

Accepted Manuscript

Changeability of Soil Erosion Variables in Small Field Plots from Different Rainfall Durations with Constant Intensity

Azadeh Katebikord, Abdulvahed Khaledi Darvishan, Seyed Jalil Alavi



PII: S1464-343X(17)30093-6
DOI: 10.1016/j.jafrearsci.2017.02.026
Reference: AES 2827
To appear in: *Journal of African Earth Sciences*
Received Date: 07 May 2016
Revised Date: 13 February 2017
Accepted Date: 16 February 2017

Please cite this article as: Azadeh Katebikord, Abdulvahed Khaledi Darvishan, Seyed Jalil Alavi, Changeability of Soil Erosion Variables in Small Field Plots from Different Rainfall Durations with Constant Intensity, *Journal of African Earth Sciences* (2017), doi: 10.1016/j.jafrearsci.2017.02.026

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- The experimental rainfall duration must be long enough based on the design IDF of the study area
- Even 5 minutes difference in rainfall duration can significantly change the results at plot scale
- The average SDR was from 0.41% and 13.03% for 5 and 30 minutes rainfall duration respectively
- Even at plot scale, a significant part of the eroded soil particles does not transport to the outlet
- Hydrological responses were studied using Generalized Linear and Additive Models (GLM and GAM)

Download English Version:

<https://daneshyari.com/en/article/5785731>

Download Persian Version:

<https://daneshyari.com/article/5785731>

[Daneshyari.com](https://daneshyari.com)