

Abstract

In this study, we focus on the ecological and social value brought to people by various bamboo attractions in Nantou County. The main research objective is to investigate the types of social value that bamboo attractions in Nantou County bring to different townships, as well as the trends in their distribution. This study aims to contribute to the improvement of bamboo attraction policies and management strategies.

Method

Study Area

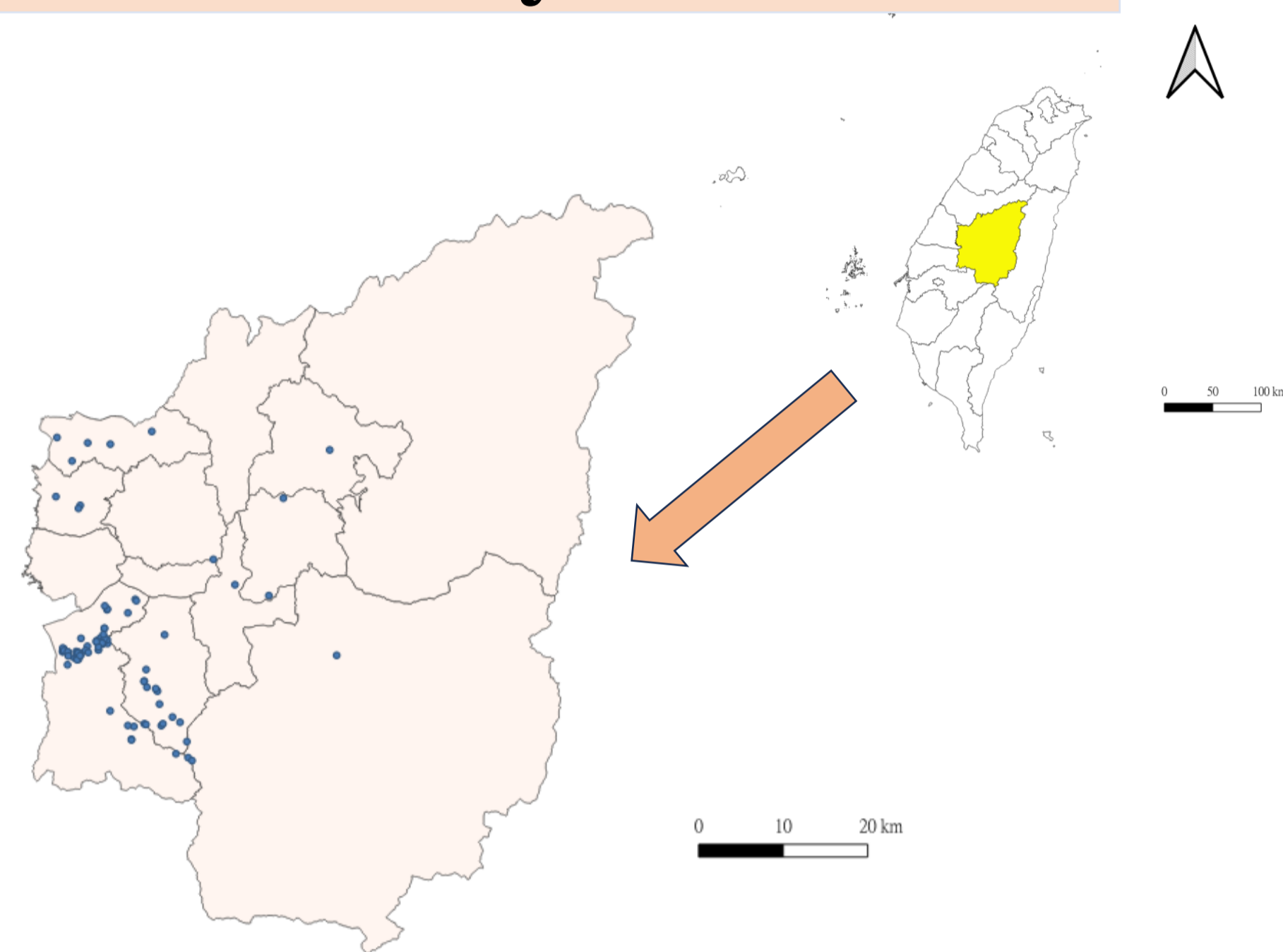


Fig.1 Distribution of Bamboo Attractions in Nantou County

Survey Data



Assigning Social Value to Each Review Using Google Maps Comments After Filtering Out Invalid Reviews.

