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目次

□长江经济带发展战略实施 10 周年征稿□

林旅融合推进水土保持生态产品价值转化交易实践与成效

..... 张利超,邓凯月,赖玮炜,等(1)

江西省重要江河源头生态清洁小流域水土保持生态产品价值转化交易

实践 赵建民,张利超,罗剑林,等(4)

水土保持文化服务类生态产品价值核算与转化路径探索

..... 周广天,张利超,黄在明,等(8)

□新探索新实践□

水土保持碳汇:从理论研究到实践应用的进展与挑战

..... 张文龙,章孙逊,杨伟,等(11)

□新思考新探讨□

水土保持生态产业化价值实现路径研究

..... 李昱彤,周婷昀,李亦辰,等(18)

水土保持生态产品价值的市场化金融实现路径

..... 陈芳,张浩淼,李凯,等(23)

水土保持临时措施与永久措施协同效应量化探讨 李星毅(28)

生态清洁小流域建设成效评价体系探讨

..... 程靖华,倪雪峰,程冬兵,等(31)

□建设项目防与治□

水库工程项目水土保持方案与土地复垦方案中的重叠问题探讨

..... 杨春(35)

移民安置与水土保持协同治理模式、成效与经验启示

..... 张亚强,杜玮,翟朋云,等(38)

南方红壤区高速公路项目水土保持方案编制探讨

..... 葛波,杜妍,陈莉莎,等(42)

黄河流域井工煤矿水土保持高质量发展探讨

..... 屈创,马歆菲,程洋(46)

海上 CCUS 项目陆上工程水土流失防治分析 张国华(50)

□试验与研究□

内蒙古自治区东北黑土区侵蚀沟综合治理现状分析与对策研究

..... 潘英华,姜文达,杨丽娜,等(53)

不同耕作模式对岩溶区坡耕地水土保持效果与土壤肥力的耦合影响

机制 刘正扬,罗志玉,雷龙海(57)

川西高原若尔盖生态功能区综合治理成效评估

..... 李兴隆,俄么足,许磊,等(61)

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半干旱地区河道生态修复与水土保持协同效应研究 赵 垠(65)
 CFPK 稳定与固化沙(土)体的施工工艺研究 姬玉珏,贺琬婷(69)
 杨树根系分布特征及其对土体物理特性的影响
 高旭光,李现伟,王冀鹏,等(73)
 动态淤积条件下蓄水淤地坝渗流稳定研究
 张长波,于坤霞,李 鹏,等(79)
 东北黑土区侵蚀沟治理措施失效诊断与适宜性对策研究
 杜鹏飞,陈 吟,赵 莹,等(83)
 居延海生态调水影响区生态环境改善情况分析 曹夏雨,杜 敏(90)
 □水保强监管□
 聊城市水土保持考核评估实践与发展建议 谢丽丽,姜丽丽(94)
 □小流域治理□
 台州市椒江区水土流失集中区调查与治理策略研究
 朱钰凤,林光军,陈 丽,等(97)
 秦岭生态清洁小流域建设模式探析 张 明(102)
 □县域水保□
 小流域治理生态产品价值实现的困境与发展建议
 李祖驹,顾再柯,付宇文,等(105)
 2021—2025年昌平区水土流失动态分析 孙 梅(110)
 湖北省小流域综合治理的实践探索与创新路径研究
 卢雪丽,金 鸽(113)
 □服务窗口□
 简讯(7)·本刊宣传协作网(118)·2025年度本刊发行前10名(118)
 □四封□
 封一 画卷高家湾:生态治水与文旅交融(安徽省凤阳县高家湾小流域)
 朱维林 供稿
 封二 山东省阳信县大寨沟生态清洁小流域综合治理助力乡村振兴
 赵 萌 供稿
 封三 中国水土保持学会科技产业工作委员会水土保持生态产品
 价值实现沙龙在延安成功举办 本刊
 封四 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
 前插 守护忠州绿水青山 筑牢长江生态屏障——重庆市忠县“十四五”
 水土保持工作显成效 秦仕伦,陈 伟,李仁芳 供稿

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SOIL AND WATER CONSERVATION IN CHINA



No. 6 (Total 531)

