<!DOCTYPE html>

<html lang="en">

<head>

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    <title>Forest Resources</title>

    <link rel="stylesheet" href="Index.css">

    <link rel="preconnect" href="https://fonts.googleapis.com">

    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/@fortawesome/fontawesome-free@6.2.1/css/fontawesome.min.css">

<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

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</head>

<body>

    <section class="header">

        <nav>

            <a href="che110project.html"><img src="https://www.lpu.in/images/logo/logo.svg" </a>

            <div class="nav-link" id="navLinks">

                <i class="fa fa-times" oneclick="hideMenu()"></i>

                <ul>

                    <li><a href="https://www.lpu.in/">HOME</a></li>

                    <li><a href="">ABOUT</a></li>

                    <li><a href="">CONTACT</a></li>

                </ul>

            </div>

            <i class="fa fa-bars" oneclick="showMenu()"></i>

        </nav>

    <div class="text-box">

        <h1>Forest Resources</h1>

        <p>In the heart of the forest lies a wealth of resources, not just in timber and flora, but in the untapped wisdom of nature. Let us be stewards, not exploiters, <br>and harvest the treasures of the forest with reverence and sustainability, ensuring a legacy of abundance for generations to come.</p>

        <a href="https://www.encyclopedia.com/environment/energy-government-and-defense-magazines/forest-resources" class="hero-btn">Visit Us to Know More</a>

    </div>

    </section>

    <!--Forest-->

    <section class="Forest">

        <div class="introduction">

        <b><h1>Forest Resources</h1></b><img src="https://w0.peakpx.com/wallpaper/798/766/HD-wallpaper-rainforest-ultra-nature-forests-trees-asia-forest-indonesia-conservation-pathway-canopy-national-parks-jawa-jawa-barat-kabupaten-sukabumi-sukabumi-west-java-forest-management-natural.jpg">

        </div>

        <h1>Content</h1>

        <p><br>>> Introduction

            <br>>> Factors Affecting the Forest Resources

            <br>>> Solutions Regarding this issue

            <br>>> Actions we can take at our level to conserve Forests

            <br>>> Data showing the decling and the destruction of Forest Resources

            <br>>> How Sustainable Development can help in conservation of Forest Resources

        <hr>

        <h2>INTRODUCTION</h2>

        <p>Forests, often refered as the lungs of our planet, are not merely, vast expanses of trees but inticate ecosystem teeming wiith invaluable resources. These forest resources has a widerray of natural assets, each playing a pivotal role in the well-being of both natural and humanity. These resources include timber, non-timber forests products (eg. fruits, nuts, medicinal/medicinal plants), wildlife, habitat, clean water, carbon storage and recreational opportunities.</p>

            <p><img src="https://wwfint.awsassets.panda.org/img/original/forests\_and\_climate\_graphic.png">

                <hr>

                Forest plays a vital role in providing these resources, and their sustainable management is crucial for maintaining ecological balance and meeting human needs.

                "Sustainable forestry practices aim to balance resources extraction with conservation to ensure the long-term health and productivity of forests."

            <h2>FACTORS AFFECTING FORESTS RESOURCES</h2>

            <b><p>Here are some key factors that can affect forests resources:-</b>

                <div class="row">

                <div class="factors">

                    <h3><b>DEFORESTATION</b></h3>

                        <p>The most significant causes of forets resources depletion is deforestation.</p>

                </div>

                <p>

                <div class="factors">

                    <h3><b>CLIMATE CHANGE</b></h3>

                        <p>Changing climate patterns, including increased temperatures and alternate precipitation patterns, can stress forests.</p>

                </div>

                </p>

                <p>

                <div class="factors">

                    <h3><b>NATURAL DISTURBANCES</b></h3>

                        <p>Natural events like wildfires, storms and insect infestations can causes significant damage to forests, affecting their health and the availability of resources.</p>

                </div>

                </p>

                <p>

                <div class="factors">

                        <p><h3><b>GROWING POLLUTION</b></h3>

                            <p>Pollution from industrial and agricultural sources can contaminate water sources in forests, affecting the health of aquatic ecosystems and availability of clea water resources.</p>

                </div>

                </p>

                <p>

                <div class="factors">

                    <h3><b>HUMAN ACTIVITIES</b></h3>

                        <p>Activities like unregulated hunting, gathering of non-timber forests products, pressure on forest resources.</p>

                </div>

                </p>

                <p>

                <div class="factors">

                    <h3><b>INVASIVE SPECIES</b></h3>

                        <p>The introduction of invasive plant species or pests can disrupt native ecosystems and negatively impact forest resources.</p>

                </div>

                </p>

                <p>

                <div class="factors">

                    <b><h3>POLICY AND GOVERNMENT</h3></b>

                        <p>Weak forest governance, inadequate regulations and ineffective enforcement of environment laws can contribute to resourcesdegradation and deforestation.</p>

                </div>

                </p>

                </div>

            <p><iframe width="390" height="215" src="https://www.youtube.com/embed/sNLG12RQjpA?si=tkEPrzvAG9TEHN-K" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe></p>

    </section>

<!------Deforestation------->

<section class="deforestation">

    <h3><b><u>DEFORESTATION</u></b></h3>

    <p>With the world growing at a pace hard to match, the incresing need for space is turning out to be an area of concern. with a desparate need for land for agricultural, industrial and most importantly, urban requirements to contain cities and their <a href="https://www.prb.org/resources/population-growth-and-deforestation-a-critical-and-complex-relationship/">growing population</a>, a direct action tha we have come to recognize as "Deforestation" occurs.

