

Captain Gary Cummings



- Montgomery County encompasses an area of approximately 325,000 acres.
- Over 93,000 is parkland. Farms and other private woods are not included.





• As a county we have had a few larger wildland fires, most notably the Darnestown Complex on February 11, 2011 which burned approximately 500 acres and damaged or destroyed numerous buildings. This fire severely taxed MCFRS resources.





Large (>30acre) Laytonsville area BRUSH/WOODS FIRE, utilizing at least 10 engines, 8 water tankers, 12 brush trucks, MSP Helicopter



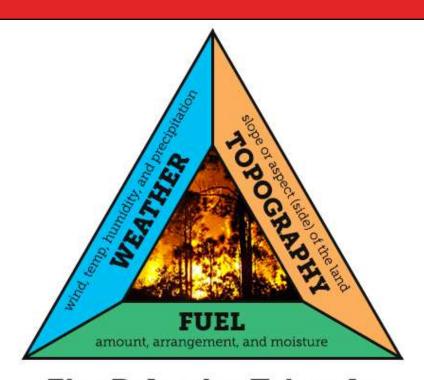




- •Wildfire Season September-April
- •Usually Multiple Starts







Fire Behavior Triangle

FUELS



- •Fuel Loading
- Continuity or Arrangement
- Moisture Content
- •Ground, Surface or Aerial Fuel
- Structures



WEATHER



- Wind
- •Relative Humidity
- •Temperature







- •Surface relative humidity (RH) less than 30 % for Maryland
- •Sustained surface wind of 20 MPH or greater
- •10-hour fuel moisture less than or equal to 8% for Maryland





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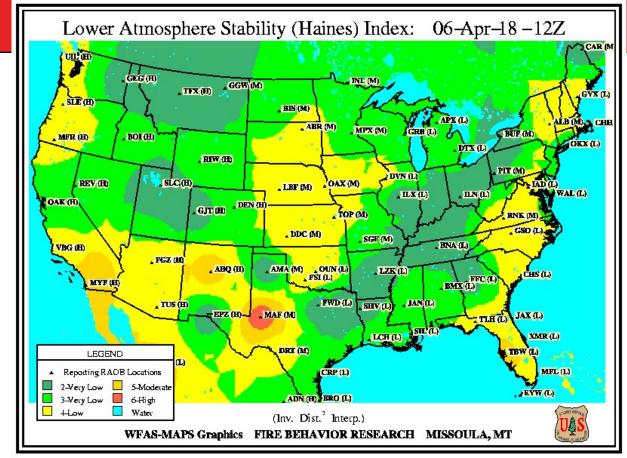
HAINES INDEX



- Haines Index (also known as Lower Atmosphere Severity Index) is a weather index developed by meterologist Donald Haines in 1988 that measures the potential for dry, unstable air to contribute to the development of large or erratic wildland fires.
- •The index is derived from the stability (temperature difference between different levels of the atmosphere) and moisture content (dew point depression) of the lower atmosphere.

HAINES INDEX





TOPOGRAPHY



- •Slope
- •Aspect
- •Shape
- Barriers







L-Lookouts

C-Communications

E-Escape Routes

S-Safety Zones

L-LOOKOUTS



- •Competent/Trusted Personnel
- •Multiple If Needed
- Good Vantage/Safe Location



C-COMMUNICATIONS



- On Same Talkgroup
- Location Of Crews
- Briefing To Arriving Resources



E-ESCAPE ROUTES



- Two Ways Out
- •Easy Path To Safety Zone



S-SAFETY ZONES



- Area Of Refuge
- Close Enough
- Large Enough



INCIDENT RESPONSE



- Fire Location
- Best Access
- Values Threatened
- Person Reporting the Fire
- Current Fire Weather Forecast
- Landowner, if Available
- Fire Cause, if Available







- •Size Up
- Establish Command
- Based on Resources:
 Holding Action,
 Evacuations, or Aggressive
 Initial Attack



INITIAL ATTACK



- Direct Attack- Related actions to cool, smother, starve, beat out or otherwise extinguish the flames. All control action directly against the fire edge.
- Indirect Attack- Control action conducted a variable distance from and usually parallel to the edge of a wildland fire in such a manner as to deprive the advancing fire of fuel and thereby halt its progress.















