



**GREEN VALLEY AND VICINITY
DUST RE-ENTRAINMENT RISK WIND FORECAST
ISSUED MONDAY, MARCH 15, 2010**

Three-day weather outlook:

A ridge aloft building over AZ from the west today will remain overhead thru Wednesday. A weak trough from the west and another from the north will merge over the state during the Thursday/Friday timeframe but no significant weather impacts are expected. A gusty northeast to easterly wind regime will occur on Tuesday & Wednesday.

	<u>WINDS</u>	<u>RE-ENTRAINMENT RISK</u>
Day #1: Tue 03/16/2010	No significant winds expected.	LOW
Day #2: Wed 03/17/2010	No significant winds expected.	LOW
Day #3: Thu 03/18/2010	No significant winds 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).