        <p>Deforestation, in simple terms, means the felling and clearing of forest cover or tree plantations to accommodate agricultural, industrial or urban use. It involves the permanent end of forest cover to make that land available for residential, commercial or industrial purposes.

            <br><img src="https://images.newindianexpress.com/uploads/user/imagelibrary/2021/11/8/w1200X800/stop-deforestation.jpg">

            <br><a href="https://en.m.wikipedia.org/wiki/Deforestation">According to Wikipedia</a>:

            <br>“Deforestation, clearance, clearcutting or clearing is the removal of a forest or stand of trees from land which is then converted to a non-forest use. Deforestation can involve conversion of forest land to farms, ranches, or urban use. The most concentrated deforestation occurs in <a href="https://earthobservatory.nasa.gov/features/Deforestation/tropical\_deforestation\_2001.pdf">tropical rainforests</a>.”

            <p>Over the last century, the forest cover around the globe has been significantly compromised, leaving the green cover down to an all-time low of about 30 percent. According to the United Nations Food and Agriculture Organization (FAO), an estimated 18 million acres (7.3 million hectares) of forest are lost each year.

            <br>Deforestation can also be seen as removal of forests leading to several imbalances, both ecologically and environmentally. What makes deforestation alarming is the immediate and long term effects it is bound to inflict if continued at the current pace. Some predictions state that the <a href="https://education.nationalgeographic.org/resource/rain-forest/">rainforests</a> of the world will be eradicated if deforestation continues at its current pace.

            <hr>

            <br><div class="point">

                <u><b>Primary Causes of Deforestation</b></u>

                </div>

                    <br>1. <b>Agricultural Activities</b>

                    <br>As earlier mentioned in the overview, agricultural activities are one of the significant factors affecting deforestation. According to the <a href="https://www.fao.org/home/en/">FAO</a>, agriculture leads to around 80% of deforestation.

                    <br><a href="https://www.google.com/search?q=agricultural+activities+cause+deforestation&sca\_esv=580562456&rlz=1C1VDKB\_enIN1075IN1075&tbm=isch&sxsrf=AM9HkKlNjnovs00DwQMqi05OqUWbhoDDFw:1699471448537&source=lnms&sa=X&ved=2ahUKEwjsyPu\_kLWCAxWnSmwGHcMkDPoQ\_AUoAXoECAEQAw&cshid=1699471562341603&biw=1536&bih=707&dpr=1.25"><img src="https://theecologist.org/sites/default/files/styles/inline\_l/public/2019-09/soybeans-1543071\_1280.jpg?itok=JaWP7LQh"></a>

                    <br>Due to the overgrowing demand for food products, a huge amount of trees are felled to grow crops, and 33% of agriculture-caused deforestation is because of subsistence agriculture.<a href="https://sentientmedia.org/how-does-agriculture-cause-deforestation/#:~:text=How%20Does%20Animal%20Agriculture%20Cause,of%20forests%20for%20animal%20grazing.">Click here for more details</a>

                    <p>2. <b>Livestock Ranching</b>

                        <br>Livestock is believed to be responsible for about 14% of global deforestation. Farmers often clear the land by cutting down trees and burning them to raise livestock and grow food. They continue to use the property until the soil is completely degraded and repeat the same process on new woodland.

                        <br><a href="https://www.google.com/search?q=livestock+ranching&sca\_esv=580562456&rlz=1C1VDKB\_enIN1075IN1075&tbm=isch&sxsrf=AM9HkKk4mFMq02Qnnd6nYg\_XtoJ76BRmyQ:1699472280366&source=lnms&sa=X&ved=2ahUKEwibqc7Mk7WCAxVcd2wGHeQ\_CKAQ\_AUoAXoECAIQAw&biw=1536&bih=707&dpr=1.25"><img src="https://arc-anglerfish-washpost-prod-washpost.s3.amazonaws.com/public/ZAET6OGH4UI6TFQVR4NDFFROAQ.jpg"></a>

                        <br>Eventually, it’ll reforest, but it will take many years to return to its original condition. Surprisingly, over the past 40 years, the forest area has reduced by almost 40 percent, and during the same period, pasture regions and cattle populations have grown significantly and rapidly.<a href="https://education.nationalgeographic.org/resource/ranching/">Click here for more details</a>

                        <p>3. <b>Illegal Logging</b>

                            <br>Apart from this, wood-based industries like paper, match-sticks, furniture, etc. also need a substantial amount of wood supply. Wood is used as fuel, both directly and indirectly.

