



NOGALES AIR QUALITY FORECAST ISSUED Friday, December 2, 2016

This report is updated by 1:00 p.m. Sunday thru Friday and is valid for the U.S./Mexico border in proximity to the city of Nogales.

FORECAST DATE	YESTERDAY Thu 12/01/2016	TODAY Fri 12/02/2016	TOMORROW Sat 12/03/2016	EXTENDED Sun 12/04/2016
NOTICES				
AIR POLLUTANT	AQI Reading/Category (Preliminary data only)			
PM-10 (Particles 10 microns and smaller)	54 MODERATE	48 GOOD	37 GOOD	41 GOOD
PM-2.5 (Particles smaller than 2.5 microns)	67 MODERATE	58 MODERATE	46 GOOD	50 GOOD

PM-10 or PM-2.5 Health Watch (HW) means that the highest concentration of PM-10 or PM-2.5 may approach the federal health standard.
PM-10 or PM-2.5 High Pollution Advisory (HPA) means that the highest concentration of PM-10 or PM-2.5 may exceed the federal health standard.

Health Statements	
Friday 12/02/2016	Unusually sensitive people should consider reducing prolonged or heavy exertion outdoors.
Saturday 12/03/2016	No health impacts are expected.

Synopsis and Discussion

Both particulates ended up in the Moderates yesterday as expected. Fortunately, we are starting to see some improvement in the air quality due to the weather system pushing through the region. Today we have upper-Good forecast for PM-10 and lower-Moderate for PM-2.5, but it's possible we will see concentrations stay even lower than that. For Saturday and Sunday, we anticipated enough atmospheric mixing from the weather system to keep particulates in the Good range.

The system will bring a chance of light showers beginning this afternoon and lasting into tomorrow. Additionally, we may see some breeziness over the next few days, but nothing too strong. Temperatures will remain cool with afternoon highs around the 60°F mark this weekend.

Check back on Friday for a closer look at the weekend's weather and air quality. Until then, have a good day! –R.Nicoll

Check out our new reports on recent observed air quality data for [PM-10](#) and [PM-2.5](#). The permanent location of the links will be in the "Useful Links" table below.

POLLUTION MONITOR READINGS FOR Thursday, December 1, 2016

[PM-10 \(COARSE PARTICLES\)](#)

SITE NAME	MAX 24-HR VALUE ($\mu\text{g}/\text{m}^3$)	MAX AQI	AQI COLOR CODE
Nogales	62	54	

[PM-2.5 \(FINE PARTICLES\)](#)

SITE NAME	MAX 24-HR VALUE ($\mu\text{g}/\text{m}^3$)	MAX AQI	AQI COLOR CODE
Nogales	19.5	67	

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PM-10 AND 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. 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, dust from paved or unpaved roads, as well as dirt and sand from the open desert.

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 ($\mu\text{g}/\text{m}^3$)

AVERAGING INTERVAL: 24 hours (midnight to midnight).

REDUCTION TIPS: Stabilize loose soils, slow down on dirt roads, carpool, and use public transit, reduce or avoid wood burning or fireplace activity where advised.

Updated 8/11/2016