



**GREEN VALLEY AND VICINITY
DUST RE-ENTRAINMENT RISK WIND 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 re-entrained dust in Green Valley will be "Low" through Monday.

WINDS

RE-ENTRAINMENT RISK

Day #1: Sat 11/21/2009

No significant winds are expected.

LOW

Day #2: Sun 11/22/2009

No significant winds are expected.

LOW

Day #3: Mon 11/23/2009

No significant winds are expected.

LOW

PM-10 (COARSE 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 with diameters between 2.5 and 10 micrometers are referred to as “coarse”.

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

Exposure reduction measures – During high-wind or other events that prompt a forecasted **MODERATE** or **HIGH** risk of transported dust over the Green Valley area, sensitive persons should remain indoors and close windows and doors.

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

Real-time data – ADEQ operates a network of Portable Particulate Monitors. Data from these monitors – including those located near Green Valley – can be accessed at: <http://www.phoenixvis.net/PPMmain.aspx>