



**YUMA AND VICINITY  
DUST CONTROL ACTION FORECAST  
ISSUED FRIDAY, NOVEMBER 20, 2009**

Three-day weather outlook:

A general ridge of high pressure will remain over the region through much of next week keeping afternoon desert temperatures in the mid to upper 70s. Mostly sunny skies and relatively light winds will persist across Arizona through the weekend. Thus, the risk of wind-blown dust in Yuma will be “Low” through Monday.

	<u>WINDS</u>	<u>WIND BLOWN DUST RISK</u>
<b>Day #1: Sat 11/21/2009</b>	No significant winds are expected.	<b>LOW</b>
<b>Day #2: Sun 11/22/2009</b>	No significant winds are expected.	<b>LOW</b>
<b>Day #3: Mon 11/23/2009</b>	No significant winds are expected.	<b>LOW</b>

**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.