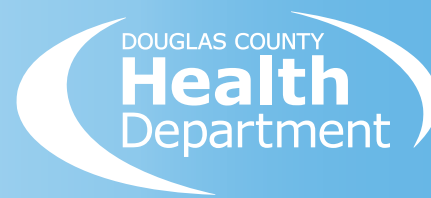
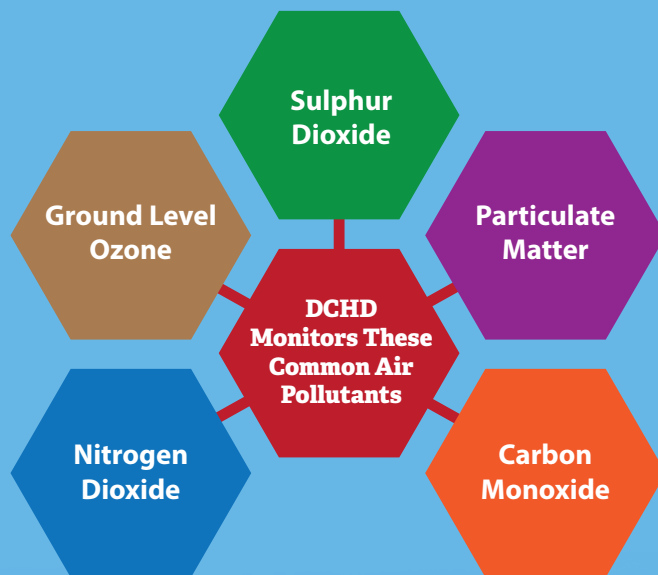


Available now: the most current air quality data



In 1968, Douglas County Health Department (DCHD) deployed and maintained the first air quality monitors. Air quality specialists checked the monitors in person several times a day to manually record data. Over the years, air quality monitoring has changed quite a bit. Today, DCHD air quality specialists monitor the metro area for pollutants remotely, with real-time data transmitted from nine locations across the metro area.

Now for the first time, this same up-to-date data from DCHD's monitoring sites is available to the public.



DouglasCountyAirQuality.com

Bellevue
Site Information
Location: Cross section streets Highway 370 and Golden Blvd ADA# 31-153-0007
Elevation: 1,109'
Latitude: 43.13
Longitude: 95.91
Pollutant: sulphur dioxide (SO₂)

1

Pollutant readings for last 24 hours
Data is updated every hour

Particulate Matter

2

Monitor Location:
Currently Douglas County has three continuous monitors for PM₁₀ and one for PM_{2.5}. These are the monitors used for PM₁₀ and one for PM_{2.5}. The station used on the Health Department's Midtown Campus, 2500 North 13th Street in Bellevue, monitors for PM₁₀ and PM_{2.5}. There are also three filter based samplers located in proximity to Miles Community College, Southern Campus and Douglas University. Four filter based PM₁₀ monitors are located at the Home Station at Memorial Community Hospital and Health System in Blair, NE, and an elementary school in Neligh, NE.

Source:
PM₁₀ can be produced by agriculture, unpaved roads and roads, PM₁₀ levels can be made up of dust, pollen and mold. Direct sources of PM₁₀ and PM_{2.5} include law and maintenance construction sites, agricultural fields, unpaved roads, and construction sites. Indirect sources of PM occur during chemical reactions of sulfur dioxide and nitrogen oxides from power plants, industrial processing plants and/or motor vehicles.

Health effects:
Exposure to PM₁₀ could result in irregular heartbeat, increased respiratory symptoms, coughing, difficulty breathing, and decreased lung function. PM_{2.5} poses the greater health risk because the small particles can penetrate deep into the lungs causing tissue damage.

Natural Ambient Air Quality Standards

Pollutant	Averaging Time	Level
Particulate Matter PM ₁₀	24 hours	150 µg/m ³
Particulate Matter PM _{2.5}	Annual Mean	12 µg/m ³
Particulate Matter PM _{2.5}	Annual Mean	12 µg/m ³
Particulate Matter PM ₁₀	24 hours	150 µg/m ³

For additional details pertaining to the NAQS primary and secondary standards visit <http://www.epa.gov/naaqs/naaqs.cfm>

What can you do?

- When possible, walk, bike, carpool, or use public transportation to commute and/or car-carpool.
- Combine errands and reduce trips.
- Avoid excessive idling of your automobile.
- Maintain gas operated engines in good repair (i.e. car, boat, and lawn mowers).
- We'll still be working to mow the lawn and do yard work.
- Mow or compost lawns and yard waste.
- Consider using alternatives to wood logs.

Pollutant readings for last 24 hours for continuous monitors and 3 month for filter based monitoring
Data is updated every hour

Air Quality Monitors

3

4

Current Condition
Air Quality Index (AQI)
23

Forecast
Air Quality Index (AQI)
TODAY: AQI 23 (Good)
TOMORROW: AQI 23 (Good)

AQI - Forecast - Pollutant Details

Pollutant	Level
Carbon Monoxide	1.0 (Good)
Ozone	2.0 (Good)
Particulate Matter 10	1.0 (Good)
Particulate Matter 2.5	2.5 (Good)
Sulfur Dioxide	0.0 (Good)
Nitrogen Dioxide	0.0 (Good)
Ozone	2.0 (Good)
Particulate Matter (PM ₁₀)	1.0 (Good)
Particulate Matter (PM _{2.5})	2.5 (Good)

Data is accessible four ways:

- 1** All nine of DCHD's monitoring sites have their own pages, with a chart of pollutant readings from the last 24 hours, and specific information about the equipment used to capture the data.
- 2** All six of the pollutants DCHD monitors also have their own pages, with charts on each pollutant, information on health effects and little steps you can take to help improve the air.
- 3** Data from all of DCHD's monitors are available on one dashboard, allowing visitors to see everything at once.
- 4** Current and forecasted Air Quality Index (AQI) is shown on the homepage, with breakdowns by pollutant.