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Commentary

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Forest Management: Preserving Biodiversity in Response to Climate Change

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Description

Effective environmental, social, and economic goals are what forest management is all about. It could be the improvement of the production of wood goods and services, the preservation of the ecosystem's health, or the safety of the forest and its inhabitants. Because woodlands typically span a huge area and their management entails difficult administrative, financial, legal, and scientific considerations, national authorities have traditionally had responsibility over this process.

Maintaining the health of our planet is another factor in the significance of forest management. The environment is harmed by unchecked pollution and deforestation. However, due to the unique socioeconomic circumstances in many countries, a global system of unity is not advised. It gives local governments and private businesses more responsibility for providing for the needs of the public while upholding a healthy environment. This method improves the wellbeing of the forest and its species as well as serving commercial and economic objectives like the manufacturing of paper or the planning of tourist itineraries. The following techniques can be used to harvest timber each approach has benefits and drawbacks and is appropriate for particular forest management circumstances. Landowners should independently choose the best choice for their objectives with the assistance of specialists. In the wild, trees contend for limited resources. Trees that grow quickly typically live, whereas those that grow slowly typically perish. Furthermore, because of the rivalry among the trees, the production of such a woodland may be quite poor. With the help of timber thinning, proper forest management can resolve this issue. By removing a specific number of trees, experts thin out the forest. As a result, the remaining plants

thrive and develop. There are two types of this method of forest management. Commercial timber thinning entails covering the full cost of tree removal, in part or in full. To preserve the wood's marketable qualities during manufacture, it is necessary to properly calculate the process. Pre-commercial thinning is much simpler to put into practice, but it does not cover the landowner's costs and is ideal for felling tiny trees that are not needed for the manufacture of lumber. Controlled and uncontrolled fires have different effects on the management of forests. An ecosystem and the nearby communities can suffer greatly from uncontrolled flames' massive destruction and carbon emissions, which can be avoided by managing and controlling forest fires as part of forest management.

The vast majority of forest fires are human-caused, yet forest management can help prevent them. Uncontrolled forest fires have dramatically increased in frequency and intensity over the past few years. The main causes of this increase are persistently hotter and drier weather brought on by climate change, as well as other human influences like inadequate forest management and land conversion for agriculture. Controlling visitor activity, picking up litter, and maintaining buffer zones between public roadways are all examples of forest management techniques that can prevent fires. Another way to prevent uncontrolled fires is to thin dry conifer stands and remove dead wood; however, doing so may harm some insects and fungi. The woodlands are a renewable resource, but they still need to be managed properly. If not, landowners may incur large financial losses and seriously harm the ecosystem. At the same time, global sustainability depends on the development of sustainable forest management. The ecology and the entire human race are threatened by climate change. Mismanagement of natural resources, in particular, lowers our capacity to produce food in the future and increases the risk of a global famine. Landowners, managers of woodlands, logging firms, and the food business all move to sustainable production techniques, which include sustainable forest management. This transformation is facilitated by satellite technologies, which also provide useful instruments for achieving this objective.

Ecological forest management: also known as forest management for conservation, attempts to preserve and safeguard the forest for the foreseeable future. The management of the forest ensures that no species goes extinct and that the gene pool and species balance are preserved. Activities center on preserving and restoring biodiversity to ensure the survival of all the previous trees, plants, and animals. Certain species could experience unexpected increases in population or extinction due to climate change. Although forest management practices can attempt to lessen these consequences and adapt to the changing climate, this remains difficult given how unpredictable climate change.

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