



SMOKE EMERGENCIES

CARPA

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POLLUTION CONTROL OFFICER*

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Define Roles:

- Health Officer's
- Air Pollution Control Officer's
- Clarify responsibilities
- Provide tools to execute responsibilities

Legal Responsibilities



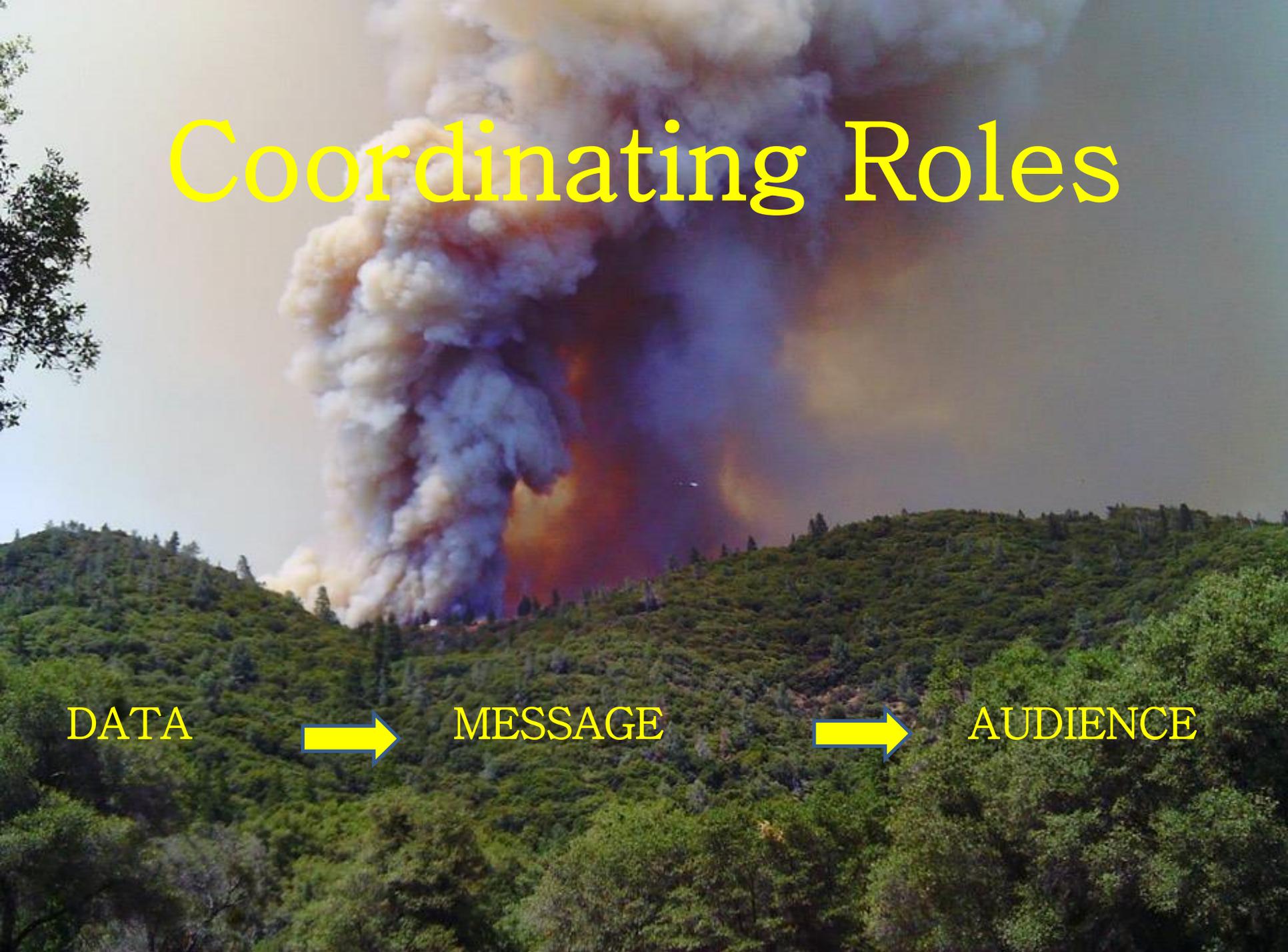
Health Officer

- May take any preventive measure necessary to protect the Public Health from any Public Health hazard during local emergency (H & S 101040).
- “Local Emergency” means... air pollution” (G.C. 8558).
- MHOAC functions in medical/health aspects of shelters and local emergencies (H&S 1797.153).

