

# Forest Conservation and Environmental Awareness: A Review

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Received 7<sup>th</sup> September 2018 | Revised 10<sup>th</sup> October 2018 | Accepted 13<sup>th</sup> December 2018

## Abstract:

*For maintaining sustainability of future generation and benefits, the practice of planting and maintaining forested areas is done which is called forest conservation. The aim of conservation of forest is a transfer in the configuration of trees species and age distribution. Forestry provides a varied series of resources as they stock carbon and act as carbon sink, they collectively produce oxygen which is crucial for survival of life on earth due to which is known as earth lung, helps in controlling hydrological cycle, lessen global warming, absorbs poisonous gases and reduces noise and the level of pollution, preserve soil and diminish natural hazards such as flood, landslide etc. therefore it is considered as vital for the human lives. In this review, countless approaches for the conservation of forest and cognizance to people is discussed through which proper balance of the environment can be maintained.*

**Keywords:** Forest Conservation, Bio Diversity, Awareness, Sustainable Wilderness, Natural Resources

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## Introduction

Any expanded area abundant with an extraordinary density of trees and referred to as wood is called forest. Forests are classified according to their composition and varies significantly in size. Forest covers 9.4 percent of the total earth surface or approximately 50 percent of total land area. They provide shelter for the organisms and act as hydrologic flow modulators and soil conservers which is the most important aspects of the biosphere therefore the conservation of the forest is much needed. For maintaining sustainability of future generation and benefits, the practice of planting and maintaining forested areas is done which is called forest conservation. The aim of conservation of forest is a rapid transfer in the configuration of trees species and age distribution. Because of this diverse range of natural resources and myriad benefits, forests become central to all human and animal life.

**Table: Forest covers the world from 1990-2010**

Region	Total forest cover (in MHa)		
	1990	2000	2010
Africa	749	709	674
Asia	576	570	593
Europe	989	998	1005
North and Central America	708	705	705
Oceania	199	198	191
South America	946	904	864
World	4168	4085	4033

## Importance of forests

A number of benefits can be obtained by the forests which are as follows:

- Forest releases the water vapor into the air hence decreases the air temperature.
- Trees clean the air as it generates oxygen at day time and store carbon dioxide.
- Wild life are attracted by the forests because they get food and shelter from forests.

- Forests show the direction to the winds and speed, offer privacy, reduce light reflection and offer sound barriers.
- Artistic functions including creation of a background, framing a view, complementing architecture etc. is done by the trees.
- Higher quality of water with less impurity can be obtained from the well managed forests other than obtained from other resources.
- Forest helps in controlling the level of floods but it is not true for all forest because some forest raise total water stream.
- Making of furniture, paper/pencil etc. is done from the different kinds of wood obtained from the forest.
- Forest helps in keeping environment healthy and beautiful and also minimize noise pollution.
- Forests stockpile carbon, aid in regulating the terrestrial weather, filter the water and lessen natural disasters like floods and landslides.
- Forest contains approximately 90 percent of the world's earthly biodiversity.

## Destruction of forests

Deforestation is the process of removal or destroying the large areas of forest which occurs due to many factors, like agriculture, logging, mining, urbanization and natural disasters. It is especially a perilous matter in the Amazon rainforests of Brazil although it occurs worldwide. There are many tropical forest species of plants and animals which are vanishing at a distressing rate, for instance there are more than 360 square miles of Amazon destruction in just one month is measured by the experts in December 2007. Effects of deforestation remain for long time and is distressing. There are lots of species of insects and animals which get disappeared or extinct due to the loss of their shelter and food as well as it may also cause disastrous flooding. Climate change and global warming is also caused due to the effect of deforestation which is noticed by the scientist is also observed that the exports of tropical hardwood has been decreased since 1980 due to the threatened condition of extinction of 3400 plant species of tropical forests. Philippines was once the chief exporter of the hardwoods during the early 1980s which has now seen a

simulated termination of log exports while Malaysia has seen 60 percent of decrease in log exportation. The reason behind both the cases are diminishing harvestable forest resources.

### Steps that should be taken for conservation of forests

Forest departments and other departments must be maintained a perfect coordination between them with respect to the forest conservation because it is the national problem. We also must involve in this national task because it is of vital importance to participate in this task. Many ideas can be put forward to conserve the forests which are:

1. Tree cuttings must be prevented and completely stopped at all costs.
2. Special programmes like Van-Mahotsava and Afforestation should be launched on a large scale.
3. Tree plantation must be involved in the preceding of any festival celebrations.
4. Restrictions on timber cutting and other forest products should be done and Grasslands should be regenerated.
5. To prevent deforestation, strict implementation of Forest conservation Act 1980 should be done.

### Methods to conserve forests

- A. Chipko Movement was held in 1973 by Sunderlal Bahuguna and other peoples to save the forest of Tehri Garhwal which is the symbol of people's action in preventing the destruction of environment which became famous worldwide. Chipko means 'to cling' or 'to hug tight'. This movement remains one of the celebrated environmental movements of the world to save the forests.
- B. Local deity protects the conservation of forests through the fear of God and it could be just a few trees or a whole forest. No tree or plant is cut here, neither animal/birds is killed nor is any form of life harmed. In India the sacred groves are a unique traditional institution dedicated to the conservation of forests and biodiversity. Sacred grove contains native vegetation in natural state. For helping the local communities it has water sources, water is absorbed by the

sacred grove during the monsoon and release slowly during dry period.

