

# Calgary Region Airshed Zone (CRAZ)

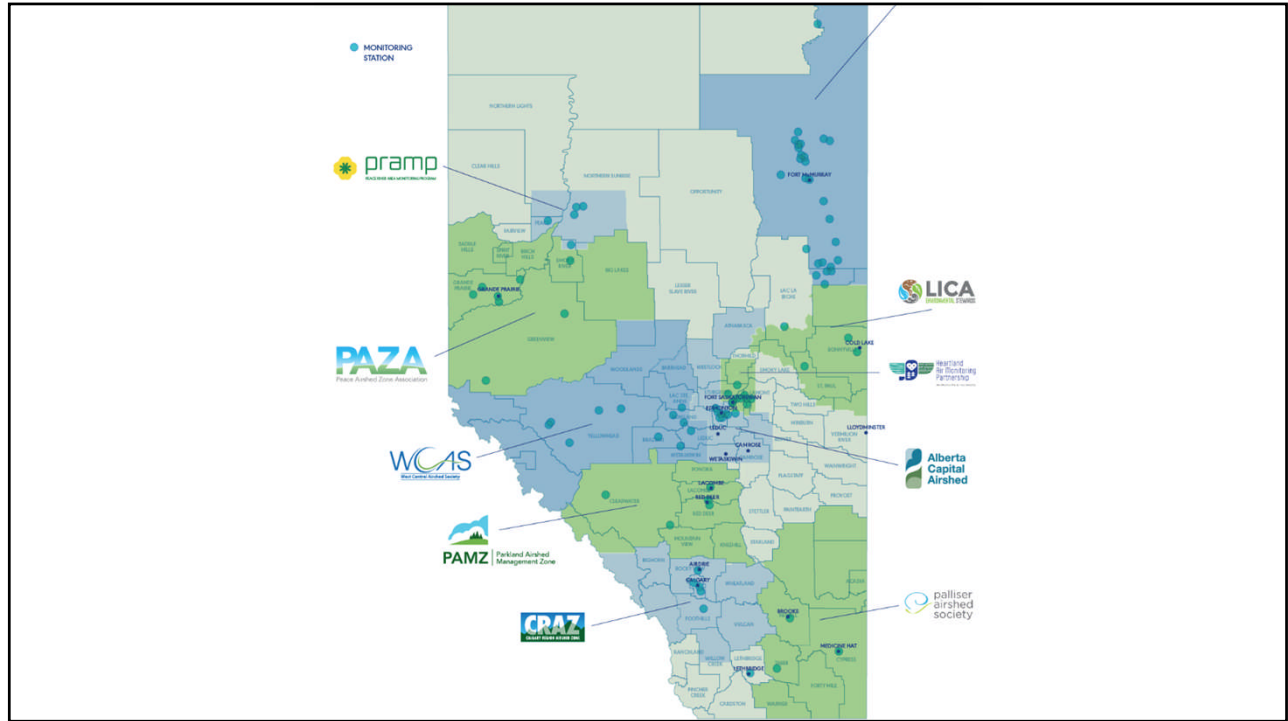
Claresholm has been a member of CRAZ for 3 years; council members might appreciate a quick refresher of what CRAZ is all about.