                            <br><a href="https://www.google.com/search?q=how+illegal+logging+affects+the+forest+resources&sca\_esv=580988201&rlz=1C1VDKB\_enIN1075IN1075&tbm=isch&sxsrf=AM9HkKmcCi98zfree187OdrN0EuM\_x-CwA:1699567231964&source=lnms&sa=X&ved=2ahUKEwjmgIip9beCAxVhSGwGHdX6CQkQ\_AUoAXoECAEQAw&biw=1536&bih=707&dpr=1.25"><img src="https://www.amlrightsource.com/hubfs/Illegal%20logging%20and%20deforestation-%20money%20does%20grow%20on%20trees.jpeg"></a>

                            <br>Therefore trees are chopped for meeting the demand for supplies. Firewood and charcoal are examples of wood being used as fuel. Some of these industries thrive on illegal wood cutting and felling of trees.<a href="https://en.wikipedia.org/wiki/Illegal\_logging">Click here for more details</a>

                            <p>4. <b>Urbanization</b>

                            <br>Further, to gain access to these forests, the construction of roads is undertaken; here again, trees are chopped to build roads.

                            <a href="https://www.google.com/search?q=how+urbanizATION+IS+affecting+the+forest+resources&sca\_esv=580988201&rlz=1C1VDKB\_enIN1075IN1075&tbm=isch&sxsrf=AM9HkKmfIFoJrSBIMkKKxa93wZGQaT5e8Q:1699566517386&source=lnms&sa=X&ved=2ahUKEwjQ0KnU8reCAxXDTWwGHTNJCwgQ\_AUoAXoECAMQAw&biw=1536&bih=707&dpr=1.25"><br><img src="https://slideplayer.com/9347949/28/images/slide\_1.jpg"></a>

                            <br>Overpopulation too directly affects forest covers, as with the expansion of cities, more land is needed to establish housing and settlements. Therefore forest land is reclaimed.<a href="https://www.linkedin.com/pulse/urbanization-major-cause-pollution-pratanu-banerjee/">Click here for details</a>

                            <p>5. <b>Desertification of Land</b>

                            <br>Some of the other factors that lead to deforestation are also partly natural and partly anthropogenic, like desertification of land.

                            <a href="https://www.google.com/search?q=how+desertification+of+land+affects+the+forest+resources&tbm=isch&ved=2ahUKEwjhyNX-8reCAxW7QmwGHWDqCV8Q2-cCegQIABAA&oq=how+desertification+of+land+affects+the+forest+resources&gs\_lcp=CgNpbWcQA1AAWABg2gloAHAAeACAAZoBiAGaAZIBAzAuMZgBAKoBC2d3cy13aXotaW1nwAEB&sclient=img&ei=DlRNZeGJC7uFseMP4NSn-AU&bih=707&biw=1536&rlz=1C1VDKB\_enIN1075IN1075"><br><img src="https://as2.ftcdn.net/v2/jpg/04/13/92/49/1000\_F\_413924953\_hPk9NWc74PnthJKtVkGtpkZR7z5G2C8a.jpg"></a>

                            <br>It occurs due to land abuse, making it unfit for the growth of trees. Many industries in petrochemicals release their waste into rivers, which results in soil erosion and make it unfit to grow plants and trees.<a href="https://www.iberdrola.com/sustainability/desertification#:~:text=Consequences%20of%20desertification&text=The%20loss%20of%20vegetation%20cover,to%20the%20loss%20of%20aquifers.">Click here for more details...</a>

                            <p>6. <b>Mining</b>

                            <br>Oil and coal mining requires a considerable amount of forest land. Apart from this, roads and highways have to be built to make way for trucks and other equipment.

                            <a href="https://www.google.com/search?q=how+mining+of+land+affects+the+forest+resources&tbm=isch&ved=2ahUKEwiYg7SD87eCAxW0pekKHWJPCOsQ2-cCegQIABAA&oq=how+mining+of+land+affects+the+forest+resources&gs\_lcp=CgNpbWcQAzoECCMQJ1DXNFi8VGCPWmgAcAB4AIABjAKIAa4UkgEGMC4xNy4xmAEAoAEBqgELZ3dzLXdpei1pbWfAAQE&sclient=img&ei=GFRNZZiXB7TLpgfinqHYDg&bih=707&biw=1536&rlz=1C1VDKB\_enIN1075IN1075"><br><img src="https://www.shutterstock.com/image-vector/ecology-pollution-deforestation-forest-fire-260nw-1874607205.jpg"></a>

                            <br>The waste that comes out from mining pollutes the environment and affects the nearby species.<a href="https://www.chathamhouse.org/2020/10/minings-impacts-forests/2-minings-impacts-forests">Click here for more details...</a>

                            <p>7. <b>Forest Fires</b>

                            <br>Another valid example would be forest blazes; hundreds of trees are lost each year due to forest fires in various portions of the world.

