

Regional water conservation is the key to maintain water supply. Based on the data of 2000, 2010 and 2020, this paper takes Jingyu County in the Changbai Mountain as the study area.

storage, of which is 96.2% of total carbon storage in alpine tundra of Changbai Mountain. This is significantly correlated with the wide distribution of typical alpine tundra and relatively high carbon flux (Dai et al., 2002). Table 1 Carbon storage and flux of vegetation in each vegetation type

Biomass(t#183;hm-2)	Carbon flux	Vegetation type	Area
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Estimation of carbon storage in terrestrial ecosystems is vital for research on atmospheric greenhouse gases and global carbon cycle. Based on Landsat TM/ETM+ images, land use / cover changes in Tonghua City of Changbai Mountain area, China during 1986-2008 was analyzed in this study. The carbon storage in terrestrial ecosystems of the study area was ...

The reduction of water storage may cause a series of potential irrecoverable adverse effects on the Changbai Mountain ecosystem, such as droughts (Pokhrel et al., 2021), ...

Abstract In order to maintain the sustainable exploitation of the natural mineral water resources in Changbai Mountain Area with the continuously increasing exploitation intensity, information that is relevant to the exploitation of the mineral water resources from various aspects such as natural, social, ecological and environmental was collected based on ...

This study divides the Mineral water exploitation coefficient into five categories and proposes an assessment of the mineral water exploitation potential based on the ecological base flow, which shows that the flow of Baijiang River spring group is the largest, but it's exploitation potential is normal. Mineral water from the Changbai Mountain basalt area is China's most important ...

We assessed water yield and soil retention services and their drivers in the Changbai mountains region (CBMR) from the 2020 to 2050s using the Integrated Valuation of ...

The construction of a high-resolution dynamic water storage model, driven by the mass load of the huge water storage of the Three Gorges Reservoir (TGR), is the necessary basic data for accurately ...

In summer, Changbai mountain can have brilliant flowers and warm sunshine; It can also fly with snow and wind. Although the mode of heat, humidity and heat has been opened in all parts of the country, at this

moment, when you are in Changbai Mountain, you can still see the snow lightly covered, the mountain wind slightly cool, and the Changbai sea of clouds passing overhead.

The Shanmei Reservoir has a total storage capacity of 6.55 × 10⁸ m³ and effective storage of 4.72 × 10⁸ m³, with the normal water level reaching 96.48 m. It has a ...

Changbai Mountain is the source region of the Songhua, Tumen, and Yalu Rivers. It is a famous concentrated distribution area of high-quality mineral water in China, which has a great economic value. Antu County is one of the main distribution areas of basalt and mineral water in Changbai Mountain. The distribution of mineral water has a strong hydraulic ...

Water & Sanitation Operations ... Changbai Urban Development Project Operations Procurement Notices ... This project will revitalize and develop urban infrastructure, including market infrastructure, across three towns in Changbai County. This will enhance living conditions, generate economic activities and employment, and promote environmental ...

The Natural Forest Protection Project (NFPP) is an ecological restoration project aimed at safeguarding natural forests, and is one of China's six main forestry initiatives. The upper reaches of the Yangtze River represent the main distribution area of natural forests in China, and are an important area for the implementation of the NFPP. A systematic ...

The diatom-based water-table transfer function built in this study provides a new and effective method for quantitative reconstruction of water-table changes in peatlands of the Changbai Mountains.

Changbai Mountain area is an important mineral water storage and development area in China. The hydrochemical composition of mineral water is the decisive factor for mineral-water quality. Based on the hydrochemical data of 74 mineral water samples collected from 2018 to 2020, the characteristics and formation mechanism of the hydrochemical ...

Keywords: water yield, soil retention, future climate change, land use and land cover change, interactive effects, InVEST model, CLUE-S model. Citation: Wang H, Wang WJ, Wang L, Ma S, Liu Z, Zhang W, Zou Y and Jiang M (2022) Impacts of Future Climate and Land Use/Cover Changes on Water-Related Ecosystem Services in Changbai Mountains, Northeast ...

