



PINAL COUNTY






FORECAST

| | | | | | |
|-------------|-------------------|--|---------------------|--------------------------|---------------------|
| GOOD (0-50) | MODERATE (51-100) | UNHEALTHY FOR SENSITIVE GROUPS (101-150) | UNHEALTHY (151-200) | VERY UNHEALTHY (201-300) | HAZARDOUS (301-500) |
|-------------|-------------------|--|---------------------|--------------------------|---------------------|

AIR QUALITY FORECAST FOR TUESDAY JUNE 19, 2018

This forecast is updated by 1:00 p.m. Monday through Friday and as needed (AQI Forecast on [Twitter](#) – see tables below for location specific Twitters)

| | Highest AQI value/Site in Pinal County | Highest AQI forecasted value (see tables below for forecasts by monitoring location) | | | | |
|-------------------------|--|---|----------------------|--|---|--|
| | | YESTERDAY SUN 6/17/18 | TODAY MON 6/18/18 | TOMORROW TUE 6/19/18 | EXTENDED WED 6/20/18 | EXTENDED THU 6/21/18 |
| OZONE | 41 PINAL AIR PARK | 50 GOOD | 80 MODERATE | 95 MODERATE | 100 MODERATE | 110 UNHEALTHY FOR SENSITIVE GROUPS |
| PM _{2.5} | 35 CASA GRANDE | 45 GOOD | 47 GOOD | 50 GOOD | 55 MODERATE | 65 MODERATE |
| PM ₁₀ | 17** ELEVEN MILE CORNER | 35** GOOD | 45** GOOD | 50** GOOD | 55** MODERATE | 60** MODERATE |
| HEALTH WATCH/ ADVISORY* | NONE | NONE | NONE | OZONE HEALTH WATCH  POSSIBLE | OZONE HEALTH WATCH  POSSIBLE | OZONE HIGH POLLUTION ADVISORY  POSSIBLE |

** Excludes the Hidden Valley Monitor, see Hidden Valley PM₁₀ table below

PM₁₀ = Particles 10 microns and smaller; PM_{2.5} = Particles 2.5 microns and smaller

“Ozone Health Watch” means that the highest concentration of OZONE may approach the federal health standard.

AIR QUALITY FORECAST FOR
PM_{2.5} (PARTICLES)

| SITE NAME | TODAY AQI FORECAST MON 6/18/18 | TOMORROW AQI FORECAST TUE 6/19/18 | EXTENDED AQI FORECAST WED 6/20/18 | EXTENDED AQI FORECAST THU 6/21/18 | EXTENDED AQI FORECAST FRI 6/22/18 |
|--|---|--|--|--|--|
| Casa Grande (Twitter: CG_AQI) | 45 | 45 | 46 | 46 | 45 |
| Hidden Valley (Twitter: HV_AQI) | 45 | 47 | 50 | 55 | 65 |

AIR QUALITY FORECAST BY LOCATION FOR
PM₁₀ (PARTICLES)

| SITE NAME | TODAY AQI FORECAST MON 6/18/18 | TOMORROW AQI FORECAST TUE 6/19/18 | EXTENDED AQI FORECAST WED 6/20/18 | EXTENDED AQI FORECAST THU 6/21/18 | EXTENDED AQI FORECAST FRI 6/22/18 |
|---|---|--|--|--|--|
| Apache Junction (Twitter: AJ_AQI) | 15 | 18 | 20 | 22 | 21 |
| Casa Grande (Twitter: CG_AQI) | 25 | 30 | 37 | 42 | 45 |
| Eleven Mile Corner (Twitter: PC_Housing_AQI) | 30 | 35 | 41 | 45 | 48 |
| Eloy (Twitter: Eloy_AQI) | 29 | 34 | 40 | 43 | 44 |
| Maricopa (Twitter: Maricopa_City_AQ) | 33 | 37 | 41 | 42 | 41 |
| Pinal Air Park (Twitter: PAP_AQI) | 25 | 27 | 29 | 35 | 40 |
| San Tan Valley Twitter: Santan_AQI | 33 | 40 | 45 | 50 | 52 |
| Stanfield (Twitter: Stanfield_AQI) | 35 | 45 | 50 | 55 | 60 |

AIR QUALITY FORECAST BY LOCATION FOR OZONE

| SITE NAME | TODAY AQI FORECAST MON 6/18/18 | TOMORROW AQI FORECAST TUE 6/19/18 | EXTENDED AQI FORECAST WED 6/20/18 | EXTENDED AQI FORECAST THU 6/21/18 | EXTENDED AQI FORECAST FRI 6/22/18 |
|--|---|--|--|--|--|
| Apache Junction (Twitter: AJ AQI) | 50 | 80 | 95 | 100 | 110 |
| Casa Grande (Twitter: CG AQI) | 49 | 50 | 65 | 70 | 75 |
| Pinal Air Park (Twitter: PAP AQI) | 49 | 50 | 70 | 75 | 80 |

* The symbols used for the Health Watch/Advisory are shown below



- Symbol for Health Watch (HW)



- Symbol for High Pollution Advisory (HPA)

AIR POLLUTANTS IN DETAIL

PM₁₀ & 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 such as the “Valley Brown Cloud” (see <http://www.phoenixvis.net/>). 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, slow down on dirt roads and carpool.

O₃ OZONE:

Description – This is a secondary pollutant that is formed by the reaction of other primary pollutants (precursors) such as VOCs (volatile organic compounds) and NO_x (Nitrogen Oxides) in the presence of heat and sunlight. The ozone “season” generally

occurs during the spring and summer months (April-October) when high temperatures and extended daylight hours create the conditions most conducive to ozone formation.

Sources – VOCs are emitted from motor vehicles, chemical plants, refineries, factories, and other industrial sources. NO_x is emitted from motor vehicles, power plants, and other sources of combustion.

Potential health impacts – Exposure to ozone can make people more susceptible to respiratory infection, result in lung inflammation, and aggravate pre-existing respiratory diseases such as asthma. Other effects include decrease in lung function, chest pain, and cough.

Unit of measurement – Parts per billion (ppb).

Averaging interval – Highest eight-hour period within a 24-hour period (midnight to midnight).

Reduction tips – Curtail daytime driving, refuel cars and use gasoline-powered equipment as late in the day as possible.