Accepted Manuscript

Research papers

Spatial predictions of the permanent wilting point in arid and semi-arid regions of Northeast China

Xinxin Jin, Shuai Wang, Na Yu, Hongtao Zou, Jing An, Yuling Zhang, Jingkuan Wang, Yulong Zhang

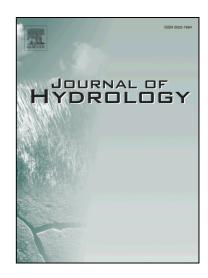
PII: S0022-1694(18)30543-2

DOI: https://doi.org/10.1016/j.jhydrol.2018.07.038

Reference: HYDROL 22970

To appear in: *Journal of Hydrology*

Received Date: 30 April 2017 Revised Date: 13 April 2018 Accepted Date: 14 July 2018



Please cite this article as: Jin, X., Wang, S., Yu, N., Zou, H., An, J., Zhang, Y., Wang, J., Zhang, Y., Spatial predictions of the permanent wilting point in arid and semi-arid regions of Northeast China, *Journal of Hydrology* (2018), doi: https://doi.org/10.1016/j.jhydrol.2018.07.038

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.

Spatial predictions of the permanent wilting point in arid and semi-arid regions of Northeast

China

Xinxin Jin *, Shuai Wang *, Na Yu *, Hongtao Zou, Jing An, Yuling Zhang, Jingkuan Wang,

Yulong Zhang

College of Land and Environment, Shenyang Agricultural University, Shenyang, 110866, China

Key Laboratory of Northeast Cultivated Land Conservation, Ministry of Agriculture of the People's

Republic of China, Shenyang Agricultural University, Shenyang 110866, China

These authors contributed equally to this paper.

Corresponding author: Na Yu, E-mail: sausoilyn@163.com; Tel.: (86)13940396469 or

(86)024-88487155; Fax number: (86)024-88760466; College of Land and Environment, Shenyang

Agricultural University, Shenyang 110866, China

Xinxin Jin, E-mail: jinxinxin0218@163.com

Shuai Wang, E-mail: shuaiwangsy@163.com

Abbreviations: BF, bag fraction; BRT, boosted regression tree; CA, catchment area; CCC, the concordance correlation coefficient; DSM, Digital soil mapping; LR, learning rate; MAE, Mean Absolute Error; MLSR, multiple linear stepwise regression; NDVI, Normalized Difference Vegetation Index; NT, number of trees; PlaC, plan curvature; ProC, profile

curvature; PWP, permanent wilting point; RMSE, the Root Mean Square Error; R², the coefficient of determination; SD,

standard deviation; TC, tree complexity; TWI, System for Automated Geoscientific Analyses wetness index.

Download English Version:

https://daneshyari.com/en/article/8894479

Download Persian Version:

https://daneshyari.com/article/8894479

<u>Daneshyari.com</u>