Air Pollution Control Officer

- Control Air Pollution from all sources other than vehicles.
- Enforce Rules & Regulations.
- A.P. Control District may, at request of ARB, provide for abatement of A.P. episodes which cause discomfort or health risk (H&S 40001).

Coordinating Roles



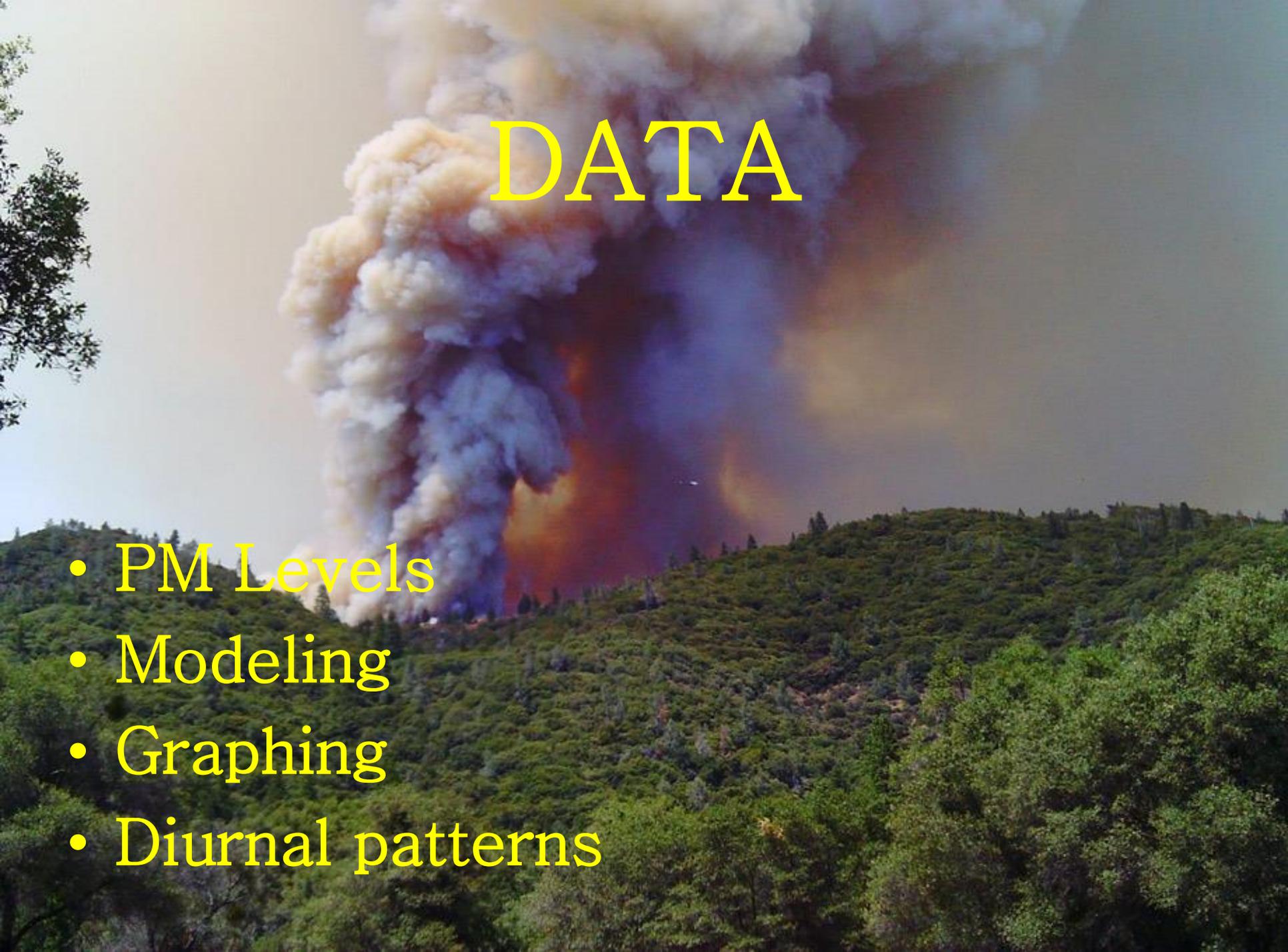
DATA



MESSAGE



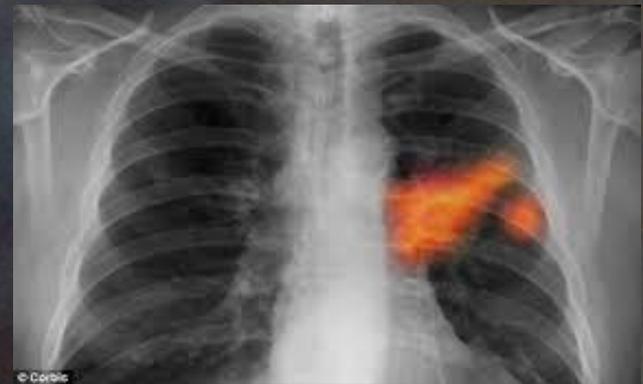
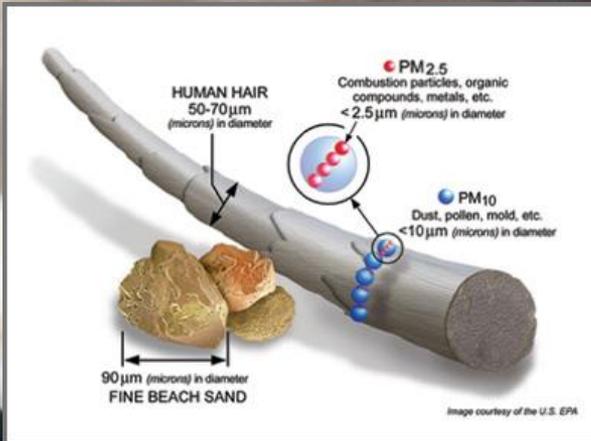
AUDIENCE

A large volcanic eruption is shown, with a massive plume of ash and smoke rising from a forested hillside. The plume is thick and billowing, with a dark, ashy core and lighter, steamy outer layers. The foreground is filled with dense green trees, and the sky is a mix of grey and blue, suggesting a hazy or overcast day. The word "DATA" is overlaid in large, yellow, serif font across the upper part of the image.

