

Research on the Classification and Measures of Rural Household Waste from the Perspective of Rural Revitalization: Based on the Research Data of Dabie Mountain Old Revolutionary Base Area in Anhui Province

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Abstract

In today's era of poverty alleviation has been realized and then consolidated by the achievements of poverty alleviation, rural revitalization is the trend of future development, and how to achieve rural revitalization is the problem that has to be solved today. The revitalization of rural ways and strategies, but the current living garbage improper disposal or not timely problems will seriously affect and harm the villagers' health and natural environment, it is not conducive to rural revitalization, so this paper focuses on rural garbage classification management problem, from small, contribute to realize the rural revitalization. At the same time, this paper selects the remote village of Dabie Mountain old area in Anhui Province as a case, analyzes the current situation of garbage classification management through field investigation, finds the existing problems and proposes solutions, so as to provide some reference for the garbage classification management strategy of Dabie Mountain old revolutionary base area.

Keywords

Garbage Classification; Rural Revitalization; Environmental Governance.

1. Foreword

With the development of social economy, the improvement of people's living standards, the improvement of the living quality of rural villagers, the output of household garbage has also gradually increased. The unreasonable stacking of garbage and improper disposal will lead to the destruction of the natural environment for human survival, and will harm human health to a certain extent, which is not conducive to long-term development. Therefore, in order to realize rural revitalization, the effective garbage management cannot be ignored. Naturally, the old revolutionary base areas such as Dabie Mountain in Anhui Province should also pay special attention to the treatment of the villagers' household garbage, otherwise it will not only affect the good image of the old revolutionary base areas, but also bring bad effects to the health of the villagers and the future development of Dabie Mountain. On the current garbage disposal, garbage classification is an effective means of governance, to a certain extent can realize waste, recycling, etc., so from the perspective of garbage classification management, according to the actual situation of the dabie mountain old revolutionary base areas, analyse the present situation found the existing problems, and put forward solutions, is to realize the dabie mountain future development and one of the rural revitalization calls, but also for other areas of living garbage classification management to provide certain reference, has practical significance.

2. Dabie Mountain Garbage Classification Status Quo

The Dabie Mountain Old Revolutionary Base Area in Lu 'an City, Anhui Province is one of the old revolutionary base areas. According to China's Dabie Mountain Old Revolutionary Base Area Revitalization and Development Plan, one of the seven key tasks in the plan is to strengthen ecological construction and environmental protection. At the same time, in May this year, the Standing Committee of the National People's Congress has passed the Regulations of Anhui Province on Promoting the Revitalization and Development of Dabie Mountain Old Revolutionary Base Areas, which began implementation in July this year. It also has the strategy of strengthening ecological and environmental protection to achieve win-win environmental and social benefits. In order to realize environmental protection, the effective management of garbage classification cannot be ignored, but also is one of the effective means to achieve a win-win situation of environmental benefits and economic benefits.

At present, the treatment mode of garbage classification in the Dabie Mountain old revolutionary base area is mainly based on the "Outline of the National Rural Environmental Pollution Prevention and Control Plan" issued by the Ministry of Ecology and Environment of China, according to the house-to-house classification, village collection, township road transportation, and county-level treatment mode. Trash cans will be put up in the streets of the old revolutionary base area of Dabie Mountain and at the gates of residents, and classified garbage cans will be set up at a certain appropriate distance to facilitate passers-by and villagers to conduct garbage sorting and treatment. However, due to the late start of garbage treatment in our rural areas, there are some problems in most rural areas, such as weak villagers' environmental awareness and weak consciousness, imperfect related infrastructure, and imperfect garbage disposal process system. At the same time, it is also easy to find that the garbage collection method in the Dabie Mountain old revolutionary base area is relatively chaotic, and the villagers can easily confuse or mix the recyclable and non-recyclable garbage, which causes some difficulties to the garbage classification and is not conducive to the secondary utilization and realizing the circular economy. Therefore, it is urgent to find a more appropriate way of household garbage classification and treatment.

3. Analysis of Garbage Classification and Management Problems in Dabie Mountain

3.1. Weak Awareness of Garbage Classification

At present in remote rural areas, most of the family village staff for the old man and children, young people or work outside, or go out to study, etc., and the old man's education is far less than the city, the concept of garbage classification completely unknown or a little knowledge, it will cause a certain difficulty of garbage classification management. Even if there are young people who stay in the village, they may not properly understand the concept of garbage classification and cannot be effectively classified. Of course, there are also villagers with insufficient consciousness, whose public awareness is relatively weak. Without the constraints of relevant laws and regulations and the supervision of relevant personnel, they will not be required to carry out garbage classification, which will cause some difficulties for the garbage classification and management work.