Jun 5, 2026

Main Contents

- Practices and Effectiveness of Promoting Value Transformation of Ecological Products of Soil and Water Conservation through Integration of Forestry and Tourism ZHANG Lichao, DENG Kaiyue, LAI Weiwei, et al. (1)
- Practices of Value Transformation Trading of Ecological Products of Soil and Water Conservation in Ecological and Clean Small Watersheds in the Important River Source Areas of Jiangxi Province ZHAO Jianmin, ZHANG Lichao, LUO Jianlin, et al. (4)
- Value Accounting and Transformation Pathways of Ecological Products of Cultural Services of Soil and Water Conservation ZHOU Guangtian, ZHANG Lichao, HUANG Zaiming, et al. (8)
- Carbon Sink of Soil and Water Conservation: Progress and Challenges from Theoretical Research to Practical Application ZHANG Wenlong, ZHANG Sunxun, YANG Wei, et al. (11)
- Analysis on the Value Realization Path of Ecological Industrialization of Soil and Water Conservation LI Yutong, ZHOU Tingyun, LI Yichen, et al. (18)
- Market-Oriented Financial Realization Pathways for the Value of Ecological Products of Soil and Water Conservation CHEN Fang, ZHANG Haomiao, LI Kai, et al. (23)
- Quantitative Discussion on Synergistic Effects of Temporary and Permanent Soil and Water Conservation Measures LI Xingyi (28)
- Evaluation System for the Effectiveness of Ecological and Clean Small Watershed Construction CHENG Jinghua, NI Xuefeng, CHENG Dongbing, et al. (31)
- Repetitive Content Issues Between Soil and Water Conservation Plans and Land Reclamation Plans for Reservoir Projects YANG Chun (35)
- Model, Effectiveness and Experiences of Synergistic Governance of Migrant Settlement and Soil and Water Conservation ZHANG Yaqiang, DU Wei, ZHAI Pengyun, et al. (38)
- Preparation of Soil and Water Conservation Plans for Expressway Projects in the Red Soil Region of Southern China GE Bo, DU Yan, CHEN Lisha, et al. (42)
- High-Quality Development of Soil and Water Conservation in Underground Coal Mines in the Yellow River Basin QU Chuang, MA Xinfei, CHENG Yang (46)
- Analysis of Soil Erosion and Water Loss Control for Onshore Engineering of Marine CCUS Projects ZHANG Guohua (50)
- Current Situation Analysis and Countermeasure Research on Comprehensive Control of Erosion Gullies in the Northeast Black Soil Region of Inner Mongolia Autonomous Region PAN Yinghua, JIANG Wenda, YANG Lina, et al. (53)
- Coupling Influence Mechanism of Different Tillage Modes on Soil and Water Conservation Effects and Soil Fertility in the Sloping Farmland of the Karst Region LIU Zhengyang, LUO Zhiyu, LEI Longhai (57)

SOIL AND WATER CONSERVATION IN CHINA



No. 6 (Total 531)

Jun 5, 2026

-
- Evaluation of Comprehensive Control Effectiveness in the Ruergai Ecological Function Area of the Western Sichuan Plateau LI Xinglong, E Mezu, XU Lei, et al. (61)
- Synergistic Effects of Ecological Restoration and Soil and Water Conservation of River Courses in Semi-Arid Regions ZHAO Yin(65)
- Analysis of Construction Technology for Stabilizing and Solidifying Sand and Soil by CFPK JI Yujue, HE Wanting(69)
- The Root Distribution Characteristic of Poplar and Its Influence on Soil Physical Properties GAO Xuguang, LI Xianwei, WANG Jipeng, et al. (73)
- Analysis of Seepage Flow Stability of Sediment Retention Dams Under Dynamic Sedimentation Conditions ZHANG Changbo, YU Kunxia, LI Peng, et al. (79)
- Determine on Losing Effects of Erosion Gully Control Measures and Suitability Countermeasures Analysis in the Black Soil Region of Northeast China DU Pengfei, CHEN Yin, ZHAO Ying, et al. (83)
- Analysis of Ecological Environment Improvement in the Influenced Area of Ecological Water Regulation in Juyan Lake CAO Xiayu, DU Min(90)
- Practices and Development Suggestions for Soil and Water Conservation Assessment and Evaluation in Liaocheng City XIE Lili, LOU Lili(94)
- Investigation and Control Strategy Study of Soil Erosion and Water Loss Concentration Areas in Jiaojiang District of Taizhou City ZHU Yufeng, LIN Guangjun, CHEN Li, et al. (97)
- Analysis of Construction Model of Ecological and Clean Small Watershed in the Qinling Mountains ZHANG Ming(102)
- Difficulties and Development Suggestions for Realizing the Value of Ecological Products of Small Watersheds Management LI Zuju, GU Zaike, FU Yuwen, et al. (105)
- Dynamic Analysis of Soil Erosion and Water Loss in Changping District from 2021 to 2025 SUN Mei(110)
- Practical Exploration and Innovative Pathways of Comprehensive Control of Small Watersheds in Hubei Province LU Xueli, JIN Ge(113)

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Abstracts

Carbon Sink of Soil and Water Conservation: Progress and Challenges from Theoretical Research to Practical Application

..... ZHANG Wenlong^{1,2}, ZHANG Sunxun³, YANG Wei^{1,2}, et al.