DATA

- PM Levels
- Modeling
- Graphing
- Diurnal patterns

MESSAGE

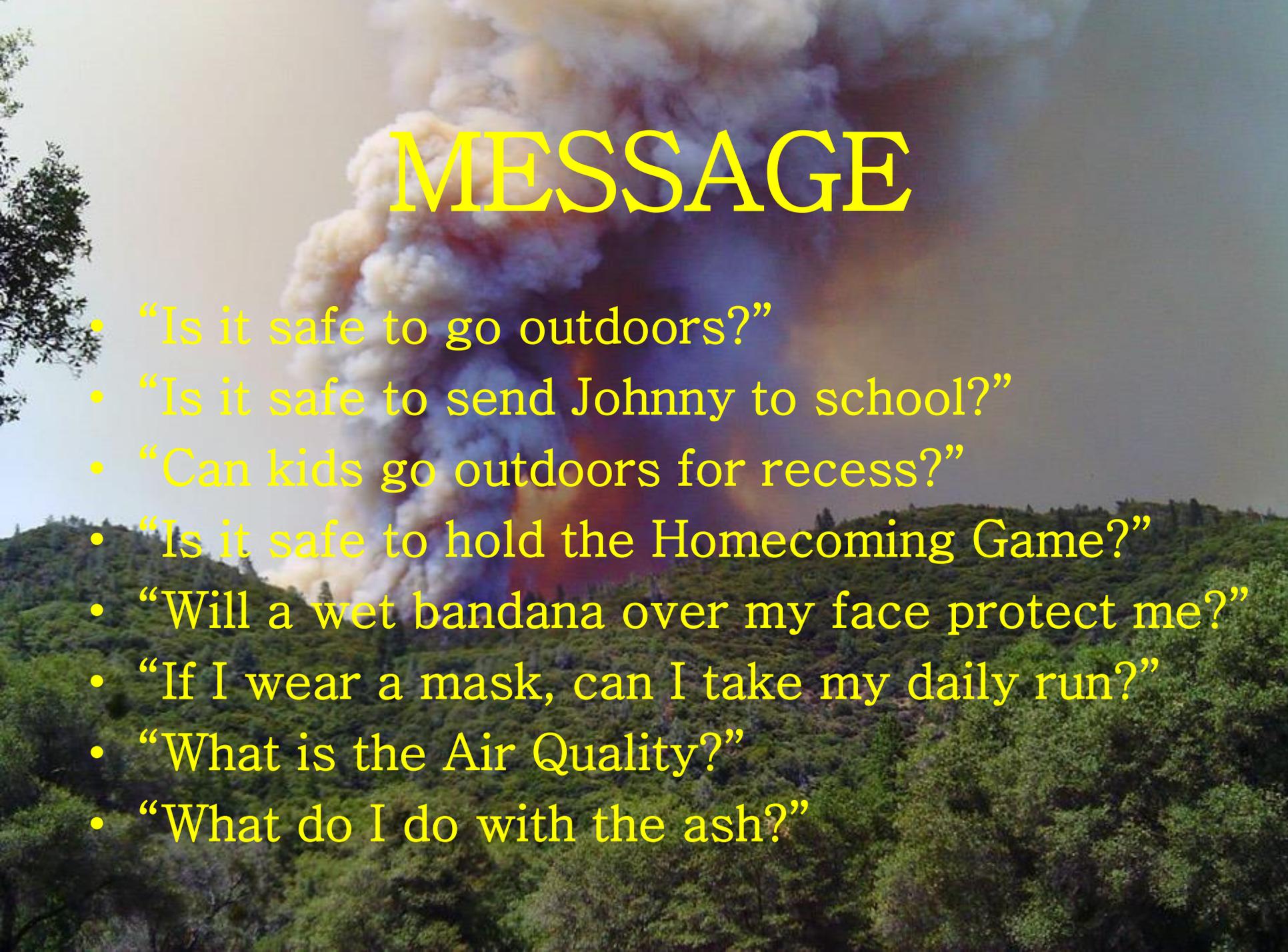


Adverse Health Impacts

MESSAGE

A large fire is burning, with thick, dark grey and black smoke billowing upwards into the sky. The smoke is dense and fills most of the upper half of the image. In the foreground, there is a dense forest of green trees, some of which are partially obscured by the smoke. The overall scene is dramatic and suggests a significant environmental or health hazard.

adverse health impacts – Lungs
adverse health impacts – Heart
adverse health impacts – Children
adverse health impacts – Elderly
adverse health impacts – Exercise



MESSAGE

- “Is it safe to go outdoors?”
- “Is it safe to send Johnny to school?”
- “Can kids go outdoors for recess?”
- “Is it safe to hold the Homecoming Game?”
- “Will a wet bandana over my face protect me?”
- “If I wear a mask, can I take my daily run?”
- “What is the Air Quality?”
- “What do I do with the ash?”

Table 3. Recommended Actions for Public Health Officials ^{2,3}

AQI Category (AQI Values)	PM2.5 or PM10 Levels (ug/m ³)			Visibility - Arid Conditions (miles)	Recommended Actions
	1-3hr avg	8 hr avg	24 hr avg ¹		
Good (0 to 50)	0 – 38	0 – 22	0 – 12	≥ 11	<ul style="list-style-type: none"> • If smoke event forecast, implement communication plan
Moderate (51 to 100)	39 – 88	23 – 50	12.1 – 35.4	6 – 10	<ul style="list-style-type: none"> • Issue public service announcements (PSAs) advising public about health effects and symptoms and ways to reduce exposure • Distribute information about exposure avoidance
