

The Inheritance and Development of Agricultural Culture in the Yellow River Basin: A Case Study of the Hetao Region

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Abstract: *The agricultural culture of the Yellow River Basin is an essential component of Chinese civilization. The Hetao region, as a representative area of the upper and middle reaches of the Yellow River, possesses unique agricultural traditions and cultural characteristics. However, influenced by modernization, globalization, and ecological changes, traditional agricultural culture faces challenges in inheritance and development. This paper analyzes the natural environment, historical development, and uniqueness of agricultural culture in the Hetao region, exploring the dilemmas and development paths of agricultural culture in modern society. It suggests that integrating agricultural culture with modern agricultural technology, cultural tourism, education, and digital technologies can effectively promote its inheritance and innovative development, providing practical recommendations for the sustainable development of agricultural culture in the Yellow River Basin.*

Keywords: *Yellow River Basin, Hetao Region, Agricultural Culture, Inheritance and Development, Cultural Innovation*

Introduction

The Yellow River Basin is the birthplace of ancient Chinese agricultural civilization, and the development of agricultural culture in this region has profoundly influenced the formation and continuity of Chinese civilization. The Hetao region, as an important area of the upper and middle Yellow River, has developed a rich agricultural culture due to its unique geographical conditions and long-standing agricultural practices. However, with the advancement of social modernization, traditional agricultural culture faces challenges in inheritance due to industrial structural adjustments, ecological deterioration, and the impacts of globalization. This study aims to explore the historical origins and current status of agricultural culture in the Hetao region of the Yellow River Basin, analyze the challenges it faces today, and propose sustainable development paths and strategies.

1. The Historical Origins and Development of Agricultural Culture in the Hetao Region

1.1 The Relationship Between the Natural Environment and Agricultural Culture in the Hetao Region

The Hetao region, located in the upper and middle reaches of the Yellow River, derives its name from the meandering nature of the river. Its unique natural environment has played a decisive role in the formation and development of agricultural culture. First, the Hetao region is endowed with abundant water resources; the Yellow River and its tributaries provide a stable irrigation source for agricultural production, allowing farming activities to continue over the long term. Additionally, the region features fertile soil, particularly the alluvial plains, which are well-suited for growing high-yield crops such as wheat and corn, establishing a solid material foundation for agricultural production. In terms of climate, the Hetao region has a typical temperate continental climate with distinct seasons and ample sunlight, conducive to the growth cycles of crops.^[1]

The history of water conservancy projects in the Hetao region is long-standing, with local residents historically utilizing the Yellow River's water resources for agricultural irrigation. This unique combination of water and soil conditions has given the Hetao region a significant position in the agricultural civilization of ancient China. Particularly, the development of river management and irrigation techniques has shaped the region's distinctive agricultural production methods and agricultural

culture. Influenced by the natural environment, the agricultural culture in the Hetao region not only relies on the utilization of natural resources but also has developed a sustainable agricultural model that is harmonious with the environment through long-term agricultural practices.

1.2 The Development History of Agricultural Culture in the Hetao Region

The formation of agricultural culture in the Hetao region can be traced back thousands of years to the Yellow River civilization. Since ancient times, this area has been an essential part of Chinese civilization, with the historical development of its agricultural culture closely linked to the country's political and economic progress. During the pre-Qin period, the Hetao region became a crucial agricultural production base due to the water resources provided by the Yellow River. With advancements in agricultural technology and the development of water conservancy projects, the agricultural culture in the Hetao region gradually matured, forming a production system centered on irrigated agriculture.

After the Han Dynasty, agricultural production in the Hetao region entered a prosperous period, particularly under the rule of the Western Han dynasty, when water conservancy facilities were further improved and agricultural production techniques significantly advanced. During the Tang and Song dynasties, agricultural production became increasingly specialized, resulting in a comprehensive agricultural system that integrated planting, animal husbandry, and fisheries, further enriching the local agricultural culture. In the Ming and Qing dynasties, despite experiencing multiple wars and social changes, the agricultural production capacity in the region remained high due to the natural resources of the Yellow River basin, leading to the formation of a distinctive agricultural culture.

