



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_26275
Title of the Manuscript:	Variability in Some Soil Physical and Chemical Properties of Shambat Farm, Khartoum- Sudan
Type of Article:	Original Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>Please describe the statistical method.</p> <p>How many treatments and how many replications?</p> <p>How many degrees of freedom?</p> <p>Are there practical recommendations for farmers?</p>	<p>Please describe the statistical method.</p> <p>Responses to the comment:</p> <p>Means and variations acquired by one-way analysis of variance (ANOVA) to compare the means of different soil chemical, physical and mechanical properties under study area, differences between individual means were tested using the Duncan multiples range test (DMRT) ($p = 0.05$ significance level) according to [15] .</p> <p>How many treatments and how many replications?</p> <p>Responses to the comment:</p> <p>We took 24 soil samples from five soil profiles and the means obtained from each profile depths.</p> <p>How many degrees of freedom?</p> <p>Responses to the comment:</p> <p>We provided the degree of freedom for each soil property obtained by soil profile different sites. 11 soil properties used in comparing between 5 site so we have 11 degree of freedom.</p> <p>Are there practical recommendations for farmers?</p> <p>Responses to the comment:</p> <p>1- In this case the soil needs, addition of agricultural gypsum to reduce the impact of sodium (sodic soil), in addition to the use high efficiency irrigation water to reduce the level of salt.</p> <p>2- Advisable to use organic fertilizers such as a compost fertilizer, and humic substances. Also must add nitrogen fertilizers such as urea, ammonium sulphate and phosphate fertilizers such as super phosphate.</p> <p>3- Use deep rotting crops with tillage can be recommended to reduce soil compaction and increase soil permeability.</p>