



(月刊)

中国水土保持

ZHONGGUO SHUI TU BAOCHI

2026 年第 7 期

(总第 532 期)

7 月 5 日在郑州出版

1980 年创刊

主 管 中华人民共和国水利部
主 办 水利部黄河水利委员会

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全国优秀农业期刊

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目 次

□新思考新探讨□

“十四五”时期宁夏水土流失动态变化分析

..... 陶清瑞,李 阳,张国军,等(1)

基于无人机倾斜摄影的水土保持扰动识别技术探讨 王康宪(6)

安徽省水土保持监测站点优化布局及升级改造思路

..... 高小强,顾朝军,凤海明(10)

□新时代水土保持□

水土保持生态产品价值实现的路径与瓶颈

..... 张杰铭,黄国情,席 志,等(14)

□新探索新实践□

贵州首批水土保持生态产品价值转化实践分析

..... 宁茂岐,杨 梅,陈卫华,等(20)

江西省水土保持生态产品价值实现实践与探索

..... 涂安国,刘毅生,肖胜生,等(24)

长三角平原铁路建设项目余方处置问题分析及探讨

..... 王忠禹,孙昱程,丰成林,等(29)

□建设项目防与治□

风化型坡面生态修复模式及效果初探

..... 张 浩,李 娇,赵延超,等(33)

天水市水土流失综合治理创新与实践 康贵良(37)

新疆乌苏市绿色食品产业园水土保持设计与探讨 何馥恒(40)

□新技术应用□

数字孪生技术在桥子沟小流域水土保持管理中的实践与应用

..... 雷迪尧,刘 晓,杨霖悦,等(44)

□水保强监管□

辽宁省水土保持重点工程水利稽察问题分析 黄毅鹏(52)

□小流域治理□

贵州省思南县三道水生态清洁小流域建设实践与成效

..... 孔令勇,谢铭烽,文林曲(55)

□智慧水保□

人工智能在水土保持方案辅助审查中的应用场景研究

..... 王 霄,董紫苑,王立明,等(58)



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2026 年第 7 期

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7 月 5 日在郑州出版

1980 年创刊

主任(主编) 翟成亮(0371-66022338)

副 主 任

(副主编) 孙占锋(0371-66020720)

责任编辑 徐素霞 李杨杨 张绪兰

李佳星 杨傲秋 赵小娜

美术编辑 李晓辉

发行主管 闫 耕(0371-66022619)

QQ:838347450

编辑出版 《中国水土保持》编辑部

地 址 河南省郑州市金水路 11 号

邮 政 编 码 450003

编 辑 部 0371-66028761

66022610

稿 件 查 询 0371-66022338

投 稿 网 址 www.swcczz.cn

电 子 信 箱 swcc2000@vip.sina.com

印 刷 河南瑞之光印刷股份有限

公司

国 内 发 行 《中国水土保持》编辑部

国 外 发 行 中国国际图书贸易集团

有限公司(北京 399 信箱)

定 价 15.00 元

中国标准连 ISSN 1000-0941

续出版物号 CN 41-1144/TV

本刊声明

本刊已入编中国学术期刊(光盘版)、万方数据-数字化期群和中国核心期刊(遴选)数据库等电子出版物,作者著作权使用费与本刊稿酬一次性给付,作者如有异议,可在来稿时注明或来函说明。

□试验与研究□

浙江省开化县禁止开垦陡坡地范围划定的实践与优化研究

..... 刘梦茹,蔡发英,方 文,等(64)

2018—2024 年榆林市土壤侵蚀时空演变及驱动机制

..... 崔 胜,李雅雯,李聪聪,等(68)

半湿润常绿阔叶林群落特征分析

..... 贾 林,刘璐瑶,丁亚东,等(76)

多元政策协同下山西省水土保持生态建设农民参与机制及高质量就业

实现路径研究 王京伟(81)

边坡生态修复基材优化及植物适配性室内试验研究

..... 李庆庆,雷潘潘,薛启浪,等(87)

植被恢复对工程弃渣场土壤的改良效应 蒋明明(91)

辽西北地区水土保持措施保存情况及效益年限研究

..... 张铁洋,褚丽妹,朱淼淼(95)

江西省兴国县蕉溪小流域不同措施水土保持碳汇特征

..... 谢林波,吴小雨,莫明浩,等(101)

引汉济渭工程水源地河岸缓冲带景观稳定性评价及生态网络构建

..... 尹 鑫,徐国鑫,张新平,等(105)

不同栽植方式对湿陷性黄土地区土壤理化性质的影响

..... 冯永林,刘学录,罗广锋,等(111)

□简讯□ (9,23,90)

□服务窗口□

本刊宣传协作网(116)·2026 年度本刊发行前 10 名(116)

□四封□

封一 碧水穿黄——南水北调中线穿黄工程水土保持生态图景

..... 喻权刚 供稿

封二 碳汇林赋能生态治理 南小河沟再添新绿 王一涵 供稿

封三 生产建设项目水土保持方案、监测季报、设施验收报告智能

编审系统 广告

封四 生产建设项目水土保持智慧平台 广告

彩插 中国水土保持学会 2026 年全国水土保持科技工作者交流活动

在陕西富平成功举办 本刊

SOIL AND WATER CONSERVATION IN CHINA



No. 7 (Total 532)

