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On New Landscape Agriculture in Yunnan Flatland Area

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Abstract With the support of national policy of building Yunnan into a gateway in China's opening up to the Southwest, Yunnan Province offered the great opportunity for second time of starting an undertaking for tourism, and the landscape agriculture welcomes a new development opportunity. On the basis of regional natural and cultural resources, Yunnan Province has created diversified agricultural operating types and colorful farming culture. Thus, it has significant comparative advantage in developing the landscape agriculture, but it should avoid homogeneous competition in construction methods. The landscape agriculture of Yunnan Province should set foot on special features of rural landscape, stick to its "local characteristics", raise core competitiveness of characteristic landscape, and take the ecological and characteristic development road.

Key words Yunnan, Flatland area, New landscape agriculture

As a large agricultural province, Yunnan Province has diverse agricultural resources. Under the impact of new round of urbanization, agricultural landscape is faced with the problem of rapid evolution. Landscape agriculture develops rapidly but also has many problems at the same time. Improper development will cause original rural agricultural landscape to lose regional characteristics. Even, local culture attached to original agricultural environment may disappear. How to study and introduce advanced development concept to strengthen protection of agricultural landscape and realize sustainable development of the landscape agriculture is still a practical problem.

1 Current development situations and existing problems of the landscape agriculture

1.1 Current development situations Modern human society underwent lopsided development of urbanization. Many urban diseases appear and urge us to re-understand ecological functions of agriculture. Agriculture is a natural tie and bridge connecting human beings and nature, and there is an inborn affiliation between human beings and nature. Agricultural landscape is an effective approach for balancing human beings and nature and improving future living quality, and it also plays the role of extending local culture, conserving species diversity, and promoting healthy development of urban ecology^[1]. Development of the landscape agriculture represents eagerness and return of human beings for beautiful natural environment. Development practice of the landscape agriculture in all areas proves that the development of landscape agriculture and rural tourism can bring along transfer of rural labor and increase their income. Specifically, development of the landscape agriculture can: (i) promote full development of agricultural resources, adjust and optimize agricultural industrial structure, extend industrial chain, and drive development of service industries, such as rural transportation, catering, lodging and commerce; (ii) promote various types of communication between ur-

ban and rural areas, supplement knowledge of rural residents about rural areas and agriculture, integrate regional culture with characteristics, so as to enhance urban and industrial support for rural areas and agriculture, and realize harmonious and coordinated urban and rural development. Yunnan flatland area is major urban and rural residential area of Yunnan Province. With the acceleration of China's urbanization process, city size constantly expands, and natural and agricultural landscape is rapidly changing to artificial and urban landscape type. The unique natural, social and cultural combinations of Yunnan Province make its evolution of urban and rural landscape become unique and have great regional difference.

1.2 Existing problems The landscape agriculture develops rapidly in some areas of Yunnan Province, but the overall landscape agriculture of Yunnan Province is still weak and suffers from strong impact of modern urbanization. There are following outstanding problems.

1.2.1 Lack of proper protection of agricultural landscape resources. China's agricultural landscape has deep local color, outstanding advantage of characteristic resources, and huge development potential, but many areas have low agricultural industrialization level due to less developed economy and vulnerable ecological environment^[2]. Especially, Yunnan Province is a mountainous province. It has unique mountain resources and characteristic agricultural products, but also has some bottlenecks brought by remote and backward mountain areas. The esthetic value of modern agricultural landscape has obtained equal position as its practical value, while the short-term effect brought by tourism development exerts huge impact on practical value of traditional agriculture. At present, some areas pay little attention to resource characteristics of original agricultural landscape. They have weak protection awareness, and their follow-up management lags behind. They ignore regional, natural and cultural characteristics of agricultural landscape resources, and build rural areas into back garden of cities. Small areas become similar farmstays, large areas become urban parks. A lot of granges and mountain villas are built. As result, it leads to excessive development of ecologically vulnerable areas and destroys original agricultural landscape.