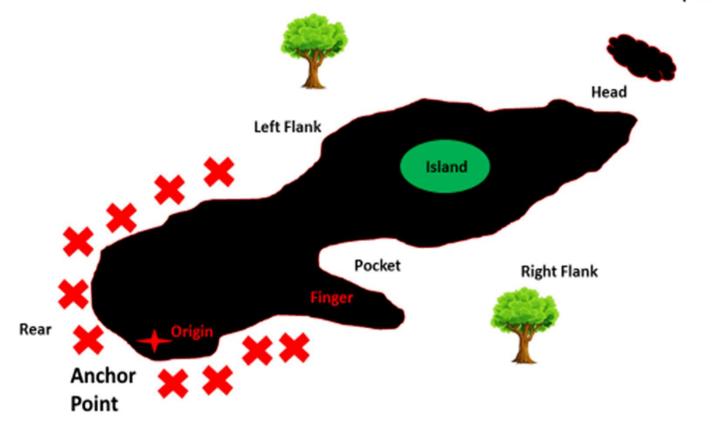


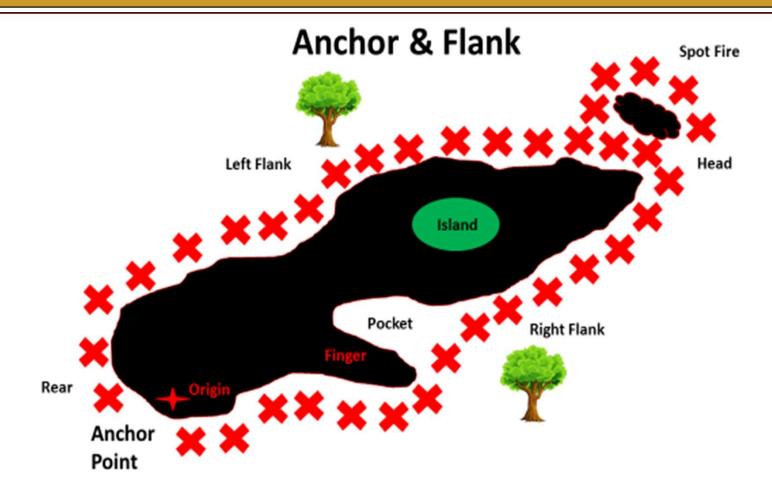


Anchor & Flank

Spot Fire











WILDLAND-URBAN INTERFACE

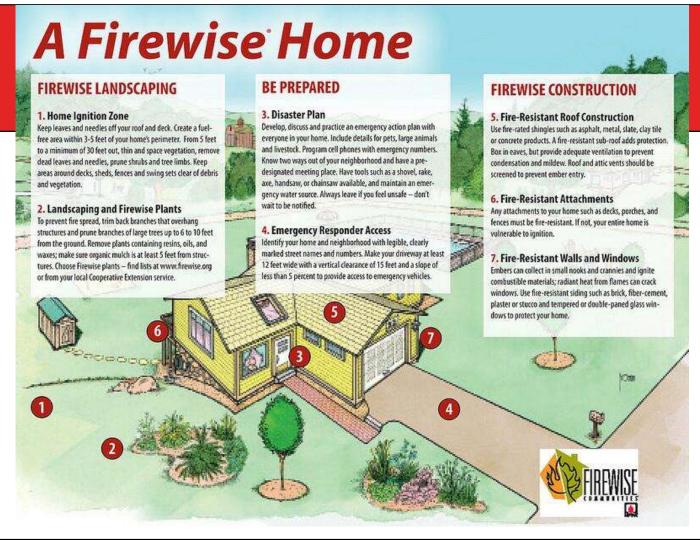
Return to Menu and Run Wildland Urban Interface Video

MOP UP

The process of making a controlled fire safe by extinguishing all remnants of fire within a specified strip adjacent to the control line. Many injuries and deaths occur during mop up. Stay Alert!









Before coming to MCFRS, Gary Cummings served with the Larimer County Sheriff's Department, Fort Collins, CO- Yellow Jackets Wildland Fire Crew for five seasons.

He also was employed with the U.S. Fish and Wildlife Service- Red Rock Lakes National Wildlife Refuge, Lima, MT.

Gary has a bachelors degree from Colorado State University in Natural Resources Management, specializing in Wildland Fire

End of Presentation