Model

$$F = 1/D * V$$

F=flows, D=distance(m), V= value

【Gravity Model】

This model uses value and distance parameters to estimate flows between multiple locations. We assuming that flow decreases with distance and increases with social value.

Result

General

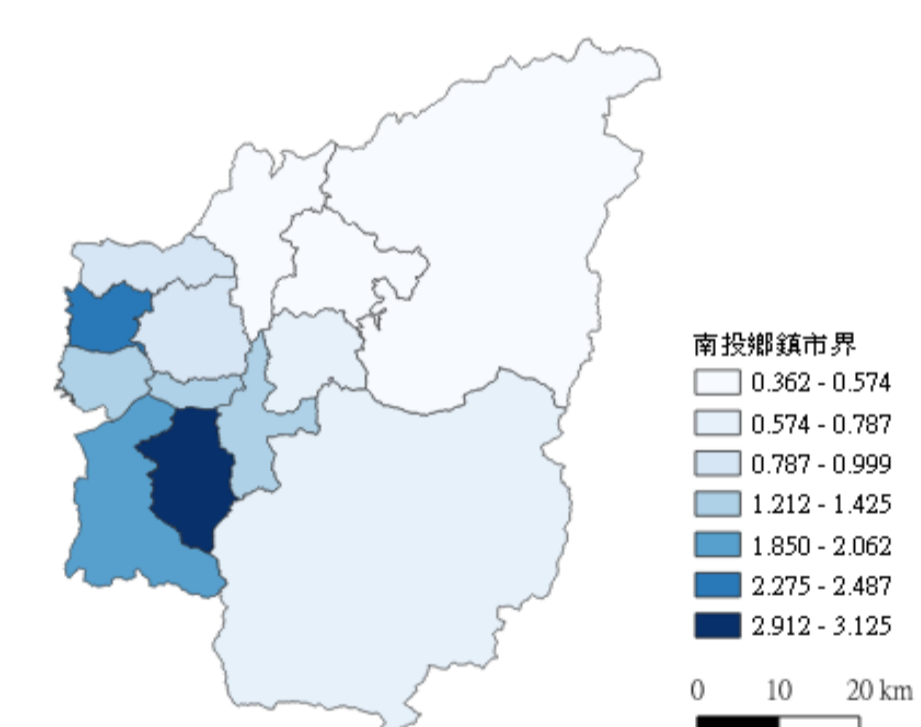


Fig.2 General Social Value in Nantou County