                            <a href="https://www.google.com/search?q=how+forest+fires+of+land+affects+the+forest+resources&tbm=isch&ved=2ahUKEwiHuZyW87eCAxVxamwGHQ34DckQ2-cCegQIABAA&oq=how+forest+fires+of+land+affects+the+forest+resources&gs\_lcp=CgNpbWcQA1DqBFjvKWD9K2gAcAB4AIAB\_gGIAdoVkgEGMC4xOC4xmAEAoAEBqgELZ3dzLXdpei1pbWfAAQE&sclient=img&ei=P1RNZcedI\_HUseMPjfC3yAw&bih=707&biw=1536&rlz=1C1VDKB\_enIN1075IN1075"><br><img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcQfnITQN3D9iXAxwUR0J4DCFdyK8mFZLMvBmA&usqp=CAU"></a>

                            <br>It happens due to extreme warm summers and milder winters. Fires, whether caused by man or nature, results in a massive loss of forest cover.<a href="https://agritech.tnau.ac.in/agriculture/agri\_majorareas\_disastermgt\_forestfire.html#:~:text=EFFECT%20OF%20FOREST%20FIRE&text=loss%20of%20valuable%20timber%20resources,habitat%20and%20depletion%20of%20wildlife">Click here for details...</a>

                            <p>8. <b>Paper</b>

                             <br>According to the Environment Paper Network, the paper that’s thrown away each year accounts for approximately 640 million trees. America, China, Canada, Japan, constitute more than that of the world’s paper production, and that is 400 million tons a year.

                            <a href="https://www.google.com/search?q=how+paper+affects+the+forest+resources&tbm=isch&ved=2ahUKEwi7gtqo87eCAxXP6DgGHV8yCsMQ2-cCegQIABAA&oq=how+paper+affects+the+forest+resources&gs\_lcp=CgNpbWcQAzoECCMQJ1CNPljzXmC2YGgEcAB4BIABoAGIAcgYkgEEMC4yM5gBAKABAaoBC2d3cy13aXotaW1nwAEB&sclient=img&ei=ZlRNZbu3FM\_R4-EP3-SomAw&bih=707&biw=1536&rlz=1C1VDKB\_enIN1075IN1075"><br><img src="https://naturalenergyhub.com/wp-content/uploads/2018/08/paper-recycling-and-solution-for-deforestation-1024x331.png"></a>

                            <br><br>If we recycled, that could save 27.5 million tons of carbon dioxide from going into the atmosphere. We allow the forests to continue to remain as a favorable ecosystem and wildlife habitat if we use recycled paper.<a href="https://cartlyapp.com/en/the-impacts-of-paper-on-the-environment/#:~:text=Paper%20Production%20Causes%20Air%20Pollution&text=Nitrogen%20dioxide%20(NO)%2C%20sulfur,affects%20the%20production%20of%20crops.">Click here for details...</a>

                            <p>9. <b>Overpopulation</b>

                            <br>The overpopulation requires more land to establish housing and settlements. It generates a significant need for food and farmland to grow food and raise livestock.

                            <a href="https://www.google.com/search?q=how+overpopulation+affects+the+forest+resources&tbm=isch&ved=2ahUKEwiM5Oq887eCAxUGSGwGHWW8BbAQ2-cCegQIABAA&oq=how+overpopulation+affects+the+forest+resources&gs\_lcp=CgNpbWcQA1ChCVi6PmD1QGgBcAB4AIABqQKIAf8dkgEGMC4xNC43mAEAoAEBqgELZ3dzLXdpei1pbWfAAQE&sclient=img&ei=kFRNZYzcIYaQseMP5fiWgAs&bih=707&biw=1536&rlz=1C1VDKB\_enIN1075IN1075"><br><img src="https://ischoolconnect.com/blog/wp-content/uploads/2022/08/Artboard-2.png"></a>

                            <br>It automatically requires many more roads and highways for transport and communication—all these results in deforestation. Logging industries cut down trees for furniture, paper, building materials, and many more products.

                            <p>Moreover, the growing human population is directly linked to deforestation. Therefore, it becomes almost essential to purchase from sustainable companies that actively work against deforestation.<a href="https://www.vedantu.com/question-answer/does-population-growth-affect-the-rate-of-defo-class-11-biology-cbse-5ff48089f291a76c57de8c7d">Click here for details...</a>

                                <div class="point"><hr><b><p><u>Effects of Deforestation</u></b></div>

                                    <p>1. <b>Climate Imbalance and Climate Change</b>

                                        <br>Deforestation also affects the climate in many ways. Forests are the lungs of our planet. Trees take in carbon dioxide and release oxygen and water vapor in the air, and that is why tropical rainforests are extremely humid.

                                        <br>Trees also provide shade that keeps the soil moist. All these are compromised with the lack of trees. It leads to the imbalance in the atmospheric temperature, drier climate, further making conditions for the ecology difficult that leads to climate change.

                                    <p>2. <b>Increase in Global Warming</b>

                                        <br>Trees play a major role in controlling global warming. The trees utilize greenhouse gases, restoring the balance in the atmosphere. With constant deforestation, the ratio of greenhouse gases in the atmosphere has increased, adding to our global warming woes.