Jul. 5, 2026

Main Contents

Dynamic Changes in Soil Erosion and Water Loss in Ningxia During the 14th Five-Year Plan Period	Tao Qingrui, Li Yang, Zhang Guojun, et al. (1)
Identification Technology for Soil and Water Conservation Disturbance Based on UAV Oblique Photography	Wang Kangxian(6)
Optimized Layout and Upgrading Renovation Ideas for Soil and Water Conservation Monitoring Stations in Anhui Province	Gao Xiaoqiang, Gu Chaojun, Feng Haiming(10)
Paths and Bottlenecks for Value Realization of Ecological Products of Soil and Water Conservation	Zhang Jieming, Huang Guoqing, Xi Zhi, et al. (14)
Analysis of the First Batch of Value Transformation Practices of Ecological Products of Soil and Water Conservation in Guizhou Province	Ning Maoqi, Yang Mei, Chen Weihua, et al. (20)
Practices and Exploration of Value Realization of Ecological Products of Soil and Water Conservation in Jiangxi Province	Tu Anguo, Liu Yisheng, Xiao Shengsheng, et al. (24)
Analysis and Discussion on Disposal Issues of Remaining Earthwork in Railway Construction Projects in the Yangtze River Delta Plain	Wang Zhongyu, Sun Yucheng, Feng Chenglin, et al. (29)
Ecological Restoration Models and Effects for Weathered Slopes	Zhang Hao, Li Jiao, Zhao Yanchao, et al. (33)
Innovation and Practices of Comprehensive Control of Soil Erosion and Water Loss in Tianshui City	Kang Guiliang(37)
Design and Discussion on Soil and Water Conservation for the Green Food Industrial Park in Wusu City of Xinjiang	He Fuheng(40)
Practices and Application of Digital Twin Technology in Soil and Water Conservation Management in the Qiaozigou Small Watershed	Lei Diyao, Liu Xiao, Yang Linyue, et al. (44)
Issues Analysis of Water Resources Inspect in Key Soil and Water Conservation Projects in Liaoning Province	Huang Yipeng(52)
Practices And Effects of Constructing the Sandaoshui Ecological and Clean Small Watershed in Sinan County of Guizhou Province	Kong Lingyong, Xie Mingfeng, Wen Linqu(55)

SOIL AND WATER CONSERVATION IN CHINA



No. 7 (Total 532)

Jul. 5, 2026

Application Scenarios of Artificial Intelligence in Assisted Review of Soil and Water Conservation Plans

..... Wang Xiao, Dong Ziyuan, Wang Liming, et al. (58)

Practices and Optimization of Delineating Areas Prohibited for Reclamation on Steep Slopes in Kaihua County of

Zhejiang Province Liu Mengru, Cai Faying, Fang Wen, et al. (64)

Spatio-temporal Evolution and Driving Mechanisms of Soil Erosion in Yulin City from 2018 to 2024

..... Cui Sheng, Li Yawen, Li Congcong, et al. (68)

Characteristics of Semi-humid Evergreen Broad-leaved Forest Communities

..... Jia Lin, Liu Luyao, Ding Yadong, et al. (76)

Farmer Participation Mechanisms and Paths to High-Quality Employment of Soil and Water Conservation

Ecological Construction in Shanxi Province Under Multi-Policies Synergy Wang Jingwei (81)

Laboratory Study on Base Material Optimization and Plant Suitability for Ecological Restoration in Slopes

..... Li Qingqing, Lei Panpan, Xue Qilang, et al. (87)

Improvement Effects of Vegetation Restoration on Soil of the Engineering Disposal Site Jiang Mingming (91)

Preservation Status and Benefit Duration of Soil and Water Conservation Measures in Northwest Liaoning

Region Zhang Tieyang, Chu Limei, Zhu Miaomiao (95)

Characteristics of Carbon Sinks of Soil and Water Conservation Under Different Measures in the Jiaoxi Small

Watershed of Xingguo County of Jiangxi Province Xie Linbo, Wu Xiaoyu, Mo Minghao, et al. (101)

Landscape Stability Assessment and Ecological Network Construction of Riparian Buffer Zones in the Water Source

Area of the Water Diversion Project from Hanjiang River to Weihe River

..... Yin Xin, Xu Guoxin, Zhang Xinping, et al. (105)

Effects of Different Planting Methods on Soil Physical and Chemical Properties in Collapsible Loess Areas

..... Feng Yonglin, Liu Xuelu, Luo Guangfeng, et al. (111)

First Issue 1980 **Publishing Cycle** Monthly

Competent Department

The Ministry of Water Resources of P. R. C.

