

- Schwermetallionen,
- pH-Zustand des Mediums,
- Steifigkeit bestimmt.

Viele dieser Indikatoren können nur in besonderen Laboratorien bestimmt werden, aber einige können auch zu Hause identifiziert sein. Das Trinken von minderwertigem Wasser ist streng verboten, da es Probleme mit Verdauungsorganen, Herz-Kreislauf- und Nervensystem, Haut- und Haarzustand mit sich bringt.

Jeder von uns muss die Wasserreserven unseres Landes schützen und Ihre Verschmutzung verhindern. Dies wird der erste Schritt zur Sauberkeit unserer Gewässer sein.

Unsere Gesundheit ist in unseren Händen.

УДК 630\*181/.23

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### **TREES AND CLIMATE CHANGE: WHY REFORESTATION IS VITAL**

Forests are vital to our Earth. Trees purify our air, filter our water, prevent erosion, and act as a buffer against climate change. They offer a home to plant and animal species while also providing natural resources such as medicine, food, timber, and fuel.

*Causes of deforestation:*

1. Agricultural Activities
2. Logging
3. Urbanization
4. Desertification of land
5. Mining: Oil and coal mining require considerable amount of forest land. The waste that comes out from mining pollutes the environment and affects the nearby species.

6. Forest Fires: Hundreds of trees are lost each year due to forest fires in various portions of the world. This happens due to extreme warm summers and milder winters. Fires, whether caused by man or nature results in huge loss of forest cover.

*Effects of deforestation:*

1. Climate Imbalance: Deforestation also affects the climate in more than one way. Trees release water vapor in the air, which is compromised on with the lack of trees. Trees also provide the required shade that keeps

the soil moist. This leads to the imbalance in the atmospheric temperature further making conditions for the ecology difficult. Flora and fauna across the world are accustomed to their habitat. This haphazard clearance of forests have forced several of these animals to shift from their native environment. Due to this several species are finding it difficult to survive or adapt to new habitats.

2. Increase in Global Warming: Trees play a major role in controlling global warming. The trees utilize the greenhouse gases, restoring the balance in the atmosphere.

“Human activities are estimated to have caused approximately 1.0°C of global warming above pre-industrial levels, with a likely range of 0.8°C to 1.2°C. Global warming is likely to reach 1.5°C between 2030 and 2052 if it continues to increase at the current rate. (high confidence).”

“Reaching and sustaining net-zero global anthropogenic CO<sub>2</sub> emissions and declining net nonCO<sub>2</sub> radiative forcing would halt anthropogenic global warming on multi-decadal timescales (high confidence).”

Interestingly, the actions required to reduce global warming would also help to reduce global poverty, since a healthier environment would increase nutritious agricultural yields... and it would improve global health. Those side benefits are in addition to the priceless conservation and expansion of plant and wildlife biodiversity.

3. Soil Erosion: Also due to the shade of trees the soil remains moist. With the clearance of tree cover, the soil is directly exposed to the sun, making it dry.

4. Floods: When it rains, trees absorb and store large amount of water with the help of their roots. When they are cut down, the flow of water is disrupted and leads to floods in some areas and droughts in other.

5. Wildlife Extinction: Due to massive felling down of trees, various species of animals are lost. They lose their habitat and forced to move to new location. Some of them are even pushed to extinction.

#### *What Is the Solution?*

It's tough to simply stop cutting down trees, as they're a major way of human life. However, scientists are encouraging a few solutions to deforestation right now:

1. Eliminate clear-cutting
2. Plant new trees in areas where old ones are cut down
3. Create protected areas
4. Promote sustainable bioenergy

In conclusion, "The best time to plant a tree was 20 years ago. The second best time is now."