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Publications from LWR/2002/018

Tim McVicar on behalf of the ACIAR Project Team

October 2005





Year 1 Publications



1. (ISWC_1): Mu Xingmin, Xu Xuexuan, Wang Wenlong, Wen Zhongming and Du Feng. (2003) Impact of the Artificial Forest on Soil Moisture of the Deep Soil Layer on Loess Plateau. *ACTA Pedologica Sinica*, 40(2): 210-217 (in Chinese with English abstract).
2. (ISWC_2): Mu Xingmin, Li Jing, Wang Fei and Xu Xuexuan. (2003) Analysis on the Annual Natural Water yield Variety Process of the Yellow River. *Journal of Arid Land Resources and Environment*, 17(2): 1-5 (in Chinese with English abstract).
3. (ISWC_3): Xu Xuexuan, Liu Wenzhao, Gao Peng and Mu Xingmin. (2003) Discussion on Soil Moisture Distributional Diversity in Hilly Loess Plateau Region. *Ecology and Environment*, 12(1): 52-55 (in Chinese with English abstract).
4. (ISWC_4): Yang Qinke and McVicar, T.R. (2004). Temporal Geographic Information Systems and its Uses in Natural Resource and Environmental Research. *Advance in Earth Sciences*. (In Print, in Chinese with English abstract). (Invited paper in a Special Issue: *Soil Erosion Modelling and Environmental Impacts of Soil and Water Conservation*.)
5. (ISWC_5): Han Lin, Yang Qinke, Ren Hongyu and Liang Wei. (2003) Employing Librarian Model of ARC/Info for Data Management in "Digital Loess Plateau". *Bulletin of Soil and Water Conservation*, 23(3): 51-54 (in Chinese with English abstract).
6. (ISWC_6): Ren Hongyu, Yang Qinke, Han Lin and Zhang Xiaoping. (2003) Construction and Application of the National Spatial Hydrology Database on a Hydrological Polygon Basis. *Bulletin of Soil and Water Conservation*, 23(3): 55-59 (in Chinese with English abstract).



.... Year 1 Publications



7. (ISWC_7): Liu Wenzhao and Li Yushan. (2003) Coupled Effect for Supplies of Water and Nutrients to Crop in the West of Weibei Rainfed Tableland. *Research of Soil and Water Conservation*, 10(1): 12-15 (in Chinese with English abstract).

8. (CLW_1): Huang Mingbin, Zhang Lu and Gallichand, J.. (2003) Water yield Responses to afforestation in a watershed of the Loess Plateau, China. *Hydrological Processes*, 17(13), 2599–2609.



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Year 2 Publications



1. (ISWC_1): Zhang Xiaoping, Li Rui, Yang Qinke, Jiao Feng, Wen Zhongming and Wang Fei. (2004). Study of Land-use / Farming Land Converting Change and Their Slope Gradient Differentiation on the Middle Scale Research Site Using Remote Sensing Data. *Chinese Agricultural Science Bulletin*. 7 pages (in Chinese with English abstract, accepted).

2. (ISWC_2): Wang Lina, Mu Xingmin, Gao Peng, and Su Xiaoling. (2004). The Response of Water Yield and Silt Sedimentation to Geomorphologic Factors in the Loess Hilly Gully Region. *Journal of Hydraulic Engineering*, 2005: 5 pages (in Chinese with English abstract, accepted).

3. (ISWC_3): Basang Chilie, Mu Xingmin, Gao Peng and Wang Wei. (2004). Study the Duration of Rainfall, Runoff and Sediment Changes with the Series of Time on the Yanhe River in the Loess Plateau of China. *Bulletin of Soil and Water Conservation*, 25(1): 11-16 (in Chinese with English abstract).

4. (ISWC_4): Zhang Xiaoping, Li Rui and Yang Qinke. (2004). Evaluation of Land Use Suitability at the Vulnerable Ecological Area Based on RS/GIS. *Science of Soil and Water Conservation*, 2(4): 30-36 (in Chinese with English abstract).

5. (ISWC_5): Mu Xingmin, Li Jing, Wang Fei, and Wang Wei. (2004). Rainfall-runoff Statistical Hydrological Model Based on Soil and Water Conservation Practices. *Journal of Hydraulic Engineering*, 2004(5): 8 pages (in Chinese with English abstract).

6. (ISWC_6): Mu Xingmin, Wang Fei, Li Jing, Gao Peng, Xu Xuexuan and Wang Wei. (2004). Review of Evaluation Method of Impact of Soil and Water Conservation Practices on River Flows. *Bulletin of Soil and Water Conservation*, 24(3): 73-78 (in Chinese with English abstract).



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7. (ISWC_7): Wang Fei, Li Rui, Mu Xingmin, and Yang Xinmin. (2004). Characteristics and Regional Differences of Runoff Cost of Sediment Control of Conservation Measures and Their Simulation in Weihe River Basin. *Science of Soil and Water Conservation*, 2(2): 12-17 (in Chinese with English abstract).
8. (ISWC_8): Feng Yanmin and Zhang Xiaoping. (2004). Inaccuracy During the Overlaying Vector Polygon in GIS and Establishment of the Database Based on the “Basic Unit”. *Research of Soil and Water Conservation*, 11(5): 38-41 (in Chinese with English abstract).
9. (ISWC_9): Gao Zhaoliang, Mu Xingmin and Zhang Xiaoping. (2004). Health Evaluation Indices and Procedure of Ecological Environment on Different Scale. *Research of Soil and Water Conservation*, 11(5): 42-45 (in Chinese with English abstract).
10. (ISWC_10): Liu Xinhua, Zhang Xiaoping, Yang Qinke, and Li Rui. (2004). Analysis and Selection of Topographical Indices Influencing Soil Loss on Different Scales. *Journal of Northwest Sci-Tech University of Agricultural and Forest (Nati. Sci. Ed.)*, 32(6): 107- 111 (in Chinese with English abstract).
11. (ISWC_11): Ding Linxia and Mu Xingmin. (2004). The Effect of Soil and Water Conservation on Temporal Change of the Surface Runoff in Watersheds. *Journal of Arid Land Resources and Environment*, 18(3): 1-5 (in Chinese with English abstract).
12. (ISWC_12): Mu Xingmin, Wang Fei, Li Rui and Zhang Xiaoping. (2004). Further Discussion on the Effect of Soil and Water Conservation on Water Resources in the Yellow River Basin. Presented on *Tsukuba Asian Seminar on Agricultural Education (TASAE)*, Japan, October 2004.