                                    <p>3. <b>Increase in Greenhouse Gas Emissions</b>

                                        <br>Forests help to mitigate carbon dioxide and other toxic greenhouse gas emissions. However, once they’re cut, burned, or otherwise removed, they become carbon sources.

                                        <br>It’s estimated that deforestation is responsible for around 20 percent of greenhouse gas emissions, and due to tropical deforestation, 1.5 billion tons of carbon is released every year in the atmosphere.

                                   <p>4. <b>Soil Erosion</b>

                                        <br>Trees are also crucial for our local water cycles as they keep on returning water vapor to the atmosphere. The soil remains moist as the rainwater percolates within the soil.

                                        <br>The fertile soil is held in place by intricate root structures of many layers of trees. With the clearance of tree cover, the land is directly exposed to the sun, making it dry.

                                            Without trees, erosion often occurs and sweeps the land into nearby rivers and streams. Forests serve as nature’s water purification plants. Soil erosion makes soil exposed to contaminants that leach into the water supply, which damages the quality of our drinking water.

                                    <div class="point"><hr><p><b><u>How to Prevent Deforestation?</u></b></div>

                                        <p><img src="https://youmatter.world/app/uploads/sites/2/2019/01/deforestation-stop-prevent-help.jpg">

                                            <p>1. <b>Standing with Indigenous Peoples</b>

                                                <br>Forests around the world have been home to Indigenous Peoples for tens of thousands of years. Evidence shows that when Indigenous Peoples’ rights to traditional lands and self-determination are respected, forests stay standing. But too often, corporations and governments overlook or intentionally trample the rights of Indigenous Peoples.

                                                <br><br>For example, the Waswanipi Cree of Northern Quebec are fighting to keep the last wild forests on their traditional land intact, and the Munduruku people of the Amazon are battling a proposed mega-dam that threatens rainforests, a river, and their way of life.

                                                <p>2. <b>Promoting Sustainable Choices</b>

                                                <br>You can make a difference in the fight to save forests by making informed daily choices. By consuming less, avoiding single-use packaging, eating sustainable food, and choosing recycled or responsibly-produced wood products, we can all be part of the movement to protect forests.

                                                <br>Make choices for forests, nature, and people — and do so vocally!

                                                <p>3. <b>Changing the Politics</b>

                                                <br>If we’re going to stop deforestation, we need governments to do their part. We need world leaders to embrace ambitious domestic and international forest conservation policies based on the latest science, allowing us to live in a world that avoids severe climate disruption.

                                                <br><img src="https://pbs.twimg.com/media/EowktrzUcAErJm3.jpg">

                                                <br>In the United States, laws like the Endangered Species Act, the Wilderness Act, the Lacey Act, and the Roadless Rule help protect our forests and stop illegal wood products from entering the U.S. marketplace. We also support global treaties like the Convention on International Trade in Endangered Species (CITES), Convention on Biological Diversity, and the Framework Convention on Climate Change that have the potential to protect forests and the wildlife that rely on forest habitats.

                                                <br><br><iframe width="360" height="209" src="https://www.youtube.com/embed/WF-GNL3KfrY?si=w2T5oANhOnwzSjWX" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>

</section>

<!----------climate------->

<section class="climate">

    <h3><b><u>CLIMATE</u></b></h3>

    <p>Climate change may affect forests at both local and regional scales. The impacts can vary even within a single forest. Three key impacts are described in this section.

    <p>1. <b>Natural Disturbances</b>

    <br>Climate change will influence a number of natural <a href="https://www.climatehubs.usda.gov/disturbances-and-stressors">disturbances</a> that threaten forest health. These include insect outbreaks, invasive species, wildfires, and storms. Some disturbances, like a wildfire, take place quickly. Others, like changes in animal or plant populations, happen over decades to centuries. Some of their effects may be temporary, allowing a forest to recover. In other cases, a forest may suffer lasting impacts.

    <br><img src="https://www.fao.org/forestry/28057-0fdcd8161be9edc258b859cac8c1112db.jpg">

    <br>Some forests may benefit from certain climate impacts. For instance, warmer temperatures can lead to more tree and plant growth in regions where cold weather limits the growing season. However, in other forests, warmer temperatures may allow invasive species to thrive. Warmer weather can also encourage insect survivial and growth. Over the past decade, climate change has led to an increase in <a href="https://www.fs.usda.gov/ccrc/topics/bark-beetles-and-climate-change-united-states">bark beetle</a> damage to mountain pines in parts of the West.

    <br>Disturbances can also interact with one another to increase risks to forests. For example, drought can weaken trees and make a forest more vulnerable to wildfire or insect outbreaks. Similarly, wildfires can make a forest more vulnerable to pests. Climate impacts can also interact with other stressors, like land development, that decrease a forest’s ability to adapt.

    <p>2. <b>Reduced Carbon Storage</b>

    <br>Climate change is expected to affect forests’ ability to provide key ecosystem services, including carbon storage, clean air, water supply, recreation, and wildlife habitat. One of the most important <a href="https://www.epa.gov/climateimpacts/climate-change-impacts-ecosystems">ecosystem services</a> forests provide is absorbing carbon dioxide from the atmosphere and storing it in roots, soil, aboveground tree growth, and the forest floor.

