

Mitigation Efforts

What is being done to reduce PM₁₀ Pollution?

Campbell and Sweetwater County facilities subject to 40 CFR 60 Subpart Y are required to develop site-specific Fugitive Dust Control Plans.

Per Wyoming permit conditions, facilities must utilize Best Available Control Technologies to reduce or eliminate emissions. For large operations, this may include:

- The paving of access roads;
- The treating of major haul roads with a suitable dust suppressant;
- The treatment of temporary haul roads;
- The use of silos, trough barns, or similar enclosed containers for the storage of large volumes of material awaiting load out and shipment;
- The treatment of active work areas;
- The treatment of temporary ore stockpiles.

Additionally, facilities may implement Reactionary Control Measures (RACT) during high wind events. These actions may include shutting down extraneous equipment and creating wind entrapments.

Additional Resources

Wyoming DEQ Website – Information about air quality:

<https://deq.wyoming.gov>

WyVisNet – Wyoming DEQ's current ambient air monitoring data:

<https://www.wyvisnet.com>

Open Air – View Wyoming air permits and ambient air monitoring reports:

<https://openair.wyo.gov>

AirNow – Air quality data administered by the EPA: <https://www.airnow.gov>

Ideal conditions



Dusty conditions



HIGH WINDS AND BLOWING DUST HEALTH NOTIFICATION BROCHURE

Campbell and Sweetwater Counties in Wyoming



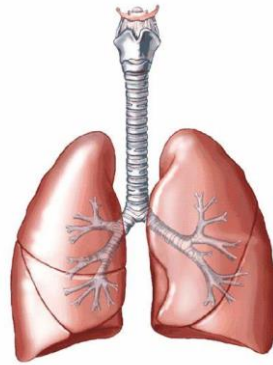
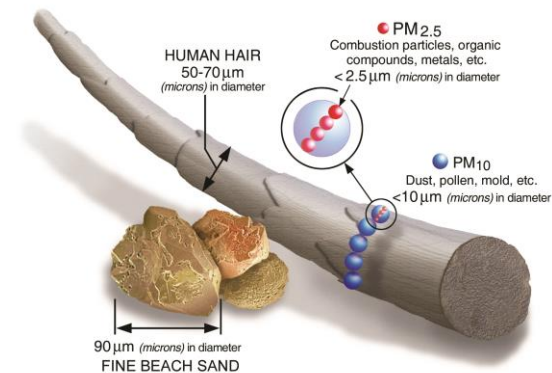
**WYOMING
DEPARTMENT OF
ENVIRONMENTAL
QUALITY**

200 West 17th Street
Cheyenne, WY 82002
(307)777-7393

Background

Why are there high winds and blowing dust health notifications for Campbell and Sweetwater Counties?

High winds are not uncommon in Campbell and Sweetwater Counties in Wyoming. In low soil moisture conditions, these winds entrain particulate matter into the air and cause elevated levels of particulate matter. Occasionally, during these events, the amount of dust in the air may exceed the national and state air quality standards for particulate matter, subjecting County residents and visitors to unhealthy levels of air pollution.



How does Particulate Matter affect human health?

Particulate matter pollution consists of liquid and solid particles floating in the air. Particulate matter having a diameter equal to or less than 10 microns are commonly referred to as PM₁₀. PM₁₀ can be made of a mixture of particles including dust, soot, smoke, salts, and metals.

Because PM₁₀ is so small and is capable of being inhaled deep into the lungs, it is an important public health and environmental concern- especially in areas susceptible to frequent high winds that lift dust and soils into the air and transport it. Certain sensitive populations, including children, the elderly, and those suffering from pre-existing conditions including asthma, and chronic obstructive pulmonary disease are especially vulnerable to PM₁₀'s health effects.

Public Notification

What is the high winds and blowing dust health notification program?

A public warning will be issued on days when wind speeds and other conditions are currently or forecasted to be conducive for blowing dust episodes. The Wyoming DEQ will forecast for high winds and blowing dust for Campbell Co and Sweetwater Co, respectively.

What actions should be taken during a high winds and blowing dust health notification?

People with respiratory problems, the elderly, or children should limit outdoor activity in areas covered by the forecast.

Please contact your healthcare provider for further information or individual-specific health concerns.