1999). Vaiability and correlation studies in pea (Pisum sativum L.). Ann. Agri. Bio Res, 4:87-91 Singh S.K. and S.B.L. Srivastava (2001). Comparision of direct and indirect effects of yield traits on yield in tall and dwarf genotypes of pea (Pisum sativum L.). Indian Genet. Resour, 14: 201-202. Singh J.D. and I.P. Singh (2005). Studies on correlation and path analysis in field pea (Pisum sativum L.). Natl. J. Plant Improve, 7:59-60. Singh J.D. and I.P. Singh (2006). Genetic variability, heritability, expected genetic advance and character association in field pea (Pisum sativum L.). Legume Res, 29:65-67. Shaban, N.Analysis of the correlation andregression coefficients of the interactionbetween yield and some parameters of snapbeans plants. Trakia Journal of Sciences,3(6), 27-31. .2005 (PDF) Original Contribution CORRELATION AND PATH ANALYSIS OF INTERACTION BETWEEN GREEN PEA YIELD AND ITS COMPONENTS WITH CROP MANAGEMENT. Available from: https://www.researchgate.net/publication/350439283 Original Contribution CORRELATION AN	Yes, some references added and some removed and some corrected (highlighted in revised word file)

	D PATH ANALYSIS OF INTERACTION BETWEEN GREEN PEA YIELD AND ITS COMPONENTS WITH CROP MANAGEMENT [accessed Feb 03 2025].	
Is the language/English quality of the article suitable for scholarly communications?	Using English language suitable for scholarly communication.	Yes
<u>Optional/General</u> comments	Article with new information highlighted using mathematical models to analyse biological behaviour of plant.	

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	