

Emerging Methods for Early Detection of Forest Fires

Team ID: PNT2022TMID03090

Problem Statement

To fight forest fires, different solutions were employed throughout the years. They were primarily aimed at the early detection of the fires. The simplest of these solutions is the establishment of a network of observation posts – both cheap and easy to accomplish, but also time-consuming for the involved people.

5Ws of the Problem Statement

Who does the problem affect?

The problem affects both the wildlife and Natural Eco-System.

What is the issue?

Loss of valuable timber resources. degradation of catchment areas. loss of biodiversity and extinction of plants and animals. loss of wildlife habitat and depletion of wildlife.

When does the issue occur?

Forest fires are usually seasonal. They usually start in the dry season and can be prevented by adequate precautions. Successive Five Year Plans have provided funds for forests fighting. During the British period, fire was prevented in the summer through removal of forest litter all along the forest boundary.

Where is the issue occurring?

Forest fires occur in many forest types particularly dry deciduous forest, while evergreen, semi-evergreen and montane temperate forests are comparatively less prone.

Why is important to fix the problem?

Fires are a major cause of forest degradation and have wide ranging adverse ecological, economic and social impacts, including: loss of valuable timber resources. degradation of catchment areas. loss of biodiversity and extinction of plants and animals.