



**YUMA AND VICINITY
DUST CONTROL ACTION FORECAST
ISSUED FRIDAY, FEBRUARY 10, 2012**

Three-day weather outlook:

Breezy conditions are likely this weekend as a series of systems moves through the region. The first will race through late Saturday into Sunday, followed by another late Monday into Tuesday and again Tuesday into Wednesday. At this point, the strongest winds aren't expected until Tuesday. Models don't show much moisture with these systems. Below normal temperatures are expected however. For now, the risk of wind-blown dust in Yuma is forecast to remain **Low** through Monday.

	<u>WINDS</u>	<u>WIND BLOWN DUST RISK</u>
Day 1: Sat 02/11/2012	West winds between 10 and 15 mph are expected, gusting to 20 mph a times.	LOW
Day 2: Sun 02/12/2012	No significant winds are expected early, breezy late.	LOW
Day 3: Mon 02/13/2012	South-southwest winds between 10 and 20 mph are expected late.	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.