

Discussion on the Key Points of Forest Seedling Raising Technology and Afforestation Technology

Dongmei Hou

Yangquan Shinaoshan State Owned Forest Farm, Yangquan, 045000 Shanxi, China

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Abstract: At present, with the rapid economic development, the country pays more and more attention to the ecological environment. The business itself focuses on the realization of interest goals, and does not reduce the damage to nature. Therefore, the forestry seedling technology has become the key to effectively improve the natural environment. The survival rate of traditional seedling raising technology is relatively low, the growth rate of trees is relatively slow, and the overall afforestation efficiency is low, which is difficult to alleviate the current problem of water soil loss. Therefore, we should introduce more advanced seedling technology, adjust measures to local conditions, strengthen management, and promote more sustainable development of forestry. In this paper, the key points of forestry seedling raising technology were analyzed and discussed in combination with afforestation technology, based on the current situation of forestry development.

1. Introduction

With the increasingly serious water and soil loss and frequent natural disasters, people begin to realize the importance of afforestation and seedling breeding, which is the key means to improve the ecological environment. The development of forestry has greatly contributed to China's environmental protection. Through afforestation, the soil environment and air quality can be effectively improved. It can be seen that in the process of forestry seedling raising, attention should be paid to the development of seedling raising technology and the research of afforestation technology, and the role of afforestation projects should be fully played to create a better living environment for people.

2. Current Situation of Forestry Development in China

2.1 Lack of Rationality in Forestry Planning

In the process of forestry development in China, great problems have been exposed. The planning is lack of scientific rationality, the technology needs to be improved, and the management is not perfect. The orderly development of forestry can protect the ecological environment on which human beings depend and promote the balanced development of society. From the perspective of national strategy, attention must be paid to it. If we want to promote the development of forestry, we must make scientific and reasonable planning and elaborate design. Only by ensuring that the planning is scientific and reasonable, can the later management process be more smooth. From the national level, it pays more and more attention to ecological environment protection. In terms of overall planning, governments at all levels have put forward clear requirements. However, in general, there are still great problems in controlling some details, and relevant planning has not been implemented based on the actual situation of development. You can refer to the planning experience made by some regions with better forestry development, so as to improve the forestry vaccine efficiency. There is a vital relationship between the rational planning of forestry and the orderly development of technology. From the perspective of planning, factors such as time and place of seedling breeding must be fully considered. From the perspective of planning, we must also pay attention to the improvement and optimization of technology. Experts can go to the field to

investigate, learn advanced technologies at home and abroad, and accumulate rich experience to ensure the scientific and appropriate forestry planning.

2.2 The Technology of Afforestation and Seedling Raising Lags Behind

Afforestation technology involves the whole process of seedling planting and grafting. From the perspective of traditional afforestation technology, the accuracy needs to be improved, the application is not widely enough, the use efficiency is generally low, there is no special afforestation personnel to monitor, and problems in the process of vaccine afforestation cannot be found in time. From the national level, there is no clear technical standard for seedling raising and afforestation, and there is no full recognition of the importance of research and development of forestry afforestation technology. Compared with developed countries, China's forestry technology level needs to be improved, and there is no understanding of the scientific and reasonable setting of the core points of seedling raising and afforestation process. In terms of tree species selection and land treatment, there is no strong technical support. In the process of field management, great problems were exposed, which seriously affected the orderly development of forestry in China.

2.3 Lack of Diversity in Management Methods

There are great problems in forestry management methods. We should not only manage forest farms, but also fully realize the importance of managing forestry seedling technology and afforestation measures. We should fully and effectively implement these two key technologies, identify relevant responsible persons, and adopt information management methods to ensure effective improvement of management efficiency. From the current point of view, in the process of forestry management, the management method is too extensive, many details are not well controlled, and the overall efficiency needs to be improved. From the perspective of management personnel selection, due to the lack of systematic training, the professional level and moral quality of forestry management personnel are generally low. In the process of management, the previous single management method is still used, which seriously affects the orderly development of forestry in China.

3. Key Points of Forestry Seedling Technology

3.1 Select a Good Nursery Environment

From the perspective of forestry afforestation project, seedling raising is a basic work. The quality of seedling raising technology will have a great impact on the future growth of plants. In order to ensure the orderly growth of seedlings, a growth environment must be created for them, so that the survival rate of seedlings can be guaranteed. To ensure the normal growth of seedlings, we must create a suitable soil environment for them. To ensure the quality of the land where the seedlings grow, it is also necessary to scientifically and reasonably control the factors such as light and water conservancy for the growth of seedlings, so as to ensure the sufficiency of nutrient elements and create a good environment for the growth of enterprises.

