



**YUMA AND VICINITY
DUST CONTROL ACTION FORECAST**

ISSUED FRIDAY, JULY 03, 2009

Three-day weather outlook:

NOTE: During active summer monsoon episodes, outflows from even distant thunderstorms have the potential to cause periods of gusty winds and dense blowing dust.

An overall decrease in monsoon moisture the next few days will nearly eliminate the threat for gusty outflow winds and blowing dust in the Yuma area this weekend. Thus, relatively light gradient/terrain-driven winds are expected the next few days.

WINDS

WIND-BLOWN DUST RISK

Day #1: Sat 07/04/2009	No significant winds expected.	LOW
Day #2: Sun 07/05/2009	No significant winds expected.	LOW
Day #3: Mon 07/06/2009	No significant winds expected.	LOW

PM-10 & PM-2.5 (PARTICLES)

Description – The term “particulate matter” (PM) includes both solid particles and liquid droplets found in air. Many manmade and natural sources emit PM directly or emit other pollutants that react in the atmosphere to form PM. Particles less than 10 micrometers in diameter tend to pose the greatest health concern because they can be inhaled into and accumulate in the respiratory system. Particles less than 2.5 micrometers in diameter are referred to as “fine” particles and are responsible for many visibility degradations (brown cloud). Particles with diameters between 2.5 and 10 micrometers are referred to as “coarse”.

Sources – Fine = All types of combustion (motor vehicles, power plants, wood burning, etc.) and some industrial processes. Coarse = crushing or grinding operations and dust from paved or unpaved roads.

Potential health impacts – PM can increase susceptibility to respiratory infections and can aggravate existing respiratory diseases, such as asthma and chronic bronchitis.

Units of measurement – Micrograms per cubic meter (ug/m3)

Averaging interval – 24 hours (midnight to midnight).

Reduction tips – Stabilize loose soils, minimize travel on dirt roads, utilize tarps on haul trucks, limit use of leaf-blowers, and on high-wind days reduce outdoor activities.