

Monitoring PM_{2.5}

Newer Technology, Better Data,
Same Air Quality.

Measuring Pollutants in Air

Air pollution can affect the health of people and the environment. Air quality is now reported to the public in real time from over twenty locations. For more information on Alberta's air quality, visit: airquality.alberta.ca.



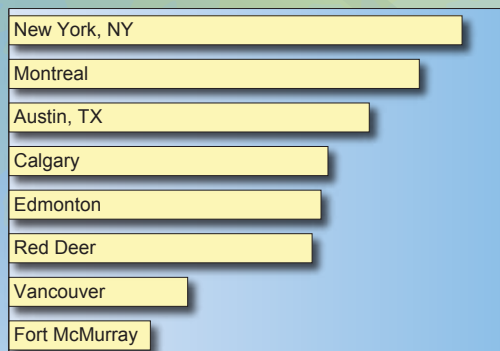
Human hair
(70 micrometres)

Comparing the diametres of human hair and PM_{2.5}

Fine PM
(2.5 micrometres)



Annual Average PM_{2.5} in Selected Cities (2009)

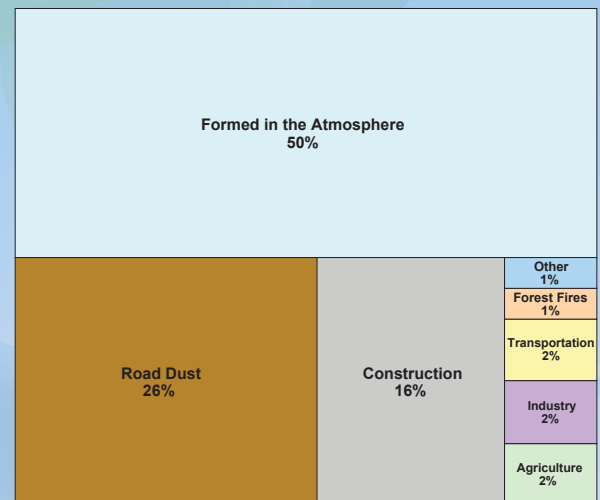


Source: Alberta Environment and Sustainable Resource Development, Environment Canada and World Health Organization.

Measuring Pollutants in Air

Many pollutants are monitored, including fine particulate matter (PM_{2.5}) - particles in the air that are less than 2.5 micrometres in diameter. Due to its small size, PM_{2.5} can go deep into the lungs and may impact human health.

Sources of Fine Particulate Matter in Alberta



The size of the boxes indicates relative contribution of PM_{2.5} in Alberta.

Same Air, Different Measurement Technology

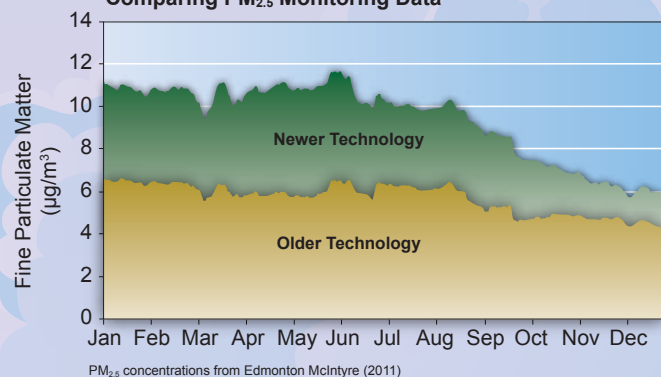
Since 2009, Alberta has been using newer technology to measure PM_{2.5}. Older technology led to loss of some PM_{2.5}, while the new technology better retains the whole sample to give more accurate data. With this improvement, it also means that measured values can be higher.

Alberta Values Clean Air

Alberta has implemented better air quality monitoring technology to provide a more complete picture of PM_{2.5}. Widescale reporting in Alberta with the new technology began in 2009.



Comparing PM_{2.5} Monitoring Data



PM_{2.5} concentrations from Edmonton McIntyre (2011)