



**SDI Review Form 1.6**

Journal Name:	<a href="#">Journal of Agriculture and Ecology Research International</a>
Manuscript Number:	Ms_JAERI_36094
Title of the Manuscript:	TRACTOR WHEEL TRAFFIC EFFECT ON THE GROWTH AND YIELD OF SOYBEAN (GLYCINE MAX) ON A SANDY CLAY LOAM SOIL IN THE SEMI ARID REGION OF NORTHERN NIGERIA.
Type of the 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>)

**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)
<b>Compulsory</b> REVISION comments	<p>The paper aimed to evaluate tractor wheel traffic effect on the growth and yield of soybean on a sandy clay loam soil in the semi-arid region of northern Nigeria. The subject is important for crop production and farm management.</p> <p><b>If plagiarism is suspected, please provide related proofs or web links.</b> What is the difference between the following paper and the submitted one S. O. Odey, S. I. Manuwa and O. C. Ademosu Growth and Yield Response of Soybean to Soil Compaction Caused by Tractor Traffic. <a href="http://www.academia.edu/10822604/Effects_of_Soil_Compaction_on_Growth_and_Yield_of_Crops_A_Review">http://www.academia.edu/10822604/Effects_of_Soil_Compaction_on_Growth_and_Yield_of_Crops_A_Review</a></p>	Noted
<b>Minor</b> REVISION comments	<ul style="list-style-type: none"> <li>- Please give justifications why 5,10,15 and 20 wheel Passes were selected.</li> <li>- Please review the position of symbol <math>\alpha</math> in tables 2, 3, as this symbol is on large values.</li> <li>- No data in the text about contact pressure so how it is considered in Eq.1.</li> <li>- Usually penetration resistance is a function of bulk density and moisture content so yield is considered to be function of only penetration resistance.</li> <li>- Also, Eq. 1 did not contain variable called <math>t</math> (the number of tractor passes) and this parameter is also function of penetration resistance.</li> <li>- In 2.4. Statistical methods section: The author/s speech was "It was meant to formulate different statistical models in order to relate soil bulk density, penetration resistance, soil moisture content, plant height and traffic intensity to yield of soybean" and no result in the text about this issue.</li> <li>- There was no ANOVA table to indicate significant level (The effect of number of tractor passes on soil bulk density was significant (<math>P &lt; 0.05</math>)).</li> </ul>	
<b>Optional/General</b> comments	For 2015 season the grain yield was 340 kg/ ha at 20 Passes while plant height, Plant stem diameter and Plant moisture were 22.30 cm, 0.94 cm and 41.4 % respectively and for 2016 season the grain yield was 356 kg/ ha at 20 Passes while plant height, , Plant stem diameter, Plant moisture were 21.40 cm, 0.96 cm and 40.6% respectively, please give justifications .	