

A Review of Soil Erosion Estimation Methods

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Abstract

Soil erosion has been seen as a major contributor to the loss of soil fertility and land degradation in many parts of the world. It is a very sensitive process for agriculture, since it is linked to the decrease of crops productivity along the time. Although it occurs in almost all latitudes on the planet, its effect is particularly severe in tropical climates, mainly due to frequently high rainfall intensities in those areas. The measurement of soil loss on experimental plots has provided valuable information for soil conservation plans, and data collected have contributed to deriving methods and equations that can estimate the extent of soil water erosion occurring under certain conditions. However, these methods are data hungry, and a solid research framework is needed to provide the required information to validate and use different models and equations generated elsewhere, to calculate the rate of erosion in a given place. Because estimating erosion rates is critical for conservation planning, the best fit models need to be well chosen and applied according to the local conditions. This article provides a review of some of the most used models for soil erosion estimation, with the purpose to provide some guidance to those involved in these studies.

Keywords

Soil Erosion, Land Degradation, Estimation, Soil Conservation, Models

1. Introduction

The estimation of the amount of soil that is lost due to water erosion for land use planning and to adopt soil conservation measures, has been done through different methodologies, of greater or lesser complexity, since the factors that determine erosion to be considered depending on the available data. In a generic way, one can identify 1) methods of prospecting erosion, which use observation of visible signs of erosion, 2) methods which use the mapping of factors that determine the risks of erosion, 3) and methods using soil loss models. This is not a

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Soil Erosion at Multiple Scales F. W. T. Penning de Vries, F. Agus, J. M. Kerr, 1998 Approaches to research on the causes and impacts of soil erosion have changed significantly over recent years Whereas biophysical research traditionally utilized small carefully managed erosion plots models and methods are now available to study impacts of broad scale management on the hydrology and water quality of catchments and even river basins Corresponding research tools have been developed for social and economic analysis at the household farm and community levels This book reviews the latest developments in such soil erosion studies These are considered on a matrix of scales from plot to river basin and from farm to national policy Some chapters review background issues while others consider specific methods Conclusions of working groups are presented in another chapter The book is based on papers presented at a workshop held in Indonesia in November 1997 and includes authors from Europe America Australia and Asia as well as from several of the CGIAR centers

USDA Forest Service Research Paper INT. ,1970 *USDA Forest Service Research Paper INT.* ,1971 *Soil Erosion and Conservation* R. P. C. Morgan, 2009-02-05 Soil Erosion and Conservation provides a comprehensive treatment of the processes of soil erosion the methods that can be used for their control and the issues involved in designing and implementing soil conservation programmes Features of the third edition of this internationally recognised textbook include New material on gully erosion tillage practices erosion risk assessment use of erosion models incentives for farmers and land users and community approaches to erosion control Updated sections on the mechanics of wind erosion soil erodibility use of vegetation in erosion control traditional soil conservation measures socio economic issues and the role of government Describes the methods used to assess the risk of erosion and predict rates of soil loss Outlines the social economic political and institutional constraints on implementing soil protection measures Covers erosion and its control for agriculture grazing forestry mining land road banks pipeline corridors and recreation Provides worldwide coverage of the success and failure of erosion control using material from Europe Africa Australia America and Asia An Instructor manual CD ROM for this title is available Please contact our Higher Education team at HigherEducation.wiley.com for more information *Forest Service Research Paper NE.* ,1977 **Soil Erosion** D. Zachar, 2011-08-19 Soil Erosion **Soil Erosion on Agricultural Land** John Boardman, J. A. Dearing, Ian D. L. Foster, 1990-06-14 Based on the proceedings of the annual conference of the Institute of British Geographers held at Coventry Polytechnic in January 1989 The papers in this volume give a comprehensive overview of soil erosion covering topics in erosion processes assessment and prediction and policy There are several general review articles as well as more focused contributions from geomorphology computing agronomy soil science sedimentology geology and agricultural economics **Soil Erosion by Water** Food and Agriculture Organization of the United Nations, 1965-01-01 **USDA Forest Service Research Paper RM.** Rocky Mountain Forest and Range Experiment Station (Fort Collins, Colo.), 1969 *Soil Erosion* British Geomorphological Research Group, 1980 Concentrates on the application of

