



SDI Review Form 1.6

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_52689
Title of the Manuscript:	EFFECT OF CRUDE OIL CONCENTRATIONS ON THE VASCULAR BUNDLE SIZE OF TWO ZEA MAYS VARIETIES
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

	<p>Reviewer's comment This manuscript is scientifically robust and technically sound. However, corrections need to be effected on the write-up.</p>	<p>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>
<p>Compulsory REVISION comments</p>	<p>1. The whole write-up including the REFERENCES need to be put in the format acceptable for this Journal (IJPSS).</p>	
<p>Minor REVISION comments</p>	<p>Corrections could be effected as outlined below –</p> <p>1. Line 6: hydrocarbons had been on the ; Line 7: led to the increased pollution ; Line 8: crude oil concentrations in the soil on the vascular bundle sizes of two ; Line 9: Oba Super Zaria Maize (OSZM) and ; Line 11: Sciences, Faculty ; Line 12: out in a completely randomized block design replicated ; Line 14: used. Highly significant effect (P<0.001) of the ; Line 15: The results showed ; Line 16: vascular bundle sizes with ; Line 16: concentrations which were observed ; Line 17: vascular bundle sizes. ; Line 17: The vascular bundle sizes of Oba Super Zaria Maize decreased ; Line 18: significantly (p< 0.05) with increasing concentrations of crude oil, while ; Line 19: were also observed with the increasing concentrations in SMZ 37 Kaduna.</p> <p>Keywords: Zea may varieties ; crude oil pollution; soil; vascular bundle sizes</p> <p>Line 24: 1. INTRODUCTION Line 27: sustaining the rapidly ; Line 35: hydrocarbons had been ; Line 36: to the increased pollution ; Line 45: plants to crude contamination is high, and ; Line 48: roots. ; Line 54: bundle which is often enclosed ; Line 64: Zaria Maize, ; Line 65: was obtained from ; Line 66: vary the concentrations as, 15 ml ; Line 66: mixed up into 500 ml ; Line 69: with three seeds of maize. ; Line 70: After germination, the soil in the pots were all ; Line 71: oil at the different concentrations (15, ; Line 72: with continuous watering ; Line 73: in a randomized complete block design ; Line 74: The experimental study ; Line 75: Faculty ; Line 77: The stems were harvested and cross-sections were ; Line 78: cross-sections were stained, ; Line 78: procedures (Jane 1962), as modified by ; Line 80: of the grand meristem. ; Line 81: Fifteen measurements of ; Line 83: Data collected were subjected to a two-way analysis of variance using ; Line 88: 3. RESULTS ; Line 89: crude oil concentrations and ; Line 90: sizes were highly significant (p<0.001) ; Line 91: variety interaction with ; Line 93: Table 1: Analysis of variance (ANOVA) showing the effect of crude oil concentration on the two varieties of maize In Table 1 could as – Source of variation Sum of squares Mean squares ; Line 96: differences in the vascular bundle diameter in the two varieties as presented in Fig.1 ; Line 97: (OSZM) had significantly ; Line 98: As recorded in Fig. 2, ; Line 102: Maize Varieties</p> <p>2. The data presented in Table 2 is wrong, this is because there could be no interactive effect, thus data on the two maize varieties, OSZM and SMZ 37 Kaduna could have been analysed separately along the two columns. Also, the number of experimental plants should be increased for adequate data analysis. In Line 117: Table 2 could be corrected as –</p>	



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	<p>Table 2: Effect of crude oil concentration on the vascular bundles (vessel diameter, mm) of the two maize varieties OSZM ; SMZ 37 Kaduna In Lines 119 to 120, could be – Means with different alphabets along the columns are significantly different using Least Significant Difference (LSD) at P < 0.05 Could still effect corrections in Lines 103 to 147 (for more clarity of this write-up. 3. The Discussion and Conclusion done in Lines 121 to 149 is adequate, though few errors could be corrected. 4. The Conclusion could have been drawn as follows - 5. CONCLUSION Based on the results obtained from this investigation, Oba Super Zaria maize (OSZM) variety appeared to be less susceptible in soils contaminated with crude oil, than the SMZ 37 Kaduna SMZ 37 Kaduna variety. 5. Line 165: Could delete 'Unpublish' ; Line 175: goals: ; Line 190: and Agusomu, ; Line 192: and Osayande, Line 193: (Zea mays L.)</p>	
<p>Optional/General comments</p>	<p>Major corrections could be made to bring this work to acceptable standard. The SAS statistical package Or sensitive package could be used for data analysis with enough data collected.</p>	

PART 2:

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

Reviewer Details:

<p>Name:</p>	<p>Grace O. Tona</p>
<p>Department, University & Country</p>	<p>Ladoke Akintola University of Technology, Nigeria</p>