[2020] No.59. All departments in our university concerned: According to the Implementation Plan of Changbai Mountain Talent Project in Jilin Province (JiRenCai word [2019] No.4), Administrative Measures for Talent Support Project in Changbai Mountain Area in Jilin Province (JiZutong word [2020] No.50) and "Notice on Carrying out the Application and ...

Changbai Mountain is a natural mineral water distribution centre and, along with the Alps and the Caucasus Mountains, is one of the world's three largest sources of mineral water (Liu et al. 2010). There is a stable flow

Changbai water storage project

of high-quality mineral water from Changbai Mountain (Zhang 2001) contains minerals and trace elements that are beneficial for human physiology ...

Surface water is one of the major components of terrestrial water storage (TWS). The variation of surface water bodies can change the groundwater recharge and TWS ...

Therefore, Changbai Mountain, a typical high-latitude water tower, which is the source of Second Songhua River, Tumen River, and Yalu River, was selected to analyze the change of water ...

Simulating the hydrological process of a river basin helps to understand the evolution of water resources in the region and provides scientific guidance for water resources ...

Changbai Mountain area is an important mineral water storage and development area in China. The hydrochemical composition of mineral water is the decisive factor for mineral-water quality. Based on the hydrochemical data of 74 mineral water

Peatlands are important carbon pools and stable carbon sinks in terrestrial ecosystems. Studying carbon storage and accumulation characteristics can provide a scientific basis for the conservation and restoration of peatlands. Based on the 2014-2015 survey of the Jilin Provincial Forestry Department on the carbon storage of peatlands in the Changbai ...

Water is an important factor in maintaining the balance of this region's ecosystem. However, our knowledge is still limited on changes in the region's water bodies (Chen et al., 2019). In particular, there is still a lack of research on the temporal and spatial changes of water storage in the Changbai Mountain.

Forest ecosystem structure can improve the forestry hydrological functions, such as water production, regulation of water balance, and water-related carbon storage (Kele?, 2019).The forestry hydrological functions are determined by water availability (Costa et al., 2023).Water availability affects forest ecosystems structure and function by the interaction ...

The Changbai Mountain range is a well-known mountain range in northeast China, bordering the Korean Peninsula in the south (Bao et al., 2010).The total area of peatlands in this region was estimated to 314 km², with an estimated peat storage of 93.8 Tg (Yin, 1991).Peatlands in the Changbai Mountains are located at different altitudes, spanning a ...

Changbai Mountain area is an important mineral water storage and development area in China. The hydrochemical composition of mineral water is the decisive factor for mineral-water quality.

The maximum water depth is 373.2 m, with a capacity to hold 20.4 × 10⁸ m³ of water (Figure 2a). There has been at least one catastrophic flood and lahar due to caldera rim ...

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Changbai Mountain area in China is an important mineral water storage and development area. The hydrochemical composition of mineral water is the decisive factor for mineral-water quality.

The water surface is 2150 m above sea level and the average water depth is 204 meters. It is the deepest lake in China and the border lake between China and Korea; its storage capacity is more than 2 billion cubic meters. Tianchi Volcano at Changbai Mountain is the most comprehensive Cenozoic composite volcano preserved in China (Liu et al., 1995).

The project includes the protection and tending of woods, habitat protection for rare species, conservation of planting resources, removal and renovation of hydropower stations, control of geological hazards, water quality management, protection of urban water sources, ecological improvement of river channels and wetland restoration.

Introduction to the Project 1.1.1 Product Introduction . Changbai Mountain has a long history and is the birthplace of Manchu culture. ... one center and one corridor". It is planned to green 50,000 m scenic area lighting, water supply, drainage, gas supply, power, telecommunications and other supporting facilities. There are about 12 ...

Citation: Yu D., Hu F., Zhang K., Liu L., Li D. (2021): Available water capacity and organic carbon storage profiles in soils de-veloped from dark brown soil to boggy soil in Changbai Mountains, China. Soil & Water Res., 16: 11-21. Abstract: The available water capacity (AWC) is the most commonly used parameter for quantifying the amount of

The available water capacity (AWC) is the most commonly used parameter for quantifying the amount of soil water that is readily available to plants. Specific AWC and soil organic carbon storage (SOCS) profiles are consequences of the soil development process. Understanding the distributions of AWC and SOCS in soil profiles is crucial for modelling the ...

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