



**GREEN VALLEY AND VICINITY
DUST RE-ENTRAINMENT RISK WIND FORECAST
ISSUED THURSDAY, SEPTEMBER 02, 2010**

Three-day weather outlook:

NOTE: During active summer monsoon episodes, outflows from even distant thunderstorms have the potential to cause periods of strong gusty winds and dense blowing dust.

A very low-grade summer monsoon pattern is shaping up for the Green Valley area this weekend. Just a slight chance for monsoon thunderstorms and outflow boundaries is expected at times, but as always under these conditions there will be a heightened risk for re-entrained dust.

	<u>WINDS</u>	<u>RE-ENTRAINMENT RISK</u>
Day #1: Fri 09/03/2010	No significant winds expected except strong and gusty due to outflow from thunderstorms.	MODERATE
Day #2: Sat 09/04/2010	No significant winds expected.	LOW
Day #3: Sun 09/05/2010	No significant winds expected except strong and gusty due to outflow from thunderstorms.	MODERATE

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).