Entering modern times, with the acceleration of industrialization and modernization, the agricultural culture of the Hetao region gradually faced impacts from external cultures and modern technologies. Nevertheless, traditional agricultural culture continues to play a vital role in local social life, forming a core component of regional cultural identity.

1.3 The Uniqueness and Typical Characteristics of Agricultural Culture in the Hetao Region

The agricultural culture of the Hetao region, shaped by its unique geographical conditions and historical development, exhibits distinct local characteristics. First, the agricultural culture here is centered on irrigated agriculture, with the establishment and maintenance of the Yellow River water management system playing a crucial role in agricultural production. Water conservancy projects serve not only as a foundation for agricultural production but also as an essential part of local social organization and cultural life. The close integration of river management and agricultural production reflects humanity's high adaptability to and utilization of the natural environment.

Secondly, the agricultural culture in the Hetao region demonstrates significant diversity. Due to varied geographical environments, agricultural production methods in the region possess a high degree of flexibility and variety. In this area, not only is crop cultivation well-developed, but animal husbandry and fisheries are also closely integrated with agricultural activities, resulting in a unique production structure that combines agriculture, animal husbandry, and fisheries. Moreover, traditional agricultural festivals in the Hetao region, such as spring plowing rituals and harvest festivals, fully reflect the richness and social functions of local agricultural culture. These festivals not only promote agricultural production but also enhance community cohesion.^[2]

Finally, the agricultural culture in the Hetao region exhibits a strong ecological consciousness. Through long-term agricultural practices, local residents have developed a sustainable agricultural model that respects nature and rationally utilizes resources. This cultural tradition has important reference value for the development of modern ecological agriculture. By preserving and transmitting the agricultural culture of the Hetao region, it is possible to retain this vital cultural heritage while providing new ideas for the development of modern agriculture.

2. Challenges in the Inheritance and Development of Agricultural Culture in the Yellow River Basin

2.1 Realistic Dilemmas in the Inheritance of Agricultural Culture

In the context of accelerated modernization and urbanization, the inheritance of agricultural culture in the Yellow River Basin faces numerous challenges. Firstly, the advancement of agricultural modernization has transformed traditional production methods, with large-scale mechanization and the

widespread adoption of agricultural technologies gradually replacing traditional farming practices. This shift has marginalized labor-intensive agricultural culture, as farmers' production lifestyles undergo fundamental changes, leading to a gradual loss of traditional agricultural skills, customs, and cultural activities. Secondly, the decline in rural populations and the hollowing-out of villages exacerbate the crisis of cultural inheritance. A significant migration of younger generations to urban areas for non-agricultural jobs has created a generational gap in the transmission of agricultural culture, especially regarding traditional skills and festive practices. The decreasing economic appeal of agricultural activities has also diminished young people's interest and identification with traditional agricultural culture, resulting in weakened cultural vitality.^[3]

Moreover, insufficient emphasis on agricultural culture within the education system contributes to the challenges of inheritance. School curricula often focus on history and language rather than systematic education about agricultural culture. Coupled with the rise of media and digital culture, modern cultural consumption habits are increasingly shifting towards urbanized and internationalized forms, further weakening the dissemination and influence of rural culture. Together, these challenges constitute significant obstacles to the inheritance of agricultural culture in the Yellow River Basin.

