



FACULTY OF APPLIED MEDICAL SCIENCES
كلية العلوم الطبية التطبيقية

Wildfire & Climate Change

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Topic : Climate Crisis

OBJECTIVES :

- **Define wildfire.**
- **Explain the behavior of wildfires.**
- **List causes of wildfires.**
- **Outline the effect of Wildfires on climate change.**
- **List the preventive measures of wildfires.**

A dramatic forest fire with large flames and smoke rising behind a line of trees. The fire is intense, with bright orange and yellow flames reaching high into the sky. The smoke is thick and dark, filling the upper portion of the image. The trees in the foreground are silhouetted against the bright fire.

Introduction

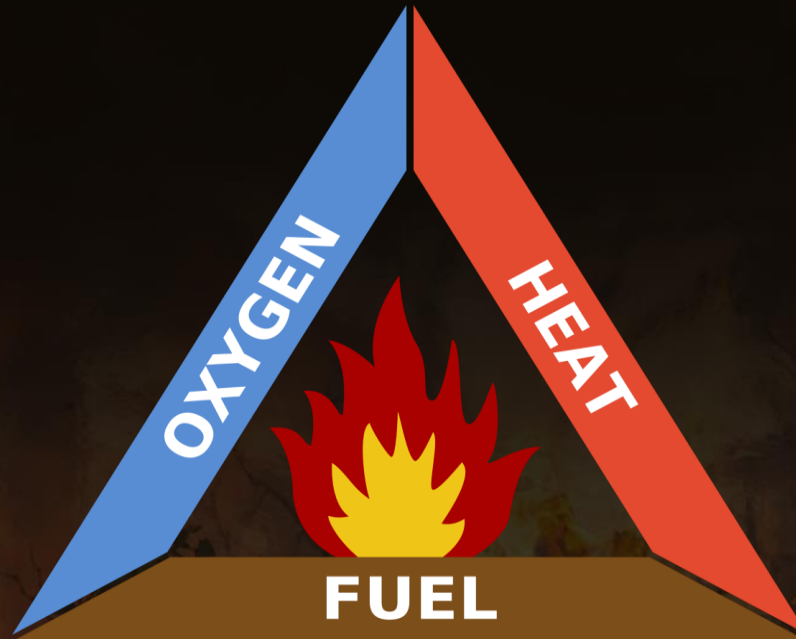


Definition of wildfire:

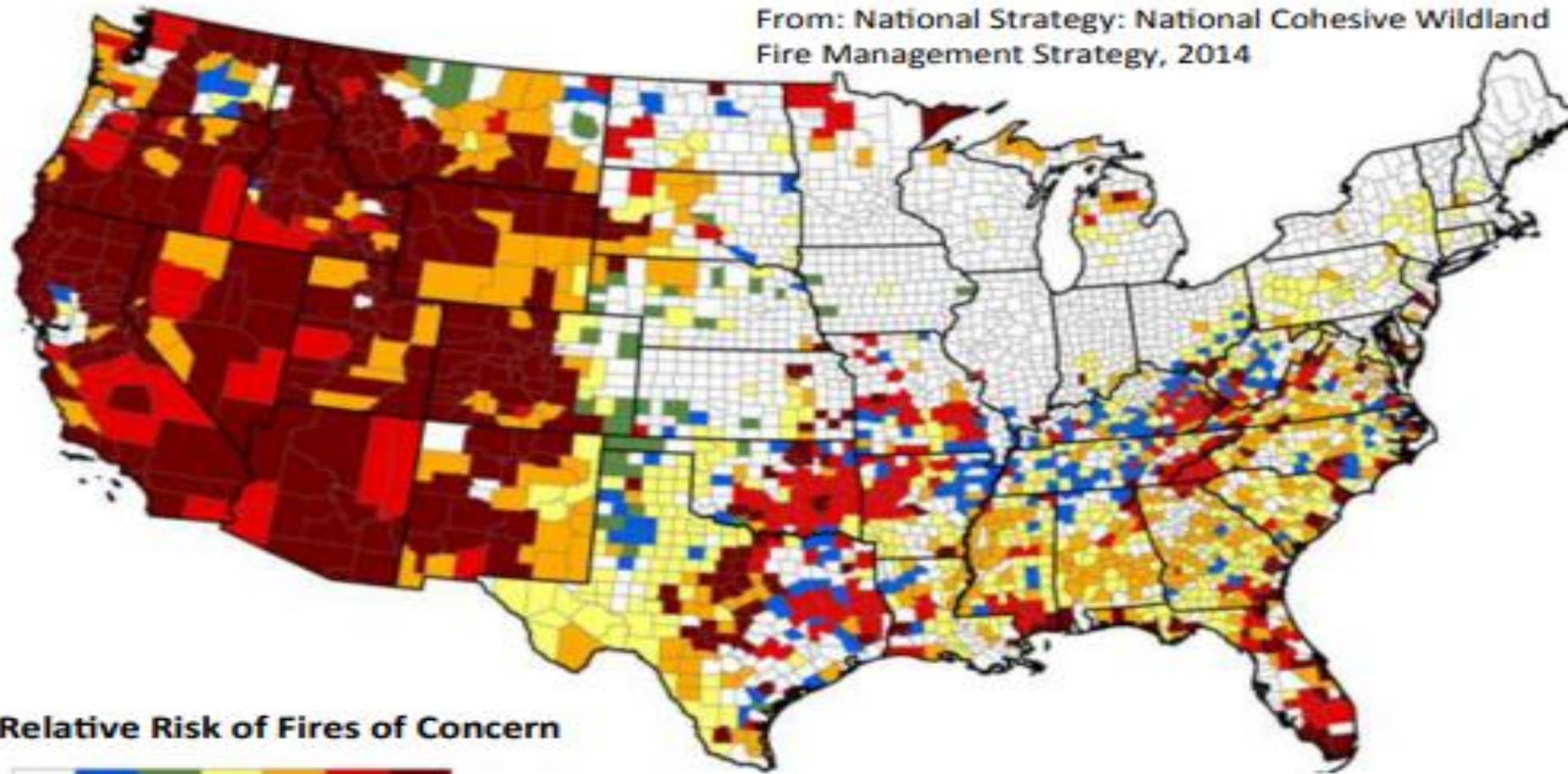
What is wildfire?
A wildfire is simply an uncontrolled fire that is wiping out large fields and areas of land.

Wildfire Behavior

-Wildfire require three components which so called the fire triangle



From: National Strategy: National Cohesive Wildland Fire Management Strategy, 2014



Relative Risk of Fires of Concern



Note: A fire of concern is great than 1 square mile in extent and requires two weeks or more to contain

Causes Of Wildfire



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graph TD; A[Causes Of Wildfire] --> B[1. Human causes]; A --> C[2. Natural causes];
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1. Human causes

2. Natural causes

Cont.

1. Human causes:

-90% of wildfires are caused by human activities such as:

1. Smoking: leading cause of fires and death globally

2. Unattended Campfires

3. Burning Debris

4. Fireworks

5. Arson

Cont.

2. Natural causes:

-Account for 10% of all wildfires

1. Lightning

2. Volcanic eruption

The Impacts of wildfire on climate & ecosystem:

1. Loss of Ecosystems and Biodiversity
2. Forest Degradation
3. Air Pollution
4. Soil Degradation
5. Economic Losses
6. Impacts to Human Well-being and Health

How to prevent wildfires?

- 1. Obey local laws regarding open fires.**
- 2. Keep all flammable objects away from fire.**
- 3. Have firefighting tools nearby and handy.**
- 4. Never leave a fire unattended.**
- 5. Carefully dispose of hot charcoal.**
- 6. Drown all fires.**
- 7. Carefully extinguish smoking materials.**



Conclusion

- **Wildfire is an uncontrolled fire that occurs frequently in wildland areas.**
- **it can also consume houses or agricultural resources.**
- **It has a significant impact on civilization, wildlife & atmosphere.**
- **Many steps can be taken to control it.**

References:

1. **Forest Fire Prevention Tips [Internet]. CT.gov - Connecticut's Official State Website. 2022 [cited 25 March 2022]. Available from: <https://portal.ct.gov/DEEP/Forestry/Forest-Fire/Forest-Fire-Prevention-Tips>**
2. **Awasthi D, Verma N, Awasthi G. Impact of wildfire on climate and air quality. International Journal of Scientific and Research Publications (IJSRP). 2019;9(9):p9333.**



THANK YOU