3.2 Strengthen Land Preparation Technology

Land preparation technology belongs to the core work of forestry seedling cultivation. Before the official sowing, the land must be systematically renovated, based on the local climate conditions, to promote the orderly development of land preparation. For different regions, there are great differences in climate conditions and land preparation methods. If the precipitation in a certain area is relatively small, we must pay attention to the depth of cultivated land, so that the land has sufficient water resources, so that the soil can maintain appropriate humidity, so that the plants have enough water during the growth process, so that the quality of plant growth can be guaranteed. Corresponding treatment measures shall be taken according to the change of seasons and environment, and land preparation shall be carried out in appropriate seasons to avoid sudden frost heave. In general, it is necessary to complete the farmland work in autumn to avoid the impact of bad weather on the orderly work in winter and ensure the normal planting in spring. The quality of

seeds must meet the relevant requirements of planting, ensure the scientific cultivation method, and reasonably promote the effective promotion of seed germination rate.

3.3 Good Water Supply Management

To ensure the quality of vaccines, water supply management must be done well. The temperature is relatively high from July to September every year, and the growth rate of seedlings is very fast. In this case, sufficient water must be given to the seedlings, so that there is no water shortage during the growth process, and the overall growth rate of seedlings is increased. If we do not pay attention to the water supply management of seedlings, if the temperature is relatively high, the speed of water volatilization is relatively fast, and the seedlings can be used up, even appear in serious cases. Therefore, it is necessary to know the local weather and temperature conditions. Even if the weather is very hot, it can ensure that the amount of plant irrigation is sufficient. In case of long-term rain weather, the watering amount of seedlings should be appropriately reduced, and the drainage work should be done well to avoid the long-term accumulation of rain affecting the growth of seedlings, waterlogging and affecting the survival rate of seedlings.

3.4 Do a Good Job in Pest Control

In the process of forestry seedling raising, plant diseases and insect pests must be effectively controlled to provide a good environment for plant growth. In the process of vaccine, the growth cycle of plants is relatively long. In this process, due to the influence of various factors, plants are vulnerable to many pests and diseases, which will bring extremely adverse effects on the normal growth of plants. Therefore, in the process of vaccine work, it is necessary to deeply observe the growth of plants, track and register whether there are seedling diseases and pests, do a good job in prevention, and solve the problems of diseases and pests. Carry out targeted treatment according to the characteristics of the disease. Pesticide spraying is used to solve the problem of diseases and pests, so that plants can grow normally.

4. Key Points of Afforestation Technology

4.1 Select Reasonable Afforestation Methods

There are many methods of forestry afforestation, and each method is very different. Therefore, when selecting afforestation methods, we must base on the actual situation, take into account the entire local climate and environment, and adopt corresponding afforestation methods to achieve good afforestation results. First of all, planting and afforestation methods. Select appropriate afforestation seeds and sites, complete seed sowing, save time and energy, and simplify the whole process of seedling raising. This method of afforestation is relatively simple, and the requirements for staff in all aspects are relatively low. However, after the sowing is completed, it is necessary to do a good job in the later management, and carry out scientific and effective management of all situations in the process of plant growth. Secondly, the seedlings shall be cultivated in advance. When the root system of the seedlings grows to a certain extent, they shall be moved to the afforestation site under the appropriate environment. In this way, it can ensure that the seedlings have a good growth environment in the early stage and make the growth of seedlings more stable. However, the transplanting of saplings must be done well, so as to achieve good transplanting effect, ensure the high integrity of saplings, and prevent the seedlings from being damaged due to excessive extrusion of outgoing lines during the transplanting process, which will have a great adverse impact on their subsequent growth. Finally, cutting afforestation method. To select this method, you must select the cuttings within a specific length and coarseness range, and put the cuttings into the soil according to a certain distance. This method requires the staff to have high technical ability, and must do a good job in the details during the work, so that good results can be achieved.

4.2 Choose the Right Planting Time

The survival rate of plants can be guaranteed by selecting suitable planting time and planting saplings in a suitable environment. Generally, afforestation is carried out in spring. At present, the forestry afforestation technology is getting better and better. In the process of carrying out various work, we must make adequate afforestation preparations and formulate scientific and reasonable afforestation plans, so as to ensure the overall effect of afforestation. It is particularly important to deal with seedlings. Effectively deal with the leaves of seedlings, so that the seedlings can grow normally in the later period and ensure the survival rate of seedlings[1].