Aesthetic

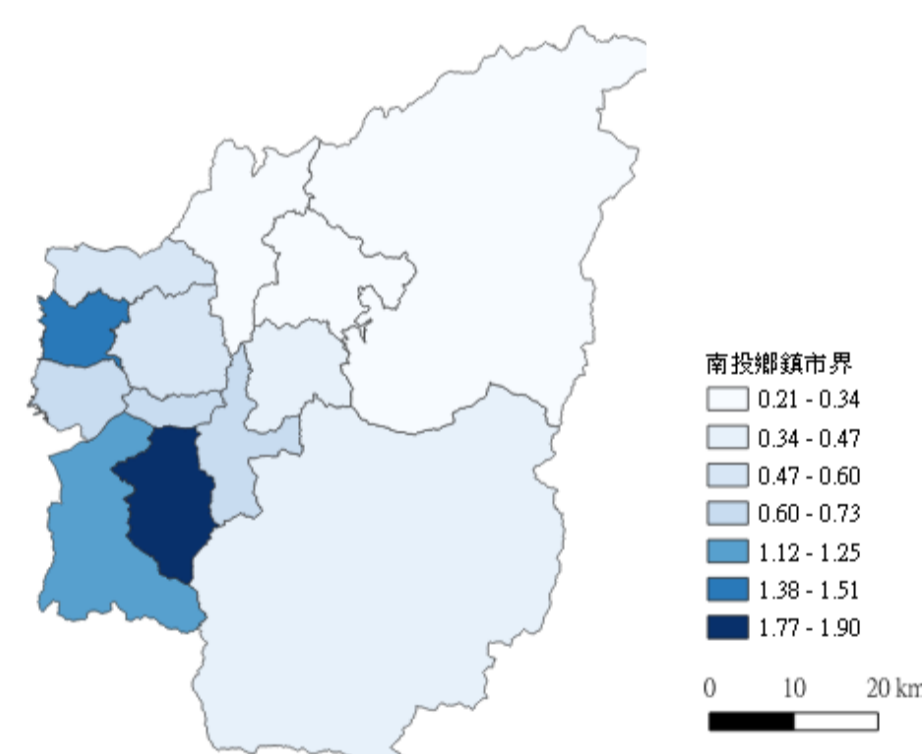


Fig.3 Aesthetic Value in Nantou County

Cultural

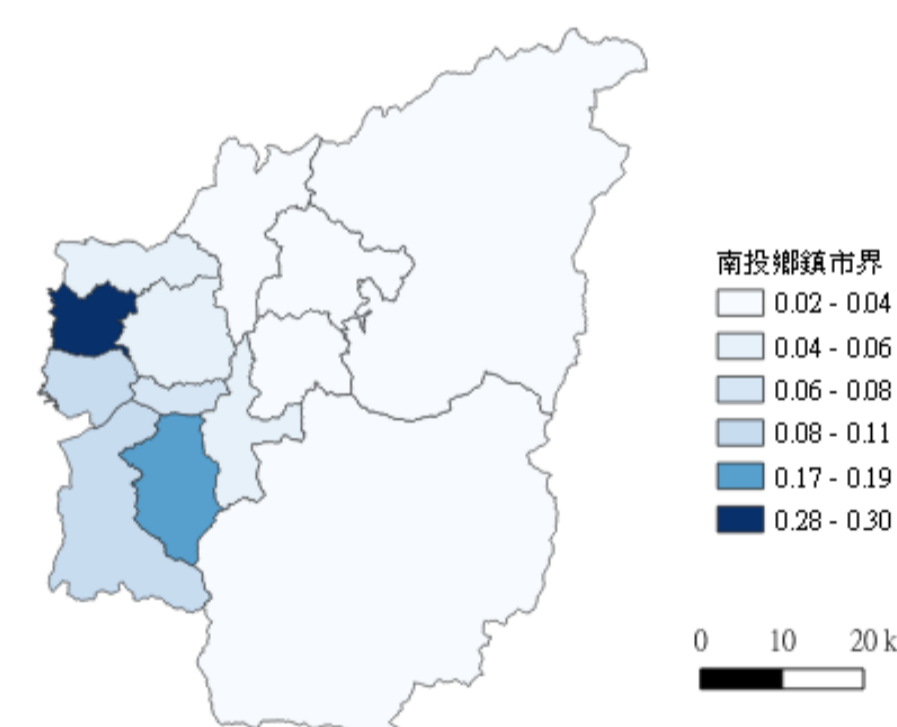


Fig.4 Cultural Value in Nantou County

Entertainment

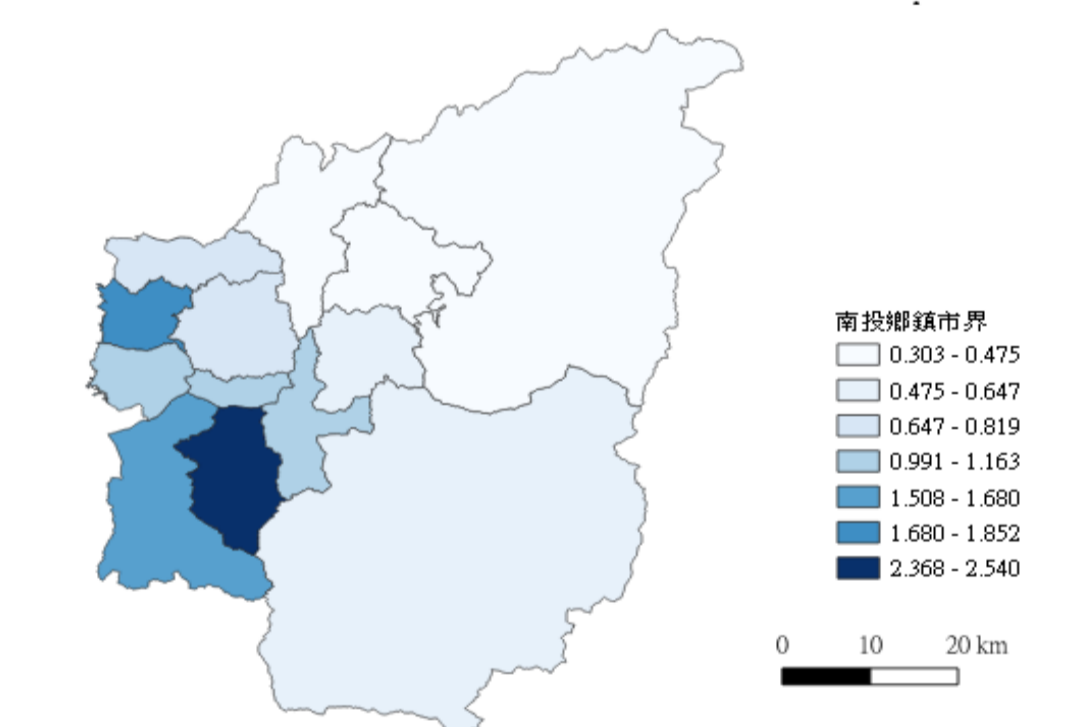


Fig.5 Entertainment Value in Nantou County

Spiritual

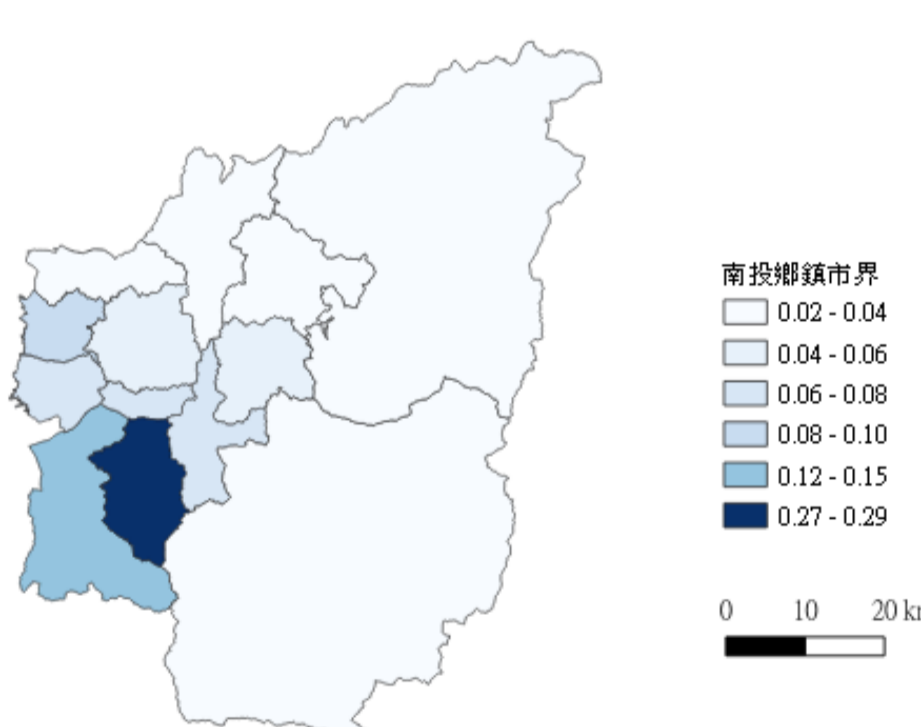