2.2 The Impact of Ecological Changes on Agricultural Culture

Changes in the ecological environment significantly affect the continuity and development of agricultural culture in the Yellow River Basin. Issues such as climate change, water resource scarcity, and land degradation directly threaten the sustainability of agricultural production, placing pressure on the inheritance of agriculture-based culture. In recent years, reduced water resources in the Yellow River have posed severe challenges to irrigated agriculture, particularly in the Hetao region, where declining water levels and unstable flows complicate the maintenance of traditional irrigation systems, impacting the cultural practices associated with water management. Additionally, worsening land degradation and desertification negatively affect agricultural productivity, further undermining the foundational aspects of traditional agricultural culture.^[4]

Extreme weather events linked to climate change, such as droughts and floods, have increased agricultural volatility, disrupting the seasonal celebrations and stable transmission of agricultural techniques within cultural practices. The uncertainty in agricultural production has diminished the functional aspects of agricultural rituals and customs. In this context, the ecological foundation of traditional agricultural culture is increasingly eroded, posing severe challenges to its sustainability. Changes in the ecological environment threaten not only the sustainability of agricultural production but also the natural basis upon which agricultural culture relies.

2.3 The Diminished Cultural Competitiveness of Agricultural Culture in a Globalized Context

In the context of globalization, agricultural culture in the Yellow River Basin faces diminishing cultural competitiveness. As globalization progresses, the phenomenon of cultural homogenization intensifies, with international cultural forms and values increasingly permeating local cultures, thereby weakening the influence of traditional agricultural culture. The rise of global consumer culture and the rapid spread of urbanized, modern lifestyles have diminished the appeal of traditional agricultural ways of life and cultural expressions among younger generations. Traditional agricultural festivals and folk activities struggle to compete with modern, commercialized cultural products, leading to a decline in the social presence and recognition of agricultural culture.

Simultaneously, the economic integration brought about by globalization has gradually incorporated local agriculture into the global market, replacing traditional agricultural economic models with modern industrialized agriculture. This transition not only alters production methods but also leads to the gradual decline of labor practices, organizational forms, and cultural expressions inherent in agricultural culture. Due to limited economic benefits and singular forms of expression, traditional agricultural culture struggles to engage in dialogue with modern cultural systems amidst global cultural exchanges and competition. The dual-edged effect of cultural globalization, while promoting cultural exchange, simultaneously undermines the uniqueness and diversity of local cultures.^[5]

3. Paths for the Inheritance and Innovative Development of Agricultural Culture in the Hetao Region

3.1 Integration of Agricultural Culture and Modern Agricultural Technology

Driven by modern agricultural technology, the agricultural culture in the Hetao region can achieve innovative inheritance through integration with technology. Advanced agricultural techniques, such as precision agriculture, green agriculture, and smart farming, provide new tools and ideas for the development of traditional agricultural culture. For instance, precision irrigation technology can enhance the efficiency of Yellow River water resource utilization, thereby sustaining the region's traditional irrigation culture while reducing environmental burdens. The introduction of crop genetic modification techniques and modern machinery can effectively optimize traditional planting methods, boosting agricultural yield and quality. These technological applications not only enhance agricultural productivity but also integrate with traditional culture, preserving its values and uniqueness while adapting to modern agricultural needs.

Moreover, the incorporation of modern technology offers further possibilities for the sustainable development of agricultural culture. Digital preservation and dissemination of traditional skills and farming knowledge can be achieved through technological integration. For example, virtual reality technology can recreate traditional farming scenes, providing the public with new ways to engage in agricultural experiences. This blend of technology and culture not only boosts agricultural productivity but also revitalizes traditional agricultural culture, ensuring a harmonious coexistence of tradition and modernization, and achieving a win-win scenario for cultural inheritance and technological advancement.

3.2 Combining Cultural Tourism with Agricultural Culture

Cultural tourism, as an experiential economic model, serves as a vital pathway for promoting the inheritance and development of agricultural culture in the Hetao region. By integrating agricultural culture with local tourism resources, distinctive agricultural cultural tourism projects can enhance the social recognition and influence of agricultural culture. For instance, the Hetao region can develop agricultural culture experience parks where visitors can participate in traditional farming activities like sowing, harvesting, and irrigation, allowing them to enjoy the fun and cultural significance of agricultural labor. This hands-on experience not only brings tourists closer to traditional culture but also stimulates their interest and respect for agricultural culture, enhancing their sense of identity and participation.

