



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	2014_AJEA_14184
Title of the Manuscript:	Estimates of Leaf Area of <i>Curcubita moschata</i> Duch. based on Linear Measures and Degree-days in planting of winter in the Central-Western Region of Brazil
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.

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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)
Compulsory REVISION comments	Title: The Authors should mention the cultivar after the species cucurbita. Keywords: The authors should Add: Cucurbita Moschata, Leaf area estimation, linear measurement. Introduction: The authors didn't limit the objectives of their work clearly. Material and methods: The authors should give the average light intensity at which plants had been submitted during the experiment. This factor affects deeply the plant leaf area. Line 79: The pumpkin cultivar of Cucurbita moschata used in this study is "Menina Brasileira Precoce", it's characterized by a cylindrical.... The authors should give a photo of this cultivar. In all the manuscript the authors must change the word sheet by leaf or sheets by leaves. Line 115: transverse T1 and T2 instead I and II. Line 118: we don't know what C means.	Title The authors wish to insert the name of the cultivar in the title, because no occur hardly significant differences in sheet format of pumpkin between cultivars Keywords The authors added keywords that do not appear on the title, to increase citation and / or article search Introduction Objective described between lines 63 and 66 Material and methods The leaf area can be obtained by the allocation of photosynthate relationships resulting from the photosynthesis, namely, larger leaves indicate higher absorption of radiation, provided that occurs availability. Thus, understands that in places with lower luminosities, the leaves would present smaller growth rates and sizes. Added a Figure 1 to present the phenological stages and fruit shape Other comments were accepted and corrected



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	Results and discussion: Line 178: The table 3 indicates instead in table 3 indicate. Line 181 the linear regressions of the estimates. Line 194: Position in parenthesis (), following.... Conclusion: Line 263: the LA equation contains an error. According to the data in table. 2, I think that LA13 and LA23 equations could be the analytical models which better reflect plant leaf area. The authors should give arguments to defend the validity and reliability of their analytical model LA14. The authors told that they can predict the leaf area; we ask them to give practical data which make evidence of this precise, simple, easy and practical model.	Results and discussion Corrections performed Material and methods Error in LA corrected. As the best model, Table 3 shows the results of the statistical indications, and in this case, these values were used for deciding which model to be recommended. The model 23 presents the best results, but in practice field, the obtaining transverse measures may entail collection time, in this sense, and with good statistical performance Model 14 becomes a good option. In a simplified manner, to the leaves of the cultivar studied, have a ratio of length to width 1.3. Thus, for example, a sheet of width and length 5 and 4 cm, respectively, present $LA = 0.2720 * (5 + 4) ^ 1.8467 = 15.73 \text{ cm}^2$. This way, the model could represent 14 LA along the development cycle of the plant.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		