- C. The Forest conservation Act 1980, was implemented to aid in conserving the country's forests. It is sternly prohibited by this act to de-reserve the forest or to use forest land for urban commitments without the permission of Central Government. Some of the salient features of this act are:
  - Restriction on the utility of forests for non forest purpose
  - Restriction of the destruction of reserve forests
  - Guideline regarding the diversion of the forest lands by individuals and industries.
  - Control of clear felling of trees.
  - Constitution of an advisory committee to allow an agreement for the conduction of any activity for which an approval of Central Government is required.

### Review of Literature

**Singh and Kushwaha, (2008)** worked on forest biodiversity and its protection in India and observed that there is a requirement of setting up a synchronized programme for methodical measurement biodiversity dimension and observing and developed conservation programmes on the landscape level is also needed for preventing suffering protected areas from the island syndrome. Education should be provided so that public may derive an intangible as well as economic profits from conservation determinations to recover their livelihoods.

**Aravindakshan, (2011)** makes an attempt to comprehend the progression of forest management dogmas in India and through a case study on Kerala in India studied the appearance of Village Forest Council as rural institutions in forestry and suggested the requirement of the constant determination and struggles of forest department, other government agencies and local contributors to additionally foster these unexperienced institutions and overwhelmed the inadequacy arising.

**Parikh, (2013)** worked on maintenance in India and the part of Indian Supreme Court: A critical analysis. His paper pacts with the concern of forest

conservation in India with distinct part of the Supreme Court of India and suggested the need of conservation and utilizing these resources in a justifiable manner since they are very rudimentary constituents of human development.

**Adekola *et al.*, (2015)** established the relevancy of community education with protection of forest and their resources based on the environment to guarantee the permanency of the advantages and amenities delivered by these forests. It also examines the role of the community education which plays crucial role in preserving and conserving forest and forest resources in Nigeria. They concludes that the community education is necessary for the protection and preservation of the forest whether they involve to the degradation of the forest ecosystem or not.

**Babu and Nautiyal, (2015)** discussed subjects linked to natural resource subsists, management and erosion right from the primeval to modern epoch. During the initial period, the basic sources of survival for living organisms were the natural resources, such as forests and forest products which gets decreased later due to the human activities. The key outcomes of the study plug to major gaps present, such as between line departments and institutions in the elevation and supervision of human welfare, forests, animal husbandry, agriculture etc. Their study strongly suggested that attention should be given towards emerging people friendly as well as environment friendly conservation schemes.

**Pandey, Jain and Gupta, (2015)** reviewed on the various working models and modern and tradition

forest conservation practices relevant with the sustainable wilderness. For enhancing the green shades on the globe, model is designed to protect the wilderness of given region but retrieving and identifying these structures are the tough task. He concluded that there is need and probability to reshape and improve the methodology and new models suitable for the sustainable ecosystem although, the global forest managers covered a right way in forest conservation program.

**Barrios *et al.*, (2017)** worked on the influence of trees to the conservation of biodiversity as well as ecosystem services in agricultural landscaped and said that it is biggest challenge to humanity to produce adequate food for the cumulative worldwide population along with sustaining natural capital. Soil macroporosity needed for shade trees like coffee agriculture is absent because of decrease 76% loss of native earthworm populations in the soil.

## Conclusion

This review identified that individuals as well as governments should be done their part in protecting the forests of the world. There is need of the knowledge of importance of forest among the people so that the people get aware about the danger on the earth due to deforestation. The community education is necessary for the protection and preservation of the forest whether they involve to the dilapidation of the forest ecosystem or not. It is vital the involvement and participation of the people in the conservation of the forest therefore we also must be involved in this national task.



### References:

Adekola, *et al.* "Conserving and Preserving Forest and Forest Resources in Nigerian Rural Communities: Implications for Community Education." *International Journal of Research in Agriculture and Forestry*, vol. 2, no. 5, May 2015, pp. 42–52.

Aravindakshan, Sreejith. "Evolution of Forest Policies in India and the Emergence of Village Forest Councils as Rural Institutions: A Case Study on Kerala in India." *International Journal of Humanities and Social Science*, vol. 1, no. 6, June 2011, pp. 56–62.

Babu, M. S. Umesh, and Sunil Nautiyal. "Conservation and Management of Forest Resources in India: Ancient and Current Perspectives." *Natural Resources*, vol. 06, no. 04, 2015, pp. 256–272.

Barrios, Edmundo, *et al.* "Contribution of Trees to the Conservation of Biodiversity and Ecosystem Services in Agricultural Landscapes." *International Journal of Biodiversity Science, Ecosystem Services & Management*, vol. 14, no. 1, 2017, pp. 1–16.

Pandey, Sandeep, *et al.* "Review Paper on Forest Conservation Model and Modern Techniques for Sustainable Wilderness." *International Journal of Research*, vol. 2, no. 9, Sept. 2015, pp. 233–238.

Parikh, Madhuri. "The Forest Conservation in India and the Role of Indian Supreme Court: A Critical Analysis." *IOSR Journal of Humanities and Social Science*, vol. 13, no. 4, 2013, pp. 55–61.

Pawar, K.v., and Ravi V. Rothkar. "Forest Conservation & Environmental Awareness." *Procedia Earth and Planetary Science*, vol. 11, 2015, pp. 212–215.

Singh, J.s, and S.p.s Kushwaha. "Forest Biodiversity and Its Conservation in India." *International Forestry Review*, vol. 10, no. 2, Jan. 2008, pp. 292–304.