## Accepted Manuscript

The effect of year-to-year variability of leaf area index on Variable Infiltration Capacity model performance and simulation of runoff

Z.K. Tesemma, Y. Wei, M.C. Peel, A.W. Western

 PII:
 S0309-1708(15)00142-6

 DOI:
 10.1016/j.advwatres.2015.07.002

 Reference:
 ADWR 2414

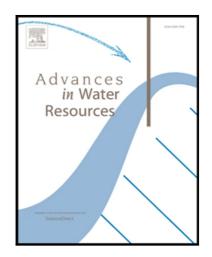
To appear in:

Advances in Water Resources

Received date:13 May 2015Revised date:2 July 2015Accepted date:6 July 2015

Please cite this article as: Z.K. Tesemma , Y. Wei , M.C. Peel , A.W. Western , The effect of yearto-year variability of leaf area index on Variable Infiltration Capacity model performance and simulation of runoff, *Advances in Water Resources* (2015), doi: 10.1016/j.advwatres.2015.07.002

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 study assesses the impact of using year-to-year variable monthly LAI to calibrate VIC model and its performance.
- VIC model efficiency can be improved when the year-to-year variable monthly LAI is used to calibrate the model.
- Leaf area index elasticity of runoff is strongly related with catchment characteristics.
- Uses of long-term mean monthly LAI in VIC model tend to underestimate simulate runoff in dry period and overestimate in wet period.

Chillip Markey

Download English Version:

## https://daneshyari.com/en/article/6380937

Download Persian Version:

https://daneshyari.com/article/6380937

Daneshyari.com