erosion principles to erosion control combining the perspectives of the geomorphologist and agricultural engineer Covers mechanics and processes of soil erosion methods of measurement and laboratory and field experimentation approaches to erosion modelling and implications of these to practical control Treats water and wind erosion in depth [Browsing Science Research at the Federal Level in Canada](#) Brian B. Wilks, 2004-01-01 Wilks provides a historical background list of publications and description of activities for most of the major science initiatives undertaken at the federal level He surveys a wide range of government documents and monographic and serial science collections used by both faculty and students

Treatise on Geomorphology, 2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this Treatise on Geomorphology will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth's surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth's diverse surfaces This Treatise on Geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work

exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned **Soil Conservation** National Research

Council, Division on Earth and Life Studies, Board on Agriculture, Committee on Conservation Needs and Opportunities, 1986-02-01 This new volume is the first independent analysis of an important national data base the National Resources Inventory It cites potential uses of the NRI in controlling soil erosion determining land use deciding conservation treatment classifying soils and protecting groundwater quality Methods for soil conservation activities ranging from the ranking of the lands most susceptible to erosion to the measurement and prediction of both wind and water erosion are recommended throughout the volume **Soil Erosion** Lester Russell Brown, Edward C. Wolf, 1984 Causes dimensions and economics of the world soil erosion problem Vegetation and climate interactions in semi-arid regions A.

Henderson-Sellers, A.J Pitman, 2012-12-06 The chapters in this section place the problems of vegetation and climate interactions in semi arid regions into the context which recur throughout the book First Verstraete and Schwartz review desertification as a process of global change evaluating both the human and climatic factors The theme of human impact and land management is discussed further by Roberts whose review focuses on semi arid land use planning In the third and final chapter in this section we return to the meteorological theme Nicholls reviews the effects of El Nino Southern Oscillation on Australian vegetation stressing in particular the interaction between plants and their climatic environment Vegetatio 91 3 13 1991 3 A Henderson Sellers and A J Pitman eds Vegetation and climate interactions in semi arid regions 1991 Kluwer Academic Publishers Desertification and global change 2 M M Verstraete 2 Department of Atmospheric Oceanic and Space Sciences The University of Michigan Ann Arbor MI 48109 2143 USA Accepted 24 8 1990 Abstract Arid and semiarid regions cover one third of the continental areas on Earth These regions are very sensitive to a variety of physical chemical and biological degradation processes collectively called desertification **Selected Water Resources Abstracts**, 1990-10

Proceedings RMRS., 1998 **Land Stewardship in the 21st Century**, 2000 *South China Karst* 1 Huang Chuxing, Franci Gabrovšek, Nadja Zupan Hajna, Liu Hong, Martin Knez, Janja Kogovšek, Shi Mengxiong, Andrej Mihevec, Bojan Otoničar, Metka Petrič, Zhang Shouyue, Tadej Slabe, Stanka Šebela, Wu Wenqing, Chen Xiaoping, Jin Yuzhang, 1998-01-01 Knjiga povzema rezultate znanstvenega sodelovanja med In titutom za raziskovanje krasa ZRC SAZU Yunnanskim geografskim in titutom in Geolo kim in titutom Kitajske akademije znanosti Raziskave so potekale na območju v bližini Liupanshuija v zahodnem delu province Guizhou na kraji planotah med Guizhouom in Yunnanom ter v Lunanskem kamnitem gozdu in kopastem krasu Xichoua v Yunnanu Predstavljene so splošne značilnosti območja litološke in strukturne zgradbe ter geomorfološke speleološke in hidrogeološke značilnosti pa tudi razliki in njihovi vplivi na okolje *Quaternary and Recent Processes and Forms (1890-1965) and the Mid-century Revolutions* Richard J. Chorley, 2008

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