

Review Form 1.6

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_ JERR_86458
Title of the Manuscript:	EFFECT OF RAINFALL AND TEMPERATURE VARIABILITY ON STREAMFLOW IN NZOIA RIVER BASIN, KENYA.
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)
Compulsory REVISION comments	<ul style="list-style-type: none"> The subject of this research is interesting. However it is too long for publication in its present form. Authors should work to shorten the manuscript. I had confusion with the study period which varies along the MS. It is 1970-2016 in the abstract, 1974-2017 in page 4, 1970-2016 in page 6 and different periods for meteorology! The authors all-over the manuscript miscalculated the period to calculate the rates, e.g. 1974-2017 is 44 yrs NOT 43 as 1974 is included and counted. The whole introduction misses any literature on Africa, with no previous work mentioned for African Rivers! Introducing the statistical concepts, no literature was given to support and justify their use! 'a.m.s.l.' 1st mentioned in Page 3, and then in the whole manuscript turned to 'm.a.s.l.', why? And what is it? I believe this refers to above mean sea level. If so, authors should mention it in the first use before abbreviation and correct it in the whole text. Nzoia river upstream at Webuye (IDA02) is not shown in Figure 1, instead there is IDD01 in Figure 1 OR IDD02 as in Table 1??!!!! Page 8: '....of 82.27 mm in the period 1979 - 2001.', while in the figure, the time started at 1970! Page 10: '.....the Nzoia River Basin has <u>four rainy seasons per year</u>. There are <u>two rainy seasons and two dry seasons</u>.' How comes? Page 10: '....There is no specific dry season, however the months of December, January, and February (DJF) and, in some areas, June, July, August, and September are dry seasons in comparison to the wet seasons (JJAS).' I am really confused and this confusion with the contradicted features shown lasts all over the whole manuscript! In figure 3, axes started sometimes in 1970 and others in 1971! In expressing the temperature unit, please use the symbol '°' instead of the superscripted zero! Omit figures (7-9) and the associated text as it is a kind of repetition of the preceded mentioned results. It would be better to depict each temperature criterion & its trend in separate plots for the 3 stations, i.e. max trends; min. trends and mean trends to ease the comparison and to be in accordance with the text. Please, superscript m³/s for flow rate: m³/s Please, place figures and tables after the related text not before it Reference style must be revised: abbreviated or full mentioned journal names? Italic or non-italic journal names; is it : or , before page numbers 	
Minor REVISION comments		
Optional/General comments	<ul style="list-style-type: none"> Statistical analyses are well presented. Relationships between variations in stream flows and both rainfall and air temperatures are well presented. I suggest omitting section 3.4 and making it as a recommendation statement for further work. 	

PART 2:

	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)
Are there ethical issues in this manuscript?	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i> No ethical issues in this manuscript</p>	

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