Sponsor

The Yellow River Conservancy Commission of MWR

Editor and Publisher

Editorial Board of "Soil and Water Conservation in
China" (No. 11 Jinshui Road, Zhengzhou, Henan

450003, China)

Editor-in-Chief Zhai Xuliang

Associate Editor Sun Zhanfeng

E-mail swcc2000@vip.sina.com

URL <http://www.swcczz.cn>

Overseas Distributor

China International Book Trading Corporation
(P. O. Box 399, Beijing, China)

SOIL AND WATER CONSERVATION IN CHINA

No. 7 (Total 532) 2026

Abstracts

Dynamic Changes in Soil Erosion and Water Loss in Ningxia During the 14th Five-Year Plan Period

..... Tao Qingrui, Li Yang, Zhang Guojun, et al.
(Soil and Water Conservation Monitoring Station of Ningxia Hui Autonomous Region, Yinchuan, Ningxia 750021, China) (1)

Studying the evolution trend of regional soil erosion and water loss is a key support for understanding the quality and stability of regional ecosystems. To further analyze the changes in soil erosion and water loss in Ningxia during the 14th Five-Year Plan period, the paper conducts a comprehensive assessment analysis of soil erosion and water loss in the entire Ningxia region based on the CSLE model combined with GIS and RS technologies. The results show that: a) during the 14th Five-Year Plan period, both the area and intensity of soil erosion and water loss in the region exhibited decreasing trends, with the area decreasing by 1 171.66 km², a reduction of 7.47%; b) the areas of soil erosion and water loss in five counties (cities, districts), including Lingwu City, Yanchi County, Tongxin County, Shapotou District, and Haiyuan County, accounted for more than 50% of the total areas of soil erosion and water loss in the region, with Haiyuan County having the largest area of soil erosion and water loss of 2 242.67 km² in 2025; c) attention should be paid to strengthening soil erosion and water loss control in the central arid zone, especially for land use types such as cultivated land, forest land, grassland, and other land. Overall, after years of comprehensive control of soil and water conservation, the ecological environment of Ningxia has improved and is steadily progressing.

Key Words: soil erosion and water loss; evolution trend; CSLE model; land use; the 14th Five-Year Plan period; Ningxia

Paths and Bottlenecks for Value Realization of Ecological Products of Soil and Water Conservation: Based on an Analysis of 35 Typical Cases Nationwide

..... Zhang Jieming¹, Huang Guoqing¹, Xi Zhi², et al.
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2. Shilianghe Reservoir Management Office of Lianyungang City, Lianyungang, Jiangsu 222323, China) (14)

The report of the 20th National Congress of the Communist Party of China explicitly calls for establishing and improving the value realization mechanism for ecological products, and the value realization of ecological products of soil and water conservation has become a core task in soil and water conservation work in the new era. In view of the shortcomings of existing studies that mostly focus on single-region case analyses or accounting method optimization, lacking systematic comparisons of multiple types of cases nationwide and analysis of internal mechanisms, this paper selects 35 typical cases covering 8 major first-level soil and water conservation zones and 7 main value realization pathways to summarize and analyze the paths and characteristics of value realization of ecological products of soil and water conservation, using multiple-case embedded analysis and multi-dimensional comparative analysis. The results show that the 35 cases have formed multi-dimensional and different paradigms, achieving significant and pioneering effects. However, there are still shortcomings, including the lack of a unified value accounting standard system, unbalanced regional development, insufficient market-oriented operation mechanisms, and a relatively weak whole-chain factor support system. The paper proposes targeted suggestions, including establishing a unified value accounting system, improving the whole-chain market-oriented operation mechanism, and strengthening different support for key regions to point the way for subsequent institutional improvement and practice optimization.

Key Words: soil and water conservation; ecological products; value realization; realization paths; typical cases

Analysis of the First Batch of Value Transformation Practices of Ecological Products of Soil and Water Conservation in Guizhou Province: A Case Study of Bishui Small Watershed in Qixingguan District of Bijie City

..... Ning Maoqi¹, Yang Mei¹, Chen Weihua², et al.
(1. Guizhou Province Soil and Water Conservation Technology Demonstration and Promotion Center, Guiyang, Guizhou 550002, China;
2. Bijie Soil and Water Conservation Monitoring Center, Bijie, Guizhou 551700, China) (20)

Bijie City in Guizhou Province has actively explored the concept that lucid waters and lush mountains are invaluable assets. Through a province-city-district three-level linkage mechanism, led by the water affairs department and coordinated by multiple departments, Bijie City integrated multiple resources to realize the value transformation of ecological products of soil and water conservation in the Bishui Small Watershed of Qixingguan District. The total value of ecological products was calculated at 78.882 9 million yuan, including 8.984 million yuan for material supply, 38.55 million yuan for regulating services, and 31.288 9 million yuan for cultural services. Currently, a 10-year management right for ecotourism development and planting has been successfully traded at 5.079 million yuan. Focusing on the entire process of value transformation of ecological products, this paper summarizes the main practices of value transformation of ecological products of soil and water conservation in the Bishui Small Watershed from government leadership, mechanism innovation, scientific accounting, and fair trading, and puts forward suggestions, including improving the scientificity of value accounting, innovating green financial support measures, promoting soil and water conservation carbon sink trading, and exploring the establishment of the renewable energy certificate for ecological products.

Key Words: soil and water conservation; ecological products; value transformation; the first batch; the Bishui Small Watershed; Bijie City; Guizhou Province