



SDI Review Form 1.6

Journal Name:	Asian Research Journal of Agriculture
Manuscript Number:	Ms_ARJA_32460
Title of the Manuscript:	Responses of physiological indices of forage sorghum under different plant populations in various nitrogen fertilizer treatments
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)
Compulsory REVISION comments	<p>In this manuscript the authors have studied a number of physiological indices of forage sorghum plants grown under different plant densities and different levels of nitrogen supply. This study is very interesting but there are a number of weaknesses and shortcomings which need to be addressed.</p> <p>First of all, it is not clear which were the various treatments. Authors refer to four different plant densities and to four different levels of nitrogen, but it is not clear if they have applied these four different levels of nitrogen to each one of the four different plant densities. And if this is the case, the values depicted in Figure 1 for every density treatments are the means of the four different levels of nitrogen? Again, if this is the case, I don't think it is the appropriate way to present and analyse their results. In any case, the authors have to clarify in details the experimental setup as well as the different treatments.</p> <p>Page 2, Materials and methods: how did the authors perform the statistical analysis?</p> <p>Page 3, equations: the authors need to describe in details the variables of each equation and how did they determine each one of them.</p> <p>Figures: authors need to include in each legend the description of the different treatments (what is the d1, d2, etc.). Moreover, mean values and SDs or SEs, as well as statistical significant differences are necessary in every</p>	<p>Thanks a lot for very important suggestions. The main plots were plant densities and four levels of nitrogen were sub-plots. Completely randomized block design was used and 4 replications were used in main experiment (In this paper, we just mentioned physiological trends and changes not parameters which are related to grain yield, forage characteristics and qualitative traits of forage sorghum). For analysis of physiological trends, we never use interactions between main plots, sub-plots or sub-sub plots. In this article, I have just decided to show trends of changes in TDM, LAI, NAR, CGR and RGR. In some other published papers on corn, wheat, potato and etc, authors have shown figures without showing mean comparison and other tables.</p> <p>As you can see all parameters like TDM, LAI, NAR, CGR and RGR and their equations are in Materials and methods. Software, stat-C and SAS use to analysis growth parameters and Excell software also used for figures. D1, D2, D3 and D4 and also N0, N1, N2, and N3 have shown in all figures.</p>



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	figure.	This paper is designed to show physiological indices trend. Tables which are shown analysis of varaince (ANOVA) which used to determine the significant differences. The multiple Range Test of Duncan which performs the separation means. Correlation coefficients also determined in other research (paper)
Minor REVISION comments		
Optional/General comments		