Unhealthy for Sensitive Groups (101 to 150)	89 – 138	51 – 79	35.5– 55.4	3 – 5	<ul style="list-style-type: none"> • If smoke event projected to be prolonged, evaluate and notify possible sites for cleaner air shelters • If smoke event projected to be prolonged, prepare evacuation plans
Unhealthy (151 to 200)	139 – 351	80 – 200	55.5 – 150.4	1.5 – 2.75	<ul style="list-style-type: none"> • Consider “Smoke Day” for schools (i.e., no school that day), possibly based on school environment and travel considerations • Consider canceling public events, based on public health and travel considerations
Very Unhealthy (201 to 300)	352 – 526	201 – 300	150.5 – 250.4	1 – 1.25	<ul style="list-style-type: none"> • Consider closing some or all schools (Newer schools with a central air cleaning filter may be more protective than older, leakier homes. See “Closures”, below.) • Cancel outdoor events (e.g., concerts and competitive sports)
Hazardous (> 300)	> 526	> 300	> 250.5-500	< 1	<ul style="list-style-type: none"> • Close schools • Cancel outdoor events (e.g., concerts and competitive sports) • Consider closing workplaces not essential to public health • If PM level is projected to remain high for a prolonged time, consider evacuation of sensitive populations

A large volcanic eruption is shown, with a massive plume of ash and smoke rising into the sky. The plume is thick and billowing, with a dark, reddish-brown base that transitions to a lighter, greyish-white top. The eruption is set against a backdrop of a forested hillside with green trees. The sky is a pale, hazy blue.