    <br><img src="https://portal.ct.gov/-/media/DEEP/forestry/Marketing-Template-Photos/Forest-Carbon-Cycle\_USFS.jpg?sc\_lang=en&h=600&w=800&hash=47D55AA0EB702A03E57E88FF08F4567C">

    <br>Climate change can affect carbon storage in several ways. For example, it may bring more frequent and intense rainfall to some regions. Heavy precipitation and flooding can erode forest soils and cause stored carbon to be released back into the atmosphere. Damage to forests from more wildfires, insects, and disease outbreaks can also release stored carbon.

    <div class="climate"><p><div id="predictor-form">

        <h2>Climatic Condition Predictor</h2>

        <form onsubmit="predictClimaticCondition(event)">

          <label for="temperature">Select Temperature:</label>

          <select id="temperature" required>

            <option value="hot">Hot</option>

            <option value="moderate">Moderate</option>

            <option value="cold">Cold</option>

          </select>

          <label for="humidity">Select Humidity:</label>

          <select id="humidity" required>

            <option value="low">Low</option>

            <option value="moderate">Moderate</option>

            <option value="high">High</option>

          </select>

          <button type="submit">Predict</button>

        </form>

        <div id="prediction"></div>

    </div>

    </div>

    <script>

      function predictClimaticCondition(event) {

        event.preventDefault();

        const temperature = document.getElementById('temperature').value;

        const humidity = document.getElementById('humidity').value;

        let prediction = '';

        // Simple prediction logic (for demonstration purposes)

        if (temperature === 'hot' && humidity === 'high') {

          prediction = 'Predicted: Tropical Climate';

        } else if (temperature === 'cold' && humidity === 'low') {

          prediction = 'Predicted: Arctic Climate';

        } else {

          prediction = 'Predicted: Moderate Climate';

        }

        document.getElementById('prediction').textContent = prediction;

      }

    </script>

    <iframe width="460" height="260" src="https://www.youtube.com/embed/Wrb4b28dgcU?si=h-4\_6wiAQ0WgPOJ6" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>

</section>

    <!-------Population--------->

    <section class="population">

        <h3><b><u>POPULATION</u></b></h3>

    <p>1. The growing population has a significant impact on forest resources in several ways. One of the main concerns is deforestation, as increasing population leads to higher demand for land for agriculture, housing, and infrastructure. This often results in the clearing of forests to make way for these developments.

        <p>2. Additionally, the rising population contributes to increased wood consumption for fuel, construction, and other purposes. This can lead to overharvesting of trees, disrupting the balance of ecosystems and depleting forest resources. The need for more land also puts pressure on biodiversity, as it can lead to habitat loss and fragmentation, threatening various plant and animal species.

            <br><br><img src="https://www.mapsofindia.com/ci-moi-images/my-india/2014/07/overpopulation-in-india-causes-effects-and-how-to-control-it.jpg">

        <p>3. Population growth also correlates with an uptick in consumption patterns, which can result in more logging, mining, and other resource-extractive activities that negatively impact forests. Sustainable forest management practices become crucial to balance the growing demand for resources with the need to conserve and protect these valuable ecosystems.

            <br><br><iframe width="360" height="210" src="https://www.youtube.com/embed/mRcxGJcBDVo?si=dTcUj9p-HO1e6-Rh" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>

    </section>

    <!----------Human---------->

    <section class="human">

        <h3><b><u>HUMAN ACTIVITIES</u></b></h3>

    <p>1. Human activities have a significant impact on forest resources, often leading to deforestation and degradation. One major culprit is logging, where trees are cut down for timber, paper, and other wood products. This not only reduces the number of trees but also disrupts ecosystems and habitats.

        <p>2. Agriculture also plays a role, as forests are sometimes cleared to make way for crops or grazing land. The use of slash-and-burn techniques in agriculture can lead to widespread destruction. Additionally, urbanization and infrastructure development can fragment forests, isolating populations of plants and animals and disrupting their natural dynamics.

        <p>3. Human activities also contribute to pollution, which can harm forest ecosystems. Industrial emissions, agricultural runoff, and improper waste disposal all introduce pollutants into the air and water, impacting the health of forests.

        <p>4. It's crucial for us to find sustainable ways to coexist with forests, balancing human needs with the preservation of these vital ecosystems. Conservation efforts, responsible resource management, and sustainable practices can help mitigate the negative impact of human activities on forest resources.

        <br><br><iframe width="460" height="260" src="https://www.youtube.com/embed/8uGEcM1yLXM?si=tPnEZL-0hwKgj9rw" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>

    </section>

    <!-------Invasive-------->

    <section class="invasive">

        <h3><b><u>INVAISVE ACTIVITIES</u></b></h3>

    <p><b>Invasive species can have detrimental effects on forest resources by disrupting the balance of ecosystems and outcompeting native flora and fauna. Here are some ways in which invasive species impact forests:</b>

        <br><br>1. <b>Competition for Resources</b>: Invasive plants often compete aggressively with native vegetation for sunlight, water, and nutrients. This competition can lead to a decline in native plant species, affecting the overall biodiversity and ecosystem health.