1.2.2 Neglect of development of agricultural landscape resources in accordance with local situation. Agricultural landscape resource is the combination of regional landscape, has special features of natural landform, terrain, climate, historic culture, engineering construction and art. However, it is still lack of researches on reasonable utilization and protection of these special features in development of landscape agriculture. If using urban landscape construction to guide construction of agricultural landscape, underestimating protection of agricultural landscape resources, neglecting regional condition, and building agricultural landscape into urban cheap recreation ground, it will not only result in gradual damage of agricultural landscape, but also lead to gradual destroy of rural ecological environment and living environment.

1.2.3 Lack of related scientific research professionals. This is reflected in poor infrastructure, shortage of talents, backward planning, indistinct characteristics, irregular management, and low service level. Currently, there are few researches on application of agricultural landscape resources, and the planning and design level are low and lack guidance of specialized personnel and professionals. On the one hand, for a long term, influenced by Chinese traditional culture and aesthetic standards, many domestic scholars study natural landscape and urban green land, while few scholars study aesthetic significance and protection of agricultural landscape resources. On the other hand, there are few specialized planning and design personnel engaged in rural tourism, and it lacks in-depth research of local landscape resources, leading to many existing tourism development schemes failure to guide the construction in a scientific and reasonable way.

2 Analysis

China has established the development objective of resource-saving and environment-friendly agricultural production system. In the process of new socialist countryside construction, rural agricultural landscape may undergo great change. In this situation, regional characteristics based new landscape agriculture will become an integral part and inevitable development trend of modern rural areas. Construction of new landscape agriculture needs grasping several main elements of modern agriculture, such as special feature of agricultural landscape based on regional natural and cultural landscape, realization of core parts of modern agriculture, large scale and ecological function, reasonable allocation of Chinese traditional landscape elements and scientific realization of urban and rural planning.

2.1 Deep cognition of special feature of agricultural landscape Rural development is greatly different in different areas^[4], rural tourism landscape must be constructed in accordance with local situation, with consideration of regional characteristics, and local climatic conditions, habitat features, local cultural features, and local characteristics^[5]. It is not allowed to make simple imitation or only pursue economic benefits, but make no long-term consideration. Yunnan Province is a mountainous province, and its narrow and small area of flatland greatly restricts its agricultural development. However, surrounded mountains lay foundation for regional natural landscape, so the development of landscape agriculture has inborn advantage. The development of landscape agriculture can provide a new agricultural tourism activity

different from other scenic spots, and can make people understand inherent essence of life and nature and enjoy colorful experience in different agricultural landscape. For example, the well-known Yuanyang Hani terrace, although passed on for thousands of years, still can be taken as model of agricultural landscape development and protection for many areas.

2.2 Realization of core parts of modern agriculture "large scale" and "ecological functions" As a carrier of the landscape agriculture, the modernization process of rural areas and agricultural production determines whether it has foundation for development of the landscape agriculture. In vast Yunnan Province, there is a great difference between different areas. However, accelerating development of agricultural modernization and rural reform and realizing basic elements of agricultural modernization are common direction and objective of the landscape agriculture in the whole Yunnan Province, including large-scale agricultural production and ecological agriculture. Large-scale production can increase unit area utilization ratio, increase unit area yield, and realize resource-saving agriculture. Multi-form agriculture based landscape is also a direction of modern human beings in visual appreciation. It is preferred to build high quality agricultural product base, promote concentration of superior and characteristic agricultural products to superior areas, and further increase value of agricultural landscape at the same time of improving quality of superior and characteristic agricultural products and market competitiveness. Ecological agriculture is introspection, reform and excess of the past industrialized agriculture and its fundamental characteristic is concern of ecological and environmental benefits^[4].

