

Accepted Manuscript

Predicting the impact of land management decisions on overland flow generation: Implications for cesium migration in forested Fukushima watersheds

Erica R. Siirila-Woodburn , Carl I. Steefel , Kenneth H. Williams ,
Jens T. Birkholzer

PII: S0309-1708(17)30515-8
DOI: [10.1016/j.advwatres.2018.01.008](https://doi.org/10.1016/j.advwatres.2018.01.008)
Reference: ADWR 3064



To appear in: *Advances in Water Resources*

Received date: 19 May 2017
Revised date: 6 January 2018
Accepted date: 8 January 2018

Please cite this article as: Erica R. Siirila-Woodburn , Carl I. Steefel , Kenneth H. Williams , Jens T. Birkholzer , Predicting the impact of land management decisions on overland flow generation: Implications for cesium migration in forested Fukushima watersheds, *Advances in Water Resources* (2018), doi: [10.1016/j.advwatres.2018.01.008](https://doi.org/10.1016/j.advwatres.2018.01.008)

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

- Effects of LULC change on overland flow generation are numerically quantified.
- Tools include an integrated hydrologic model and high performance computing.
- Example watershed in Fukushima illustrates impacts on contaminant transport.
- Results show non-linearity of hydrologic response to storm event.
- No single parameter revealed correlation to overland flow generation.

Download English Version:

<https://daneshyari.com/en/article/8883347>

Download Persian Version:

<https://daneshyari.com/article/8883347>

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