        <br>2. <b>Altered Ecosystem Structure</b>: Invasive species can change the composition and structure of forest ecosystems. They may replace native plants, which can, in turn, affect the animals that rely on those plants for food and shelter.

        <br>3. <b>Disruption of Ecological Processes</b>: Invasive species may disrupt natural ecological processes, such as nutrient cycling and seed dispersal. This can have cascading effects on the entire ecosystem, affecting both plant and animal species.

        <br>4. <b>Increased Wildfire Risk</b>: Some invasive plant species are more flammable than native vegetation, increasing the risk of wildfires. This poses a threat to the overall health of the forest and can lead to the loss of valuable timber and other resources.

        <br>5. <b>Disease Transmission</b>: Invasive species can introduce new diseases to native plants and animals that may not have evolved defenses against these pathogens. This can lead to widespread disease outbreaks, further impacting forest health.

        <br>6. <b>Impact on Wildlife</b>: Changes in plant composition can affect the availability of food and habitat for native wildlife. Invasive species may not provide the same resources as native plants, leading to declines in populations of animals that depend on them.

        <br><br>Efforts to control and manage invasive species are crucial for maintaining the health and sustainability of forest ecosystems. This includes early detection, rapid response measures, and the development of strategies to restore and rehabilitate affected areas.

        <br><br><iframe width="360" height="200" src="https://www.youtube.com/embed/INSUc35THPc?si=XQeuuteWnQ7OyCKP" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>

    </section>

    <!--------Policy------->

    <section class="policy">

        <h3><b><u>GOVERNMENT AND POLICY</u></b></h3>

    <p>Government policies play a crucial role in shaping the management and conservation of forest resources. These policies can have both positive and negative impacts, depending on their goals, implementation, and enforcement. Here are a few ways in which policy and government actions affect forest resources:

        <p>1. <b>Forest Conservation Policies</b>: Governments may implement policies aimed at conserving forests by restricting deforestation, promoting sustainable logging practices, and establishing protected areas. These measures help maintain biodiversity, protect ecosystems, and ensure the long-term health of forest resources.

        <br>2. <b>Land Use Planning</b>: Government decisions regarding land use can significantly impact forests. Zoning regulations, urban planning, and agricultural policies can either protect or encroach upon forested areas. Poorly planned development can lead to deforestation and habitat loss.

        <br>3. <b>Logging Regulations</b>: Policies related to logging practices, such as selective logging and clear-cutting restrictions, influence the sustainability of timber extraction. Properly managed logging can allow for economic benefits while minimizing environmental impact.

        <br>4. <b>Forest Ownership and Access Rights</b>: Government policies also determine who owns and has access to forest resources. Clear property rights and community-based forest management schemes can empower local communities to sustainably manage and benefit from forests.

        <br>5. <b>International Agreements</b>: Forest resources are not confined to national borders. International agreements and collaborations can play a role in promoting sustainable forest management globally. Agreements like the Convention on Biological Diversity and the United Nations Framework Convention on Climate Change address forest conservation and sustainable use.

        <br>6. <b>Financial Incentives and Subsidies</b>: Governments may provide financial incentives or subsidies to encourage sustainable forest management practices. This could include support for reforestation efforts, payments for ecosystem services, or tax breaks for sustainable forestry practices.

        <br>7. <b>Enforcement and Monitoring</b>: The effectiveness of policies depends on their enforcement. Governments need to invest in monitoring and enforcement mechanisms to ensure that regulations related to forest management are followed. Weak enforcement can lead to illegal logging and overexploitation of forest resources.

        <br>8. <b>Climate Change Policies</b>: Policies addressing climate change can indirectly impact forest resources. Forests act as carbon sinks, and efforts to mitigate climate change may include incentives for preserving and restoring forests to sequester carbon dioxide.

        <br><br>In summary, government policies play a pivotal role in determining the fate of forest resources. Well-designed and effectively implemented policies can contribute to the sustainable management and conservation of forests, while poorly conceived or poorly enforced policies may lead to degradation and loss of these valuable ecosystems.

        <br><br><iframe width="560" height="315" src="https://www.youtube.com/embed/pOo2jsY5s78?si=R2gyD\_gpmhiWrnWx" title="YouTube video player" frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media; gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>

    </section>

    <!--------------Footer--------------->

    <section class="footer">

        <h4>About US</h4>

        <p>We are a here to serve you a website on awareness based on forst resources. We want to pevent the damage of our

        <br>forest resources by spreading awareness among everyone.</p>

    <!------JavaScript for Toggle Menu------>

<script>

    var navLinks = document.getElementById("navLinks");

    function showMenu(){

        navLinks.style.right = "0";

    }

    function hideMenu(){

        navLinks.style.right = "-200px";

    }

</script>

</body>

</html>

\*{

    margin: 0;

    padding: 0;

    font-family: 'Poppins', sans-serif;

