



SDI Review Form 1.6

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	2013_IJPSS_6532
Title of the Manuscript:	Rice Response to Phosphorus and Potassium in Fluvisol of Second Order Lowland in a Guinea Savanna Zone of Sub-Saharan Africa
Type of the Article	Research Paper

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>Line 196 Fig. 2, Line 209 Fig. 3 and Line 212 Fig.4 should be deleted because the data can get from the Table 4 and Table 5.</p> <p>Line 220 Fig. 5 and Line 220 Fig. 6 should explain the data source. There are 3 P rate (30, 60 and 90) and 3 K rate (25, 50 and 75) in your treatments, but the response curve have many data??</p> <p>Line 273 to Line 275: author thinks that just applied P had limited effect in the uptake and translocation of N and K. I think some relative influence factors such as the studied soil content 150 mg/kg available-P; $P-Ca(H_2PO_4)_2H_2O$ contain Ca which may be influence $N(NH_4^+-N)$ and K uptake; K in the grain may be return to the straw in final maturity stage or before harvest.</p>	<p>Yes, data in figures 2, 3 and 4 can be read in tables 4 and 5. But results are not compared according to plant tissues as done in these figures. However, if reading can understand from tables as presented, we agree to delete the figures.</p> <p>This is the basic concept of the Analyse of Surface Curve Response: it can generate intermediate data from a few one. See method from: http://support.sas.com/documentation/cdl/en/statug/63962/HTML/default/viewer.htm#statug_rseg_sect014.htm</p> <p>Studied soil content of available-P was considered to discuss the uptake of N and K (L263-268). Ca contribution is also mentioned referring to the synergism relation between Ca and N as studied by Saijo <i>et al.</i>, (2001); see L267-268.</p>
Minor REVISION comments	<p>Line 112: I did not find the harvest index (HI) in any Table or Fig. of the MS.</p> <p>Line 117: the soil samples should be air-dried at room temperature, not Sun dried which can affect the final analysis results.</p>	<p>Sorry, this data was removed from the first version before submission.</p> <p>Yes, samples were exposed in a room to be dry. We assume that this is under influence of sun as compared to oven dry. Improvement is done as suggested (L116).</p>



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	author can use the accumulation of P and K in the straw or grain to find the relationship between P and K	Pearson correlation was processed between P-rate and the total concentration of N, P and K in above ground dry matter (Grain + straw), see Table 6:
<u>Optional/General</u> comments	Author's English express is very good.	Thank you.