







## V. CONCLUSION

### A. Spatial Distribution Regularity of the Peasant Family Garden of the Xindu District

The spatial distribution pattern of Peasant Family Garden is cluster. There are 50 Peasant Family Gardens which are at 26.7% locate in the buffer zone of 2 to 4km. When the buffer radius is less than 8km, the number of Peasant Family Garden account for 84.3% in total. The peasant Family Gardens which do not exist in that area became less dependent to the center of buffer zone, thus forming its own center-secondary center.

The spatial distribution of the Peasant Family Gardens is relatively dense with the buffer distance from 2 to 6km. The number of the Peasant Family Garden in this buffer zone is at 53.8% of total Peasant Family Gardens. This indicates the buffer distance between 2 and 4km is the densest area filled with Peasant Family Gardens which account for 49.6% in total. A further summarized above all results is the number of the Peasant Family Garden is declined after increased with the buffer distance between 2 and 8km.

There are five cluster zones of the Peasant Family Garden in Xindu district. It includes center district of Xindu town, the Huayuan Community, the Gaoqiang Community, the Machao Community and the Banzhuyuan Community. Similarly, the spatial distribution of the Peasant Family Garden can also classify seven density areas. These areas are the Xibei Community, the Jijia Community, the Garden Community, the Gaoqiang Community, the Puhe Community, the Ma Chao Community, and the Mulan Community. The peasant Family Gardens are so dense in some of these areas that they can not have a well development. Compared to southeastern Xindu district, the spatial distribution of the Peasant Family Garden is balanced in the northwest part.

The peasant Family Garden is well developed in Xindu and Xinfan town. There are some huge Peasant Family Gardens in Banzhuyuan town, while the Peasant Family Gardens grow slowly in the rest of towns. Limited resource, topography, as well as policy support can explain the present development of the Peasant Family Garden situation in different towns.

### B. Influencing Factors

From the above analysis, the spatial distribution of the Peasant Family Garden is affected by the following factors:

1) *The Peasant Family Garden is likely to locate near the scenic spot and industrial zones.*

2) *Owing to the radial-gathering phase of population of Xindu and centrifugal tendency of its industry, the distribution of Peasant Family Garden is random.*

3) *Some factors such as the supporting policies of the government and a better transport system all contribute to the well development of the peasant Family Garden in Xindu, Xinfan and Banzhuyuan town.*

### C. The Issues to be Studied

In the present paper, the Spatial Analysis and Geo-statistical Analysis of the ArcGIS software can explore the distribution regularity of the Peasant Family Garden. But there still exist some problems like the changing roads, rivers, population and the limited information. So the varied time, types and cities of the spatial distribution of the Peasant Family Garden need to go on further study.

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