Furthermore, leveraging local agricultural resources, the region can launch distinctive agricultural festivals, such as harvest festivals and rice culture festivals, showcasing traditional skills, agricultural cuisine, and folk performances. This would deepen tourists' comprehensive understanding of agricultural culture. Additionally, by exploring the deep connections between agricultural culture and Yellow River culture, comprehensive cultural tourism complexes can be established, integrating sightseeing, cultural exhibitions, and participatory activities. These complexes can include agricultural museums, farming experience zones, and Yellow River history exhibitions, systematically displaying the unique historical intertwining of agricultural culture and Yellow River culture, while promoting the protection and development of cultural heritage.^[6]

3.3 Education and the Inheritance of Agricultural Culture

Education plays a crucial role in the inheritance of agricultural culture. By integrating agricultural culture-related courses into school curricula, the younger generation's awareness and appreciation of traditional culture can be enhanced. Agricultural culture can be incorporated into the basic education system of the Hetao region, offering specialized courses that teach students about traditional farming techniques, the ecological environment of the Yellow River Basin, and agricultural development. Such courses not only impart historical and cultural knowledge but also help students understand the relationship between humans and nature, fostering ecological awareness and concepts of sustainable development, thus enhancing their sense of identity and responsibility towards local culture.

Vocational education and agricultural education can also serve as significant pathways for the transmission of agricultural culture. By offering courses that combine traditional farming techniques with modern agricultural technology, schools can cultivate interdisciplinary talents proficient in both traditional practices and modern techniques. These courses can cover topics such as the history of agricultural culture, modern agricultural technologies, and sustainable agricultural development, helping

students grasp the essence of traditional farming culture while equipping them with the skills needed for future agricultural challenges.

Conclusion

Through the analysis of the agricultural culture in the Hetao region, this paper reveals its unique historical origins and cultural values while highlighting the real challenges faced in the inheritance of agricultural culture during the modernization process. To effectively address these challenges, innovative pathways for inheritance must be adopted. This includes enhancing the adaptability of traditional farming techniques through modern agricultural technology, promoting the economic transformation of agricultural culture by integrating it with cultural tourism, strengthening the cultural identity of the younger generation through education, and utilizing digital technology for cultural protection and dissemination. In the future, the inheritance and development of agricultural culture in the Yellow River Basin should focus on collaborative protection with the ecological environment, actively exploring the integration of cultural innovation and sustainable development, ensuring that it continues to thrive and plays a greater social role in the new era.

Research Topic

Phase Achievements of the Study on Building the Northern Frontier Cultural Brand in Bayannur.

References

- [1]Li, Xinyi. "Exploring the Development of Agricultural Civilization in the Yellow River Basin from the Perspective of Cultural Education—Review of 'Agricultural Civilization in the Yellow River Basin'." *People's Yellow River*, 2024, 46(08):161.
- [2]Zhang, Shuhao. "Practical Approaches to Inheriting and Developing Agricultural Culture in the Yellow River Basin in the New Era." *China Agricultural Digest—Agricultural Engineering*, 2023, 35(05):91-96.
- [3]Zhu, Xiaona. "Research on the High-Quality Development of Agricultural Cultural Tourism in the Kaifeng Section of the Yellow River under New Tourism Formats." *Tourism Overview*, 2021, (03):82-84.
- [4]Zhang, Zhidong. "Protection and Development of Traditional Agricultural Cultural Heritage in the Ningxia Section of the Yellow River Basin." *Journal of Ningxia Party School*, 2020, 22(02):121-128.
- [5]Zhao, Zhiqing. "The Imaging Communication Practice of Hetao Culture." *Journal of Shenyang Agricultural University (Social Sciences Edition)*, 2023, 25(05):605-610.
- [6]Zhang, Ruikun. "Innovative Communication Forms to Enhance the Communication Power and Influence of Hetao Culture." *Bayannur Daily (Chinese)*, 2023-08-28(001).