



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	Ms_AJEA_27088
Title of the Manuscript:	Efficacy of Integrated Straw Formulations on Lowland Rice Field Organic Carbon and Greenhouse Gas Emissions Using CCAFS-MOT Model in Niger State, Nigeria
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)
<u>Compulsory</u> REVISION comments	- Equation 1.1 is incomplete. - Is the experiment site representative in Niger State ? Are the conditions of precipitation and temperature close to the annual average meteorological condition in Niger State ? - Are the input parameters(climate type, soil type and so on) of the CCAFS-MOT localized in this manuscript according to the actual situation in Niger State ? - You drew the conclusion that treatments T4, T2 and T5 are recommended as adequate sustainable agricultural land management practices under climate change events in Northern West Nigeria, while is the fertilizer cost calculated ? The fertilizer used in T4 treatment is three times as that in T5. I suggest cost should be considered in the identification of best treatments.	- Corrected. - Yes. - Model used was calibrated to the local and current climatic and edaphic conditions of Niger state - As said in the manuscript, the aim of this study was to identify cost effective treatments. Chosen treatments are costless when compared to the conventional practices used by local farmers. The amount of nutrients being is reduced in half and straw are free of charge. Therefore, it will be highly affordable by local farmers.
<u>Minor</u> REVISION comments	Line 154, Greenhouse Gas (CO ₂ , CH ₄ and N ₂ O) should be written as (CO ₂ , CH ₄ and N ₂ O).	Agreed, corrections effected
<u>Optional/General</u> comments		