3.2. Relevant Laws and Regulations are not Clear

Although the Dabie Mountain old revolutionary base area has introduced relevant laws and regulations to promote environmental protection and ecological resource conservation in the Dabie Mountains. However, there are no clear restrictions and regulations on the specific implementation project of garbage classification and treatment project. China's urban restraint

regulations on garbage classification are the most stringent in Shanghai area, among which the most stringent and the most significant constraint effect is that, if the garbage classification is not in accordance with the provisions will be punished, and this regulation will be implemented to individuals and subordinate units, its binding force can be imagined. China attaches more importance to garbage classification in urban areas than in rural areas, which is also one of the reasons for the imperfect laws and laws of rural garbage classification. The environmental awareness of rural villagers is relatively weak. If there are no relevant laws and regulations on garbage classification, the effect of rural garbage classification management will be imagined.

3.3. Imperfect Infrastructure

Through the field visit to the Dabie Mountain old revolutionary base area, it is found that the relevant infrastructure of garbage classification and treatment in the Dabie Mountain is not perfect, and there is no infrastructure for the whole garbage treatment process from classification to transportation and treatment, but there are only the corresponding garbage classification points and the final treatment stations. As the villager's garbage increment is too much, its infrastructure has not been upgraded, use is not convenient, even too much garbage stock, and cannot get timely and effective treatment, cause garbage dump, to residents' environment, but also unable to timely classification of recyclable garbage and unrecyclable garbage, make recyclable garbage shall not be recycled, cause a waste of resources.

3.4. Unreasonable Classification Mode

There are many kinds of rural household garbage, which is only divided into recyclable garbage and non-recyclable garbage, which will be difficult for villagers to distinguish, thus having a certain impact on garbage classification and treatment. If the villagers with classification awareness and environmental protection awareness cannot correctly and effectively identify the garbage, and put the garbage wrong, then it will also affect the governance effect. So only use different garbage can be recyclable and not recyclable two categories, cannot meet the demand of rural villagers on garbage classification, such as rural farmers used waste fertilizer, batteries, disposable goods, kitchen waste if into a class, then will cause a waste of resources at the same time, affect the recycling efficiency.

4. Garbage Classification and Treatment Solution Measures

4.1. Cultivate the Villagers' Public Awareness

Public awareness is needed to be subtly input in life, so that villagers can cultivate their environmental responsibility and awareness from their hearts, so that villagers can form good living habits and garbage classification order. Spiritual level has a variety of means, can be effective publicity, publicity and education of the villagers, such as through the village speech, the village board of the public, door-by-door education, using multimedia publicity, at the same time, let garbage classification into the campus, strict requirements for students, let the students to drive the parents together for garbage classification. It can not only start with oral publicity, but also carry out publicity of activities according to the characteristics of rural villagers, so that the villagers can effectively participate in the task of garbage classification, and cultivate a conscious awareness of garbage classification. For example, we can hold activities similar to garbage classification, advocate villagers to participate actively, identify various types of garbage, and carry out garbage sorting activities, and give material rewards to many types and picking personnel, so as to stimulate villagers' determination to participate and strengthen their awareness of garbage classification.

4.2. Establish a Complete Garbage Classification System

The importance of garbage classification system for the effect of garbage classification and management is self-evident. Garbage classification system is the premise of garbage classification and management. Only with a relatively complete and appropriate garbage classification system can we achieve the efficient management of garbage classification. Garbage classification is the basis of realizing garbage terminal treatment. Only with reasonable and effective garbage classification can the final effect of garbage recycling and effective secondary utilization be realized. Garbage classification system is including garbage classification, delivery, storage, and transportation and final treatment of a complete set of system, different areas of the garbage classification system has different characteristics, because around, district, clubs (area), each village geography, economic development level, enterprise recycling waste ability, residents sources, living habits, economic and psychological capacity is different, the garbage classification system will be different. Therefore, the garbage classification system should be set up according to the characteristics of regions and residents to adapt measures to local conditions.

