



SDI Review Form 1.6

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_43321
Title of the Manuscript:	Basal Temperature and Thermal Constant for the Production of Cacao Tree Seedlings
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)
Compulsory REVISION comments	Line 96. "and 3 m right foot" what do you mean? Explain better Line 103. "apply irrigation depth 8 mm day⁻¹". Why depth? Line 129. Equation is not readable, check also the unit measure in the following paragraph. The use of periods is not correct. Line 139. I suggest to add the number of days after seeding for a quicker understanding. Line 160. Explain how do you get the basal temperature (Tb). Line 306-307 Rephrase because it is not clear Line 370. You probably mean longer instead of 'higher'	The requested modifications were made and highlighted according to the orientation of the journal. Line 96 – "...and 3 m height, ..." Line 103 – "apply irrigation water depth 8 mm day⁻¹". Line 129 - The correct formatting is: $ET_o = \frac{0.408\Delta(Rn - G) + \gamma \frac{900}{T + 273} u_2(e_s - e_a)}{\Delta + \gamma(1 + 0.34 u_2)}$ Line 139 – The days after seeding were described. Line 160 - The methodologies proposed by Arnold [17] and Yang et al. [18] were used to estimate the Tb of the cacao tree seedlings through four methods: standard deviation in degree-day (SDdd), standard deviation in days (SDd), coefficient of variation in degree-day (CVdd) and relative development (RD). Due to the difference between the Tb and TB estimation values as a function of the methods, the final value of Tb and TB for cacao tree seedlings production was obtained by the arithmetic mean of the Tb and TB values found by the methods, with the mean Tb, later used for the thermal sum (DD). Line 306 – Rephrased. Line 370 – Yes. The correct is "longer"
Minor REVISION comments		
Optional/General comments	The study is very simple but meaningful and the paper is interesting and well written. Although the shortness, it reports the most important findings. My overall comment regards the discussions that may deserve more formulations besides the comparisons of Tb and TB with other species. I would suggest to make an effort and discuss better your findings.	The research aimed to determine the minimum (Tb) and maximum (TB) temperature and the thermal sum in degree-days (DD) required for the production of quality seedlings of the cacao tree genotype TSH1188. Thanks for the suggestions, but we opted to keep the discussion of the paper.