



**SDI Review Form 1.6**

Journal Name:	<a href="#">International Journal of Plant &amp; Soil Science</a>
Manuscript Number:	Ms_IJPSS_49329
Title of the Manuscript:	Mathematical Modeling to Estimation Leaf Area of Pimenta dioica from Linear Dimensions
Type of the Article	Original Research 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

**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)
<b>Compulsory</b> REVISION comments	Nothing	
<b>Minor</b> REVISION comments	(1) In ABSTRACT, although you wrote " The means obtained from ELA and OLA were compared by Student's t test 5% probability. ", I failed to find out description on Student's t test 5% probability in this manuscript. (2) In the 3rd paragraph on page 2, I do not understand the meaning of the sentence " In this sense, the objective of this study was to generate regression equations and test from mathematical models estimating the leaf area of Pimenta dioica from linear dimensions of the leaves, of form non-destructively. ". (3) In the 2nd line from the bottom on page 3, "and n, is the number of sheets" should be replaced with "and n is the number of sheets".	(1) Has been corrected in ABSTRACT.  (2) This sentence refers to the objective of the work that was to find the best equation in the estimation of the leaf area of Pimenta dioica, through appropriate validation tests.  (3) Change made to the manuscript.
<b>Optional/General</b> comments	You wrote "the mean absolute error (MAE), the root mean square error (RMSE) and the Willmott d index should be taken into account in the selection of the model that best estimates the leaf area of Pimenta dioica." in the 2nd paragraph on page 5. However, the values of coefficient of determination are emphasized in Table 2 and you wrote "The power model ( $ELA = 0.7605(LW)^{0.9926}$ and $R^2 = 0.9764$ ) based on the product of length and width (LW) is the most indicated"(no description on MAE and RMSE) in CONCLUSION. If your thought is that MAE and RMSE is more important than coefficient of determination, the values of MAE and RMSE should be shown to compare regression models.	The suggested changes were made at the conclusion, with the mean absolute error (MAE), the root mean square error (RMSE) and the Willmott d index

**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)	without changes