



**YUMA AND VICINITY
DUST CONTROL ACTION FORECAST
ISSUED MONDAY, FEBRUARY 08, 2010**

Three-day weather outlook:

The next in a series of trough and frontal passages will occur in the Yuma area midweek. Moderate gradient winds on Wednesday may be enhanced at times by outflow from thunderstorms. Even so, recent rainfall episodes should help keep local areas of blowing dust isolated and short-lived.

WINDS

WIND-BLOWN DUST RISK

Day #1: Tue 02/09/2010

No significant winds expected.

LOW

Day #2: Wed 02/10/2010

South to southwesterly 10-20 mph with gusts near 25 mph except stronger due to outflow from thunderstorms.

MODERATE

Day #3: Thu 02/11/2010

Northwest to northerly 10-20 mph by afternoon.

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.