Fig.6 Spiritual Value in Nantou County

Economic

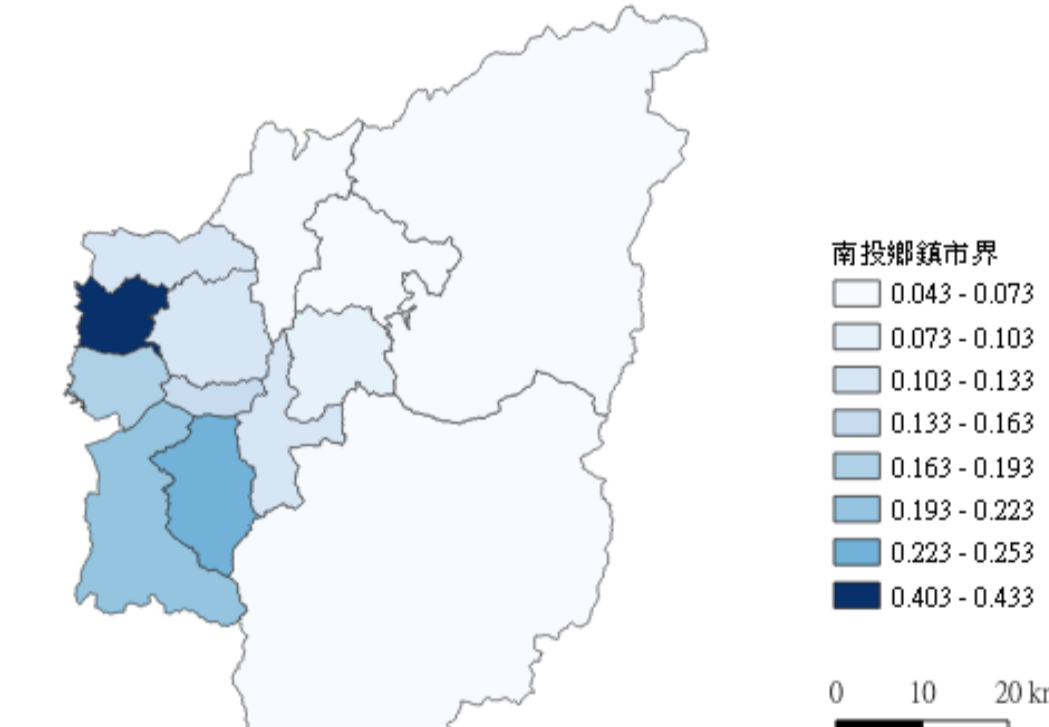


Fig.7 Economic Value in Nantou County

Sustainable

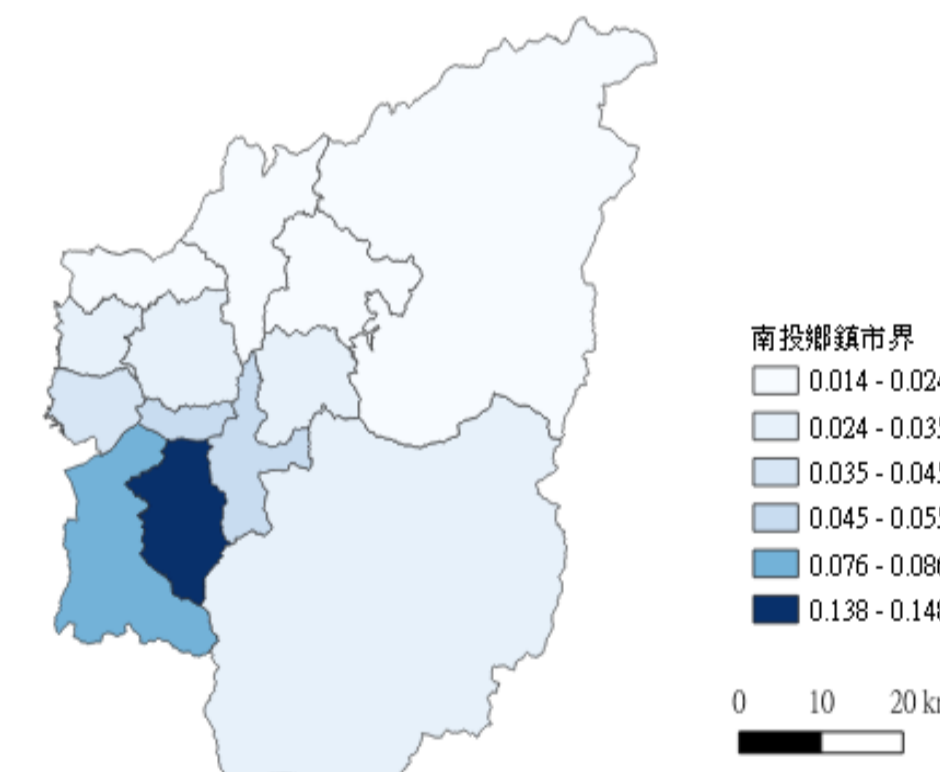


Fig.8 Sustainable Value in Nantou County

Historical

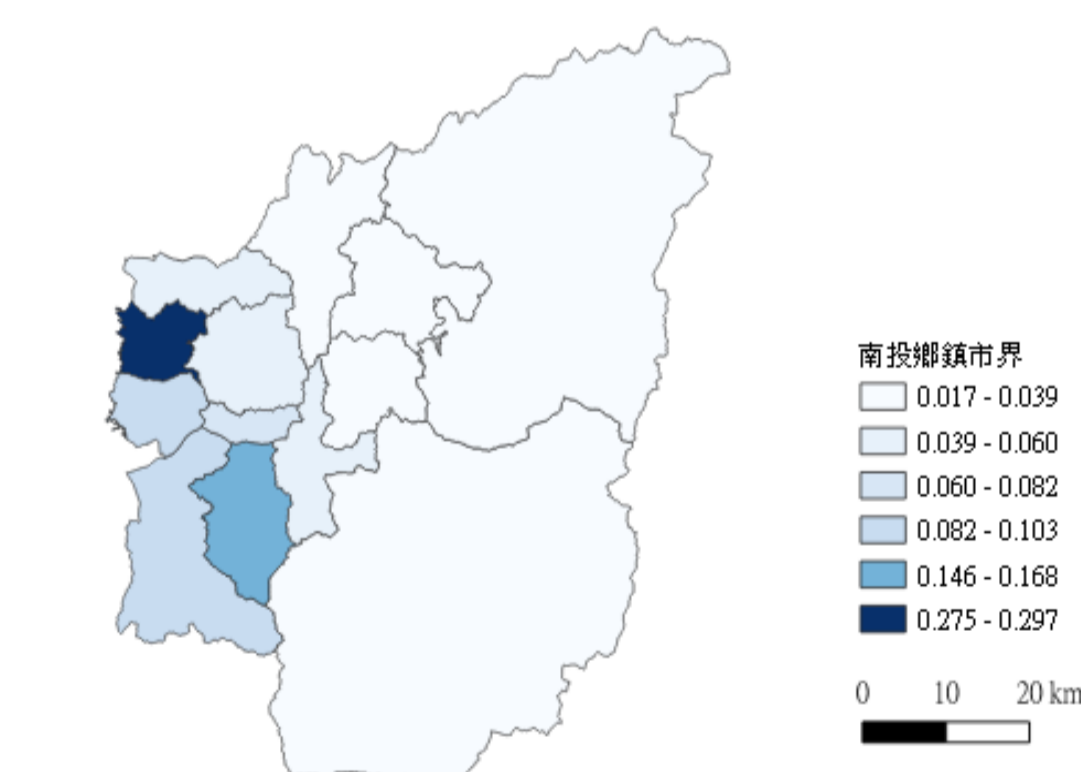


Fig.9 Historical Value in Nantou County

Conclusion

1. Western region of Nantou County exhibits higher levels of social value.
2. Nantou City, Lugu Township and Zhushan township standing out prominently.
3. The mountainous areas of Nantou County (Xinyi Township, Ren'ai Township) exhibit the most pronounced values in terms of sustainable, recreation, and aesthetic appreciation.

Policy Suggestion

1. Bamboo attractions in Nantou County exhibits an uneven trend of development currently.
2. The mountainous areas of Nantou County have the potential for developing bamboo forest ecologies.
3. Efforts could be made to expand bamboo tourism from its core townships to the surrounding areas in Nantou County.