}

.header{

    min-height: 100vh;

    width: 100%;

    background-image: linear-gradient(rgba(4,9,30,0.7),rgba(4,9,30,0.7)),url(https://images.pexels.com/photos/1423600/pexels-photo-1423600.jpeg?cs=srgb&dl=pexels-johannes-plenio-1423600.jpg&fm=jpg);

    background-position: center;

    background-size: cover;

    position: relative;

}

nav{

    display: flex;

    padding: 2% 6%;

    justify-content: space-between;

    align-items: center;

}

nav img{

    width: 150px;

}

.nav-link{

     flex: 1;

     text-align: right;

}

.nav-link ul li{

    list-style: none;

    display: inline-block;

    padding: 8px 12px;

    position: relative;

}

.nav-link ul li a{

    color: #fff;

    text-decoration: none;

    font-size: 13px;

}

.nav-link ul li::after{

    content: '';

    width: 0%;

    height: 2px;

    background: #f44336;

    display: block;

    margin: auto;

    transition: 0.5s;

}

.nav-link ul li:hover::after{

    width: 100%

}

.text-box{

    width: 90%;

    color: #fff;

    position: absolute;

    top: 50%;

    left: 50%;

    transform: translate(-50%,-50%);

    text-align: center;

}

.text-box h1{

    font-size: 62px;

    color: #fff;

}

.text-box p{

    margin: 10px 0 40px;

    font-size: 14px;

    color: #fff;

}

.hero-btn{

    display: inline-block;

    text-decoration: none;

    color: #fff;

    border: 1px solid #fff;

    padding: 12px 34px;

    background: transparent;

    position: relative;

    cursor: pointer;

}

.hero-btn:hover{

    border: 1px solid #f44336;

    background: #f44336;

    transition: 1s;

}

nav .fa{

    display: none;

}

@media(max-width: 700px){

    .text-box h1{

        font-size: 20px;

        color: #fff;

    }

    .nav-link ul li{

        display: block;

    }

    .nav-link{

        position: absolute;

        background: #f44336;

        height: 100vh;

        width: 200px;

        top: 0;

        right: -200px;

        text-align: left;

        z-index: 2;

        transition: 1s;

    }

    nav .fa{

        display: block;

        color: #fff;

        margin: 10px;

        font-size: 22px;

        cursor: pointer;

    }

    .nav-link ul{

        padding: 30px;

    }

}

/\*------Forest------\*/

.Forest {

    width: 80%;

    margin: auto;

    padding-top: 100px;

}

.factors {

    background-color: lightgoldenrodyellow;

}

img {

    margin-right: auto;

    margin-left: auto;

    max-width: 400px;

}

.introduction {

    font-size: 50px;

    color: #4caf50;

}

.row {

    margin-top: 5%;

    display: flex;

    justify-content: space-between ;

}

.factors {

    flex-basis: 31%;

    background: #fff3f3;

    border-radius: 10px;

    margin-bottom: 5%;

    padding: 15px 5px;

    box-sizing: border-box;

}

h3 {

    text-align: center;

    font-weight: 600;

    margin: 10px 0;

}

.factors:hover {

    box-shadow: 0 0 20px 0px rgba(0, 0, 0, 2);

}

p {

    font-size: 14px;

    font-weight: 300;

    line-height: 22px;

    padding: 10px;

}

/\*--------deforestation------\*/

img {

    max-width: 300px;

}

.point {

    font-size: 15px;

    font-family: sans-serif;

}

img {

    max-width: 300px;

}

.deforestation {

    background-color: burlywood;

}

/\*---------climate--------\*/

#predictor-form {

    max-width: 400px;

    margin: 0 auto;

    background-color: whitesmoke;

    padding: 20px;

    border-radius: 8px;

    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

  }

  label {

    display: block;

    margin-bottom: 8px;

  }

  select {

    width: 100%;

    padding: 8px;

    margin-bottom: 16px;

    box-sizing: border-box;

  }

  button {

    background-color: #4caf50;

    color: #fff;

    padding: 10px;

    border: none;

    border-radius: 4px;

    cursor: pointer;

  }

  button:hover {

    background-color: #45a049;

  }

  #prediction {

    margin-top: 20px;

    font-weight: bold;

  }

  .climate {

    background-color: skyblue;

  }

  /\*------Population-------\*/

  img {

    width: 300px;

}

.population {

    background-color:lavender;

}

/\*-------Human--------\*/

img {

    width: 300px;

}

.human {

    background-color: greenyellow;

}

/\*--------Invasive------\*/

img {

    width: 300px;

}

.invasive {

    background-color:aquamarine;

}

/\*---------Policy-------\*/

img {

    width: 300px;

}

.policy {

    background-color:beige;

}

/\*-------------------footer-----------------\*/

.footer {

    width: 100%;

    text-align: center;

    padding: 30px 0;

}

.footer:h4 {

    margin-bottom: 25px;

    margin-top: 20px;

    font-weight: 600;

}

.icons {

    width: 1px;

}