Dabie Mountain old revolutionary base area is a tourist attraction, with a large flow of people, not only local residents, but also tourists to travel. Therefore, the garbage classification system in the Dabie Mountain old revolutionary base area should be considered in many aspects. For example, the location of the garbage delivery point, the interval between the scenic area cannot be too far, because the scenic area has large turnover and more vendors, easy to produce garbage; and the location of the village street or street area, such as hotel gate, school area and market area. About garbage classification after storage and transportation, due to the dabie mountain old revolutionary base area is the particularity of the scenic spot, the truck frequency is more frequent, in the garbage storage station in a timely treatment, recycling, not recycling garbage or transport to the county level or reasonable treatment with the local garbage disposal station. From garbage classification, delivery to transportation and storage and final treatment, a complete system is formed to improve the effect of garbage classification and management.

4.3. Implementing the Diversified Fund Guarantee

No matter how strong the villagers' awareness of environmental protection and garbage classification is, and no matter how perfect the regional garbage classification system is, without matching infrastructure and certain capital investment, it will become a bubble. For garbage classification of infrastructure investment should be according to the garbage classification system for reasonable planning, to form a complete set of operation system, from the early stage of the garbage classification bins or garbage cans, to transport garbage truck, cleaning truck, and the final garbage recycling or processing facilities, etc., these all need capital investment. The state should treat the rural funds in batches, which can be subdivided into rural garbage classification and management project funds, so that the funds invested by the state can be used reasonably and effectively. At the same time, the local government should supervise the use of the funds invested by the state to ensure the correct and reasonable use of the invested funds. At the same time, in addition to the national targeted fund investment, we can also increase the fund investment of garbage classification and management projects through other ways, such as fundraising, local fiscal revenue, etc. If conditions permit, donations can be collected from local residents, and the funds can be used for the purchase of local garbage sorting infrastructure; garbage sorting infrastructure is public resources and can be purchased with non-directional financial funds. Through a variety of ways to ensure the capital investment of related infrastructure, for the garbage classification and management of the escort.

4.4. Strengthen the Responsibility of Multiple Subjects

Garbage classification and management involves more subjects, whether individual residents, or enterprises, or the government, all have their responsibilities and rules to abide by. Not only should local residents enhance their awareness of garbage classification and carry out garbage classification consciously, but the local government should also fulfil their supervision responsibilities, supervise and test the local garbage classification management effect in real time, and adjust the garbage classification system and related policies according to the effect; and local enterprises should also take the lead to carry out garbage classification consciously and set up their applicable garbage classification system within the enterprise. There is a relationship of mutual supervision between the subjects involved in garbage classification management. The government can supervise the individual local residents, restrain the local enterprises and institutions, and the individuals can also supervise the enterprises and local governments. There is no subordinate relationship between the mutual subjects, which is a cooperative relationship of mutual supervision and mutual cooperation. Different subjects should participate in the garbage classification and governance to a certain extent, or participate in the initial garbage classification process, or participate in the development of relevant garbage recycling facilities, and they should carry out the garbage classification and governance to different degrees to improve the governance effect.

5. Sum up

The traditional rural garbage disposal method is mostly incineration or landfill. This way will not only produce harmful gases to damage the large natural environment relied on by human beings, but also destroy the land and soil, and also affect human health to a certain extent, which is an undesirable garbage disposal method. Moreover, in the current era of rapid economic development, the amount of household waste produced in both urban and rural areas has increased sharply, and the effective treatment of household waste is one of the effective ways to achieve rural revitalization. Garbage classification is to start from the source, garbage classification, so that the later recycling, recycling, which is one of the important ways to protect the environment and save resources. At the same time, garbage classification and waste utilization can select those items that can be used twice without secondary processing, which not only helps to inherit the traditional virtues of thrift in China, but also helps to improve the civilization of rural villagers, build a civilized countryside, and realize rural revitalization. And this paper in the dabie mountains in Anhui province, for example, from the perspective of garbage classification management, first describes the present situation of the dabie mountain garbage classification management, and problem analysis, give the corresponding solutions, common regional characteristics of the dabie mountain old revolutionary base areas to create beautiful home environment contribution, at the same time to improve garbage classification management effect gives certain reference.

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References

- [1] Yiqing Mountain. Research on the Classification and Treatment of Rural Household Waste --is based on the pilot practice survey of s province [J]. Yunnan Social Sciences, 2019 (03): 62-70.

- [2] Zhang Chunling, Fan Murrn. Factors influencing factors and countermeasures of rural household waste classification and management [J]. Journal of Hebei University (Philosophy and Social Sciences edition), 2021,46 (03): 101-110.
- [3] Research on Rural Household Waste Classification and Treatment under the Vision Area of Qian Xiaoxia Rural Revitalization [D]. Anhui University, 2021. DOI:10.26917/d.cnki.ganhu. 2021.001888.