(1. Hubei Water Resources Research Institute, Wuhan, Hubei 430070, China;

2. Hubei Soil and Water Conservation Engineering Research Center, Wuhan, Hubei 430070, China;

3. Institute of Sediments Research, China Institute of Water Resources and Hydropower Research, Beijing 100048, China)(11)

Soil and water conservation effectively enhances ecosystem stability and carbon sink capacity by improving the structure and function of terrestrial ecosystems, and is an important pathway for achieving the carbon peaking and carbon neutrality goals. The paper reviews three types of carbon sink mechanisms of soil and water conservation, summarizes the scales, indicators, main methods, and methodology for monitoring and accounting of carbon sinks of soil and water conservation, analyzes the current status of 29 carbon sink trading pilots across the country as well as the trading market mechanisms for carbon sinks of soil and water conservation, and proposes challenges and suggestions. The challenges for carbon sinks of soil and water conservation include unbalanced research on carbon sink types and insufficient coverage of accounting systems, fragmented monitoring and accounting method systems with high parameter uncertainty, coexistence of carbon market capacity constraints and project implementation difficulties, incomplete policy systems and trading mechanisms, limited value realization pathways, and low social awareness. Future efforts should focus on improving carbon sink assessment systems, refining monitoring and accounting methods, enhancing methodology system, promoting market integration and project implementation, strengthening policy support and trading mechanisms construction, expanding diversified value realization pathways, and increasing social participation, so as to build and improve the standard system for carbon sinks of soil and water conservation and facilitate their integration into the national carbon market.

Key Words: carbon sink of soil and water conservation; carbon sink mechanism; monitoring; accounting; trading mechanism

Analysis on the Value Realization Path of Ecological Industrialization of Soil and Water Conservation

..... LI Yutong¹, ZHOU Tingyun¹, LI Yichen², et al.

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Based on ecological economics and environmental economics theories, the paper focuses on the value realization pathways for ecological industrialization of soil and water conservation. Taking the ecological and clean small watershed of Zhuanghang Town Country Park in Fengxian District of Shanghai as an empirical case, the paper systematically constructed a value realization mechanism covering industrial layout, ecological control, enterprise assessment, value accounting, and tax revenue feedback. The results show that in 2024, the value of ecological products of soil and water conservation in this region reached 159 million yuan, and the composite value of these ecological products was positively correlated with government tax revenue, verifying the feasibility of a closed-loop value realization pathway for ecological industrialization of soil and water conservation. It is recommended to promote this model in regions with prominent location advantages and rich natural resources, to focus on the mode of ecology plus characteristic agriculture or processing in less developed areas to enhance product quality and create geographical indications, and to realize value through ecological compensation transfer payments and carbon sink trading in ecologically fragile areas, thereby accelerating the transformation of ecological advantages of soil and water conservation into regional economic competitiveness.

Key Words: pathway analysis; economic benefits; ecological benefits; value realization; ecological industrialization; soil and water conservation

Determine on Losing Effects of Erosion Gully Control Measures and Suitability Countermeasures Analysis in the Black Soil Region of Northeast China

..... DU Pengfei, CHEN Yin, ZHAO Ying, et al.

(The International Research and Training Center on Erosion and Sedimentation, China Institute of Water Resources and Hydropower Research, Beijing 100048, China)(83)

Erosion gullies development in the black soil region of Northeast China causes severe soil erosion and water loss and threatens national food security. Despite continuous increases in investment for gully erosion control in recent years, the losing effects of erosion control measures remains a problem. Based on field surveys of 206 treated gullies in the black soil region of Northeast China, the paper systematically determines on the losing effects modes and causes of engineering and vegetation measures. The results show that: a) the losing effects of engineering measures mainly presented as foundation subsidence, water erosion and regeneration of new gullies, while the losing effects of vegetation measures mainly presented as plants destruction and low survival rates of plants. The reason for losing effects of erosion control measures is in the coupling of natural and human factors, which can be summarized into three losing effects chains: drainage design defects, insufficient structural stability, and vulnerability of vegetation measures. Based on these findings, the paper proposes the comprehensive control measures principle of erosion gullies, which centered on systematic coordination, local adaptation, and combination of engineering measures and vegetation measures, establishes a classification control list based on gullies activity, and emphasizes that precise and sustainable erosion gully control can be achieved through optimized design, standardized construction, and improved management mechanisms.

Key Words: erosion gully; control measures; determine on the losing effects; adaptive countermeasures; the black soil region of Northeast China