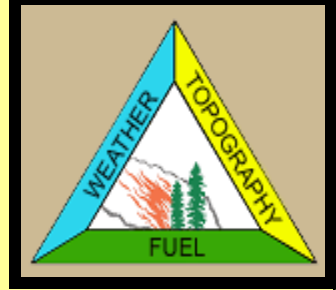


**FIRE
BEHAVIOUR**

**TOPIC 21A
FIRE INTENSITY**



INTENSITY CLASS 1



Intensity < 10 kW/m
No open flame
White smoke
Smouldering ground fire

INTENSITY CLASS 2

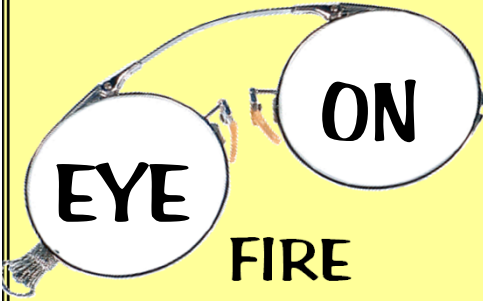


Intensity 10 – 500 kW/m
Visible open flame
Surface fire only
Unorganized flame front
Little or no spread

INTENSITY CLASS 3

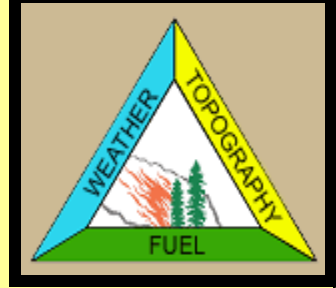


Intensity 500 - 2000 kW/m
Organized surface flame front
Moderate rate of spread
Vigorous surface fire
Candling along the perimeter or within the fire



**FIRE
BEHAVIOUR**

**TOPIC 21B
FIRE INTENSITY**



INTENSITY CLASS 4



- Intensity 2000 – 4000 kW/m**
- Organized surface flame front**
- Moderate to fast rate of spread on the ground**
- Short aerial bursts**
- Gray to black smoke**
- Short range spotting will occur**
- Disorganized crown involvement**

INTENSITY CLASS 5



- Intensity 4000 – 10000 kW/m**
- Organized crown fire front**
- Moderate to long range spotting**
- Independent spot fire growth**
- Black to copper smoke**

INTENSITY CLASS 6



- Intensity > 10000 kW/m**
- Organized crown fire front**
- Moderate to long range spotting**
- Independent spot fire growth**
- Presence of fire balls and whirls**
- Violent fire behaviour**