To Audience

- Press Release
- Dedicated phone line
- Website
- Facebook
- Electronic bulletin board
- Public Information Officer

Masks and Respirators

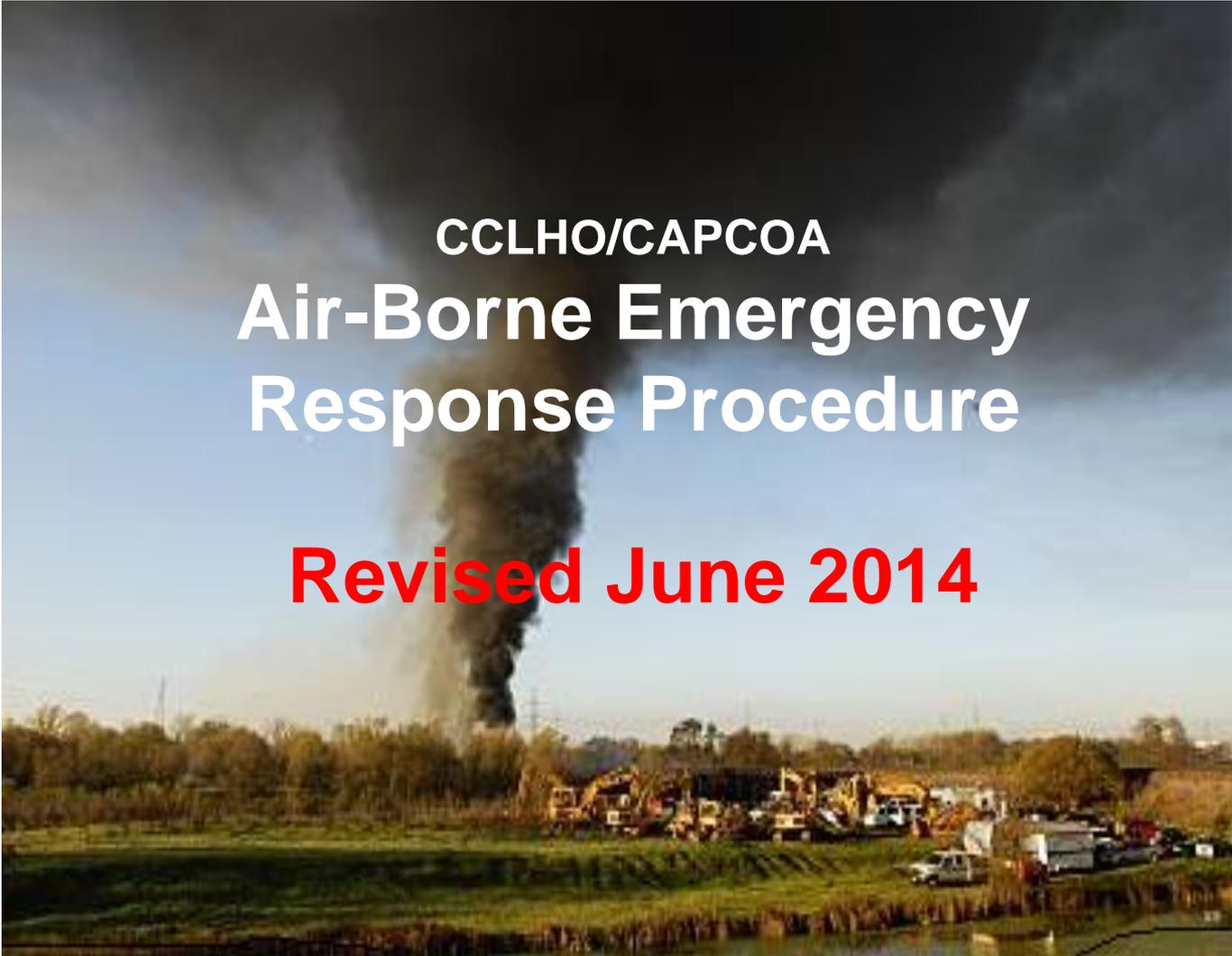


Masks and Respirators

A large volcanic eruption is shown, with a massive plume of ash and smoke rising into the sky. The plume is thick and dark, with some lighter, billowing sections. The background shows a forested hillside under a clear sky.

Last Gasp After:

- Reduce activity
- Shelter indoors
- Air conditioner/Air cleaner
- “Clean air” room
- “Clean air” shelter
- Reduce travel outdoors
- Leave the area/evacuate



CCLHO/CAPCOA
Air-Borne Emergency
Response Procedure

Revised June 2014

Mariposa County Health Department
Mariposa County Air Quality District



Questions