



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	Ms_AJEA_26402
Title of the Manuscript:	STUDIES ON HETEROSIS FOR HEAT TOLERANCE IN TOMATO
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.

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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)
<u>Compulsory</u> REVISION comments	The manuscript is difficult to analyze due to serious problems with English language. However, there are also scientific problems that should be revised by authors for accomplishing the academic quality required for publication. First, authors do not present neither variables nor genotypes under study. They also talk about ten hybrids and, when presenting analysis of variance in results, degrees of freedom for the Genotype source of variation, it has only 14, which indicates that hybrid are not independent. Then, when presenting reterososis values, this fact is well explained: a diallel mating cross design was used,. Hence, the major scientific problem concerning this manuscript is that no diallel analysis (estimation of general and specific combining ability, for instance) is presented. Comparisons presented by authors in the present version of the manuscript is valuable if hybrids were not related, but being the result of diallel cross, those comparisons lack of breeding significance.	• In this study 10 hybrids were developed through crossing among 5 parental line in half diallel fashion. Then 10 F₁'s and 5 parents (15 genotypes) were evaluated in hot summer season. Therefore, DF is here 14 (15-1=14) • We are previously another manuscript where SCA, GCA will be presented.
<u>Minor</u> REVISION comments	English revision should be done by an expert in this language before submitting a new version, which must be done applying the diallel approach to data. Also the tittle is unclear: why heat tolerance?. And selections of parents of diallel hybrids should be justified according to previous knowledge of their performance as pure lines (or any other scientific reason),	• Hybrids in parents were evaluated during hot summer, that is why we used the term heat tolerance. Temperature data are given in modified . • Whole paper is modified for better readability. However the title is modified as studies on heterosis of tomato for summer season evaluation.
<u>Optional/General</u> comments		