4.3 Improve the Working Ability of Staff

If you want to improve afforestation technology, you must pay attention to the effective improvement of staff's working ability. In essence, afforestation workers are important executors of afforestation work, and they must constantly learn professional knowledge and work skills in the process of carrying out various work. Fully combine the theory and practice I have learned, understand my job responsibilities, and fully demonstrate my professional working ability in the process of carrying out various work. In the process of afforestation, each staff member must have a deep understanding of the performance of various trees and the characteristics of their growth and development at each stage. Effective management and protection measures shall be taken according to the actual situation of tree growth. The staff must fully understand the phenomenon of pests in different posts and master scientific and reasonable treatment methods to fully solve the problems of pests and diseases and ensure the quality of plant growth.

5. Key Points of Forestry Seedling Raising Technology and Optimization Measures of Afforestation Technology

5.1 Improve the Quality of Seedling Work

In the process of afforestation, the quality of seedlings is closely related to the quality of plant growth in the future. Only by ensuring the health of seedlings can we promote the orderly construction of forestry and maximize the economic benefits of forestry. Tree seedlings have the dual attributes of means of production and commodities. In the process of forestry production, various demands must be fully and effectively considered, in which the growth adaptability of trees must be understood. Effectively control the market rules, select corresponding seedlings for planting, base on the basic laws of market development, protect the environment, and increase the economic benefits of the forestry market. Relevant departments and forestry workers must fully realize the importance of forestry development, strictly follow the relevant laws of forest planting development, pay attention to the deep innovation of the concept of tree seedling, improve various technologies to make forestry objectives develop towards industrialization, and ensure the quality of seedling cultivation.

5.2 Clarify the Positioning of Seedling Cultivation

Take corresponding vaccine forms based on different regions and environments to ensure the quality of vaccine work. For different regions, there are great differences in soil environment and climate conditions, and there are also great differences in various plant growth environments. As planting personnel, they must have a systematic understanding of various situations, choose the corresponding environment from a professional perspective, promote the orderly development of planting, and ensure the survival rate of plants. In the process of work, forestry staff must pay attention to the summary of experience, understand planting conditions, planting methods and other factors, based on the local actual situation, promote the orderly development of various planting work, so that the economic benefits of planting work are continuously enhanced, and promote the effective improvement of plant growth quality. From the perspective of relevant expert groups, it is necessary to understand the local environment, constantly summarize the experience of vaccines in the work process, systematically analyze the past vaccine data, and fully define the specific

positioning of forestry seedling work, so that the vaccine work can develop in the direction of orientation, and promote the effective enhancement of the development efficiency of seedling work [4].

5.3 Adhere to Sustainable Forestry Development

At present, people from all walks of life pay more and more attention to the national forestry development, which is of great constructive significance. Ensure the scientific and reasonable forestry construction, improve the quality of forestry afforestation development, and continuously improve the development effect of forestry afforestation. Ensure the efficiency of forestry development, show the great value of forestry development, promote the orderly development of the national economy, and provide adequate guarantee for it. To some extent, the core of forest cultivation is an important guarantee for the quality of forestry development, which can enhance the quality of forestry development, improve the ecological environment and promote the orderly development of forestry. At present, the speed of economic market development is getting faster and faster, and all fields are developing rapidly. Only by fully reflecting the huge advantages of forestry development, can we show the great value of forestry and make forestry develop towards integration.

6. Conclusion

On the whole, forestry resources will be very important to the social development of our country. Through the photosynthesis of plants, it can purify the air and increase the oxygen content in the air. At the same time, it can also strengthen the stability of the soil itself, thus reducing the phenomenon of water and soil loss. Therefore, we should strictly control the forestry afforestation technology, pay attention to the key points in seedling technology, and comprehensively improve the quality of forestry afforestation itself. It is also necessary to select a more appropriate nursery environment, strengthen water supply management, and comprehensively improve the actual effect of nursery work.

References

- [1] Xing Huijun Analysis on key points of forestry seedling technology and development of afforestation technology [J] Seed World, 2020 (010).
- [2] Jiang Fang Key points of forestry seedling raising technology and key points of afforestation technology [J] Papermaking equipment and materials, 2021 (010): 050.
- [3] Jiang Fang Key points of forestry seedling raising technology and key points of afforestation technology [J] Hunan Paper, 2021 (010): 050.
- [4] Du Aifang Analysis on key points of forestry seedling cultivation and transplantation afforestation technology in the new era [J] Papermaking equipment and materials, 2021 (010): 050.
- [5] Luo Rongcai, Ren Key points of forestry seedling technology and key points of afforestation management measures [J] Seed World, 2022 (002).
- [6] Xu Yanwei Analysis on key points of afforestation and greening technology in barren mountains [J] Hebei Agricultural Machinery, 2022 (3): 3.
- [7] Wang Yueping Research on key points of transplanting and cultivating technology of forestry greening trees [J] Rural Science Experiment, 2021 (23): 2.
- [8] Zhang Guoqiang Analysis and discussion on the method of forestation [J] New farmer, 2021, 000 (004): P.95-9