2.3 Reasonable allocation of Chinese traditional landscape elements in the landscape agriculture Landscape design is a tourism design activity based on natural environment and also a type of development mode with strong environmental protection awareness. Agricultural landscape design is comprehensive development of rural natural and cultural landscape, sustainable use of rural natural, cultural, and ecological characteristics and environment, and overall planning and reasonable distribution of landscape elements based on ecological, modern and new agriculture. Beautiful mountains and clear rivers are traditional natural landscape in China. Flatland just combines essential elements. The flatland is generally surrounded by mountains, which forms natural ecological protection barrier, while characteristic mountain shapes of different areas become major element influencing landscape characteristic of the flatland. The different color change and visual effect become keynote of the flatland. Yunnan Province belongs to subtropical moist climate zone and has plentiful rainfall, so its water is abundant and remains everywhere. The river that has the landscape significance generally takes on narrow line. Different flatland areas have different rivers. For example, the river in Xiaojie Town of Eshan County of Yuxi City is like a Taiji pattern, its S shaped river course flows through the central flatland and becomes the basic combination shape of mountain and water. If rivers and landscape along river banks form green belt, it not only can effectively protect water, but also can manifest excellent green landscape, and form colorful and dynamic characteristic landscape together with other landscape. Apart from basic elements such as mountain and water, farmland is also the fundamental element of

agricultural landscape and also unique vivid element of Yunnan flatland area. Design and build of agricultural landscape can combine large area of farmland and agricultural production and living system. It is recommended to make scientific arrangement and artistic design of characteristic farmland landscape, build proper farmland landscape with high sci-tech content and economic benefits and sightseeing and recreation functions, and also value reasonable protection and development of traditional building landscape.

2.4 Attaching importance to reasonable influence of urbanization process and change on agriculture

Long-term dual urban and rural system leads to urban and rural separation and deteriorates urban and rural conflict, while the "urban and rural integration" and "five overall arrangements" are intended to realize integrated development of urban and rural areas. Urban and rural space is a complex huge system, the ideal state of mutual integration can eliminate urban and rural opposition and realize harmonious development of urban and rural living environment. In the process of urban and rural integration, human factor plays a leading role in formation of new urban and rural landscape, thus we must attach great importance to reasonable transformation of urbanization for agricultural landscape. With rapid economic development of China, increase of income and extension of holidays, people have more leisure time. In this situation, short-term and recreational suburban tourism develops rapidly. These provide great opportunity for development of leisure agriculture in cities of Yunnan Province, particularly suburban areas of the capital Kunming City. All areas should combine local urbanization level and development trend, take full advantage of superior natural and cultural resources, and actively explore different scale and levels of the landscape agriculture.

2.5 Taking new and characteristic development road After entry to the 21st century, rural tourism has become a prosperous development period. Scenic spots become more, their size is enlarging and functions are extending, and their distribution is also expanding. At the same time of rapid development of rural tourism, selecting proper development mode suitable for self characteristics is of utmost importance. Yunnan Province has superior natural resources and unique cultural landscape. Its tourism industry is in the ascendant, characteristic resource advantage of the landscape agriculture is outstanding, and the development potential is huge. However, it is still restricted by many unfavorable factors, including less developed economy, vulnerable ecological

environment, and low agricultural industrialization level. At present, with the support of national policy of building Yunnan into a gateway in China's opening up to the Southwest, and the opportunity for the second time of starting an undertaking for tourism, the landscape agriculture of Yunnan Province should avoid homogeneous competition in construction methods, fully use advantages of existing mountain and water resources and characteristic agricultural products, raise competitiveness of characteristic landscape, realize scientific and harmonious development of the landscape agriculture, and take the road of sustainable development.

3 Conclusions

Yunnan Province is a large agricultural province in China. Vast area, beautiful natural landscape and long farming development history have created diversified agricultural operating types and colorful farming culture. Thus, Yunnan Province has significant comparative advantage in developing the landscape agriculture^[6]. Especially in the global range, ecological civilization has realized rational return. Besides, Yunnan Province is faced with development opportunities, including transformation of social economic structure, new industrialization, new round of urbanization, and agricultural modernization. Therefore, the practical approaches for development of the landscape agriculture are strengthening rural social security conditions, adhering to local characteristics, and taking the new ecological and characteristic road. In conclusion, the new landscape agriculture has huge development potential and broad prospect in Yunnan Province.

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