1

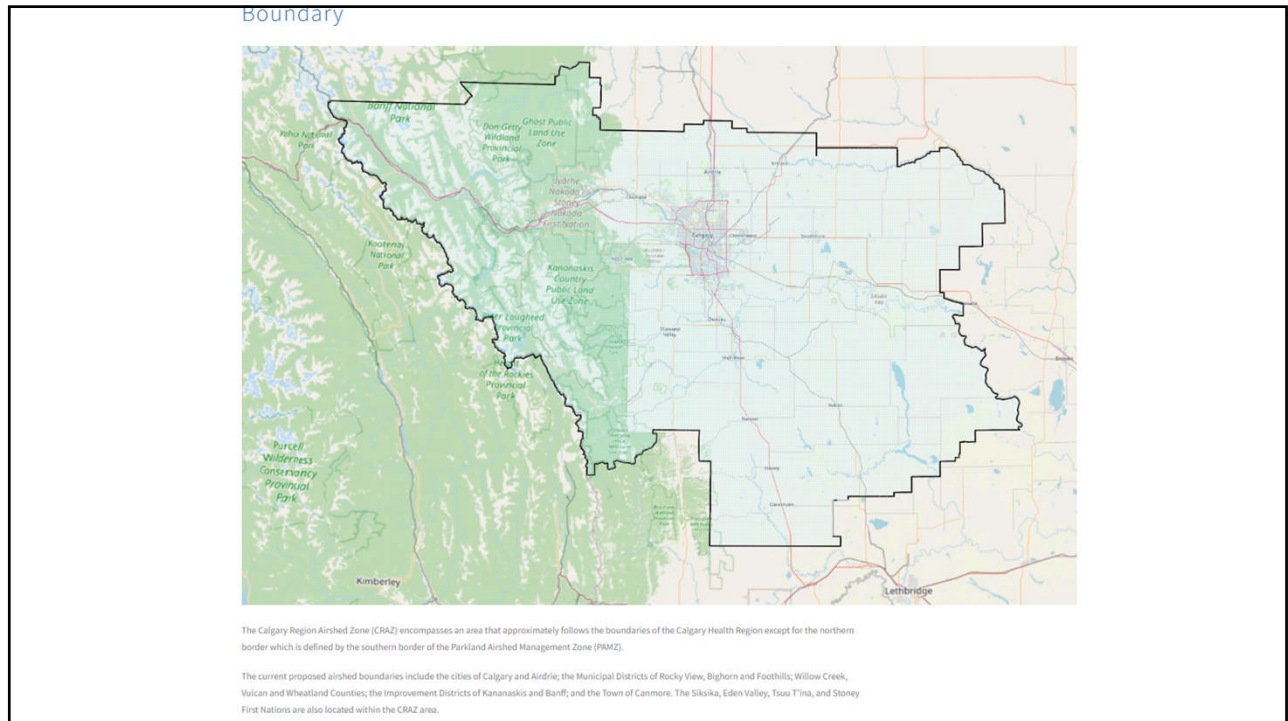
## **CRAZ Committees:**

Policy and Research  
Technical  
Air Quality Management  
Engagement  
Smoke

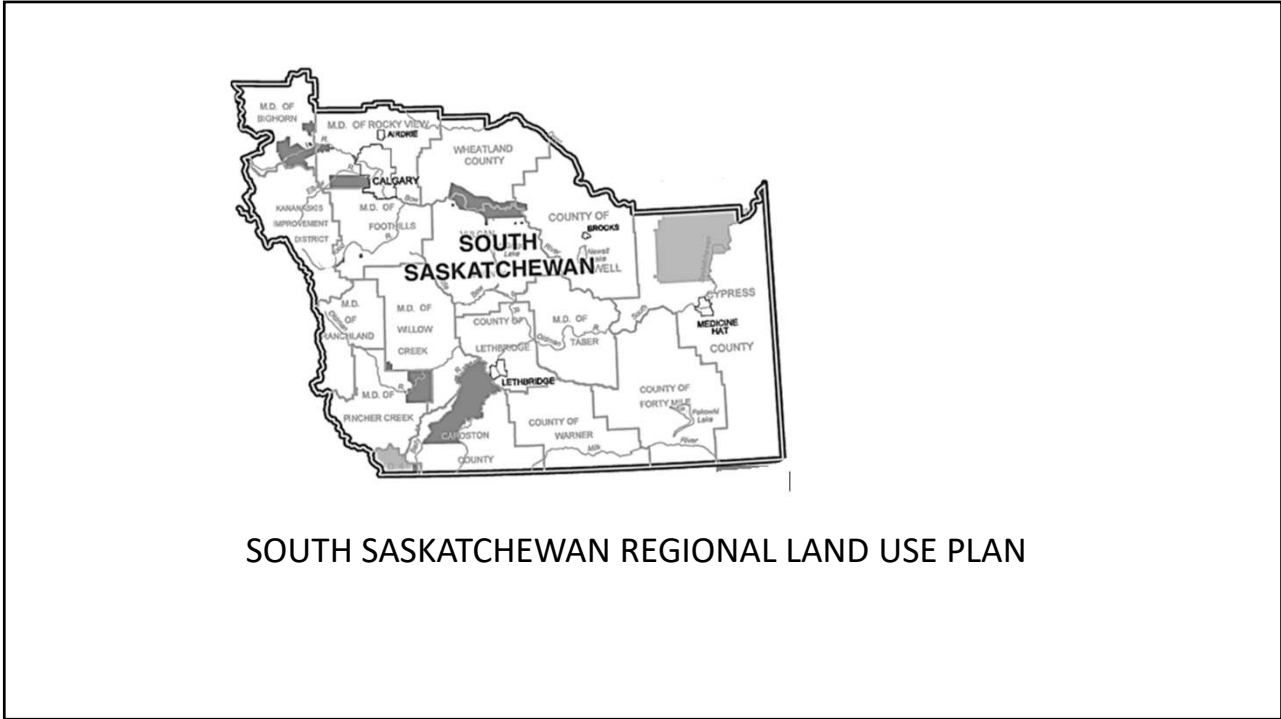
2



3



4



5



Purple Air Map

6

What does the purple air monitor measure?

Particles that are 2.5 Microns in size.  
For comparison, a human hair is about 60 microns in diameter.

What are the particles made of? They could be anything – hydrocarbons, bacteria, mold, dirt, coal dust, soot from forest fires, etc.

7

**What air pollutants are important to monitor?  
The four major ones:**

**NO<sub>2</sub>** – emitted by vehicles and industry

**SO<sub>2</sub>** – industrial processes, power plants

**O<sub>3</sub>** – ground level ozone from interactions between fossil fuel emissions interact with each other in the presence of sunlight

**PM 2.5** – particles of size 2.5 microns

8



CRAZ Portable  
Air Monitoring  
Lab or “PAML”

9

**The advantages of having the PAML set up in our community would be:**

- Gives a good baseline of air quality in our community; particularly valuable if new industries (such as coal mines in the eastern slopes) affect the future air quality
- We would have a baseline profile of the air in 2025 – 2026 to compare it to
- Can be used in promotional materials for the town if the air quality is good
- If there are problems with air quality, we can begin to address these
- The information gathered adds to the data across Alberta for use by researchers, governments and industries
- FREE! (except for power use during operation)

10