.... Year 2 Publications



13. (ISWC_13): Liu Wenzhao, Zhang Xunchang, Dang Tinghui, etc. (2004). Soil Water Dynamics and Recharge Under Various Cropping Systems in Subhumid Changwu Tableland Region in a Record Wet Year. *Proceedings of 2nd International Workshop on Yellow River Studies*, 27-37. 8-10 Nov 2004, Kyoto, Japan.
14. (ISWC_14): Liu Wenzhao, Hu Mengjun, Li Fengmin and Zhang Xunchang. (2004). Ecological Characteristics of Soil Water and Its Relations to Landform and Vegetation in a Small Semiarid Watershed in a Loess Hilly Area. *Proceeding of 13th International Soil Conservation Organization Conference*, Paper No.918. Brisbane, Australia.
15. (ISWC_15): Wen Zhongming, Yang Qinke, Jiao Feng. (2005). Impacts of Soil and Water Conservation on Regional Vegetation Succession: A Case Study of Loess Plateau. *Science of Soil and Water Conservation*, 3(1):32-37 (in Chinese with English abstract).
16. (ISWC_16): Wen Zhongming, Jiao Feng, Bo Yaojun, Jiao Juying. (2005). Natural-Restoration of Vegetation and Dynamic Changes of Species Diversity in Gully Regions on Loess Plateau-Case Study in Wuqi County. *Research of Soil and Water Conservation*, 12(1):1-4 (in Chinese with English abstract).
17. (ISWC_17): Wen Zhongming, Jiao Feng, Bo Yaojun, Yang Qinke. (2005). Advances in the Researches of Impact of Revegetation on Environment. *Journal of Northwest Forestry University*, 20(1):10-15 (in Chinese with English abstract).
18. (CLW_1): Huang Mingbin and Zhang Lu. (2004) Hydrological Responses to Conservation Practices in a Drainage Basin of the Loess Plateau, China. *Hydrological Processes*. 18, 1885-1898.



Year 3 Publications



1. (ISWC_1): Yang Qinke, Van Niel, T.G, McVicar, T.R., Hutchinson, M.F. and Li Lingtao. (2005) Developing a digital elevation model using ANUDEM for the Coarse Sandy Hilly Catchments of the Loess Plateau, China. CSIRO Land and Water Technical Report, 7/05, Canberra, Australia. (In prep. – 64 pp).
2. (ISWC_2): Mu Xingmin, Zhang Lu, McVicar, T.R., Basang Chilie, and Gao Peng (2005) Estimating the impact of conservation measures on stream-flow regime in catchments of the Loess Plateau, China. *Hydrological Processes* (Submitted).
3. (ISWC_3) Wen Zhongming, McVicar, T.R., Li Lingtao, Van Niel, T.G., and Jiao Feng, (2005) Mapping Perennial Vegetation Suitability and Identifying Priority Areas for Implementing the Re-Vegetation Program in the Coarse Sandy Hilly Catchments of the Loess Plateau, China. CSIRO Land and Water Technical Report, 18/05, Canberra, Australia, 55 pp.
22. (CLW_3): Li Lingtao, McVicar, T.R., Van Niel, T.G., Mu Xingmin, Zhang Xiaoping, Yang Qinke and Liu Zhihong. (2005) Spatial Interpolation of Time Series Point Hydrometeorological Data in China and Spatio-Temporal Analysis of FAO-56 Crop Reference Evapotranspiration and Pan Evaporation with Reference to Climate Change. CSIRO Land and Water Technical Report, 8/05, Canberra, Australia, (In prep. - 250 pp)
2. (CLW_2): McVicar, T.R., Li Lingtao, Van Niel, T.G., Hutchinson, M.F., Mu, Xingmin, and Liu Zhihong. (2005) Developing Monthly Meteorological Surfaces from 1980 to 2000 for the Coarse Sandy Hilly Catchments (CSHC) of the Loess Plateau, China. CSIRO Land and Water Technical Report, Canberra, Australia, (In prep. - 180 pp).
3. (CLW_3) Li Lingtao, McVicar, T.R., and Van Niel, T.G., (2005) User's Guide to ReVegIH, CSIRO Land and Water Technical Report, 19/05, Canberra, Australia,



.... Year 3 Publications



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A series of international journal papers are planned from the soon to be completed suite of 5 project-specific CLW Technical Reports.

DEM work – Journal of Applied Earth Observation and Geoinformation

Met interpolation work – Journal of Hydrology

Veg Suitability and Priority Mapping – Journal of Environmental Management

ReVegIH – Environmental Modelling and Software





Conclusions



International Journal Papers

published 2

submitted 2

planned 5

Chinese Journal Papers

published many

submitted many

planned many

CSIRO Land and Water Technical Reports

published 2

final drafts 3





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Thank You

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