

Review Form 1.7

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_103832
Title of the Manuscript:	Explanatory factors of Zea mays var FBC6 yields in the Anacardium occidentale L. parklands at Logofourouso in Western Burkina Faso.
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:

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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)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>This article is interesting for scientific community. The main objective of the present study is to characterize the interactions between <i>Anacardium occidentale</i> and <i>Zea mays</i>. Specifically, it aims to determine the factors influencing maize development in cashew parklands, and to assess maize yields in these parklands. So, experiments were carried out during two rainy seasons from 2021 to 2022, on plots of Cashew-Maize and Maize alone, with three replications each of them. Some parameters supposed to explain the maize yields were measured on the two systems : Soil physico-chemical compositions have been determined from 0-40 cm under the ground ; parameters were measured in terms of soil humidity from 0 to 60 cm, and plant height growth during the vegetative phases of the crops. The maize photosynthetic assimilation was also measured on maize plants. The root excavations have been done to establish cashew and maize root systems from 0 to 60 cm depth. At last maize yields concerning were evaluated on the two production systems. Data were statistically analyzed using XLSTAT software. The cashew-corn plots showed a C (0.21%), N (0.02%), P (0.91 mg/kg) and K (29.59 mg/kg) content for the 0-20 cm horizon. These values are similar for the maize-only system and are less than 1%. Soil humidity also increased with depth in both systems. The numbers of maize roots predominate in the 10-15 cm horizons, while cashew roots are concentrated 35-40 cm below the soil surface. Chlorophyll uptake during the crop maturity phase between the systems was not significant (P<0.72), with an average value of 0.009 (±0.004) mg/mm²/day for the cashew-corn system. Grain production was estimated at 0.31±0.16 kg/m² for the cashew-corn plots. Beyond the socio-economic interests that justified its introduction into the Agrarian landscape, <i>Anacardium occidentale</i> is a species that does not interfere negatively with annual crops. The title of the article is suitable.</p> <p>The manuscript is scientifically correct. Subsections and structure of the manuscript appropriate References are sufficient and recent.</p>	
<p>Minor REVISION comments</p> <ol style="list-style-type: none"> 1. Is language/English quality of the article suitable for scholarly communications? 	<p>English quality is suitable.</p>	
<p>Optional/General comments</p>	<p>...which is a water-demanding species [23 ;24] [23; 24] Correct the style of the citations in the rest of the document.</p> <p>Figure 6a : correlation between ears and assimilability at bolting Figure 6b : correlation between ears and assimilability at heading Correct the presentation of captions.</p> <p>REFERENCES Correct the spacings.</p> <p>alone; H: horizon , Ca ech: exchan</p> <p>please check the spelling.</p>	

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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

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