



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	2014_AJEA_11682
Title of the Manuscript:	Morpho-Physiological Characterization of Cold-and Pre-flowering Drought Tolerance in grain Sorghum (<i>Sorghum bicolor</i> L. Moench) Inbreds
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>)



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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	The manuscript provides a very comprehensive study on a wide range of crucial morpho-physiological characteristics affecting plant yield with respect to abiotic stress conditions. All presented data contain appropriate statistical treatments including correlations between the individual parameters. Clear conclusions are formulated (The ability of grain sorghum lines to cease growth (lines B1 and B2), maintain leaf area index (lines B1, B2, B4 and B6), retain high chlorophyll content (lines B4 and B8) and high harvest index (line B2) will be important selection traits to develop sorghum cultivars for temperate and highland regions, with a possibility of pre-flowering drought occurrence.) I can therefore recommend the manuscript for publication. I have only a few comments: 1/ To provide an explanation of cultivars' abbreviations and names in Material and Methods section as well as in Table 1 and Figure 1 legends - i.e., to provide information that the given cultivar (cultivar's name) is marked as B1,...etc. Similarly, all abbreviations used in tables and figures have to be explained directly in the corresponding legend, or when they are repeating, they should be explained in the first figure or table which is then referred to in the following legends (See legend to Table 1, etc.)	
Minor REVISION comments	The manuscript language is very well; I only think that it should be written "between" instead of "among" in the headings describing an interaction between a defined set of physiological parameters.	



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	Insert a comma before and after the word “respectively” Insert a comma before the word “particularly” In all Figures, the letters indicating statistically significant differences have to be placed right above the data columns and a space should be found between the data columns and the letters (check the position of the letters).	
<u>Optional/General</u> comments	Overall, the manuscript provides a good analysis of crucial morpho-physiological traits affecting sorghum yield with respect to cold and drought stress. The data are presented very precisely, with all necessary statistical treatments. I can therefore recommend the manuscript for publication without a necessity of a further review process. I only require the de-coding of the sorghum cultivars names (which sorghum cultivar is marked as B1, etc.)	

Reviewer Details:

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