

# HOW DO THE WEST SILVER VALLEY AND CACHE VALLEY ENVIRONMENTAL EDUCATION PROGRAMS INCORPORATE AIR QUALITY RESEARCH INTO THE SCIENCE CURRICULUM?

Brett Taylor

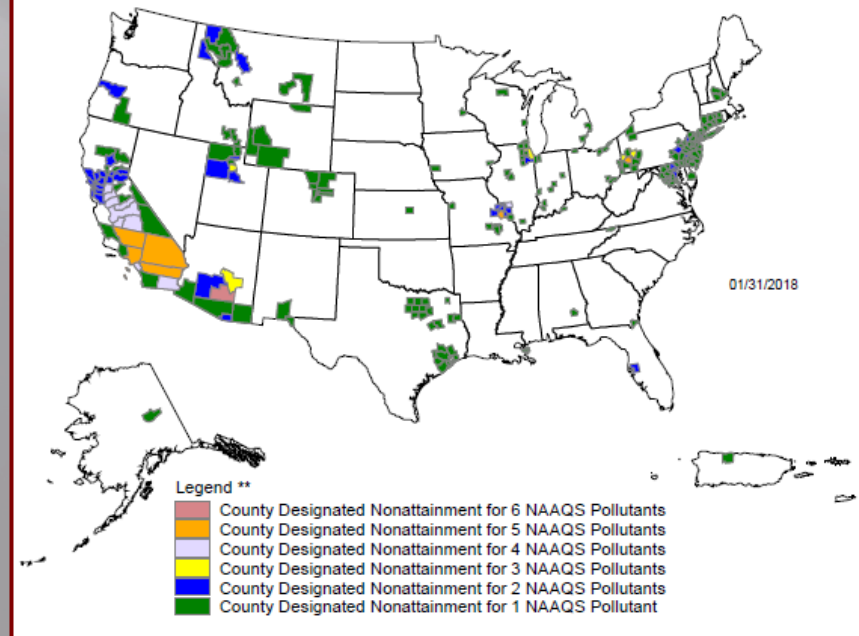
Education Coordinator, West Silver Valley Air Environmental Education Program

University Of Montana School of Public and Community Health Sciences



### Counties Designated "Nonattainment"

for Clean Air Act's National Ambient Air Quality Standards (NAAQS) \*



# WHAT IS SCIENCE?

*"Science is a way of thinking much more than it is a body of knowledge."*

*Carl Sagan*

*"The goal of science is not to open the door on everlasting wisdom, but to set a limit on everlasting error."*

**Galileo**



**Science is a *systematic process* based on observation, experiment, and modeling used to answer questions and solve problems about the natural world.**



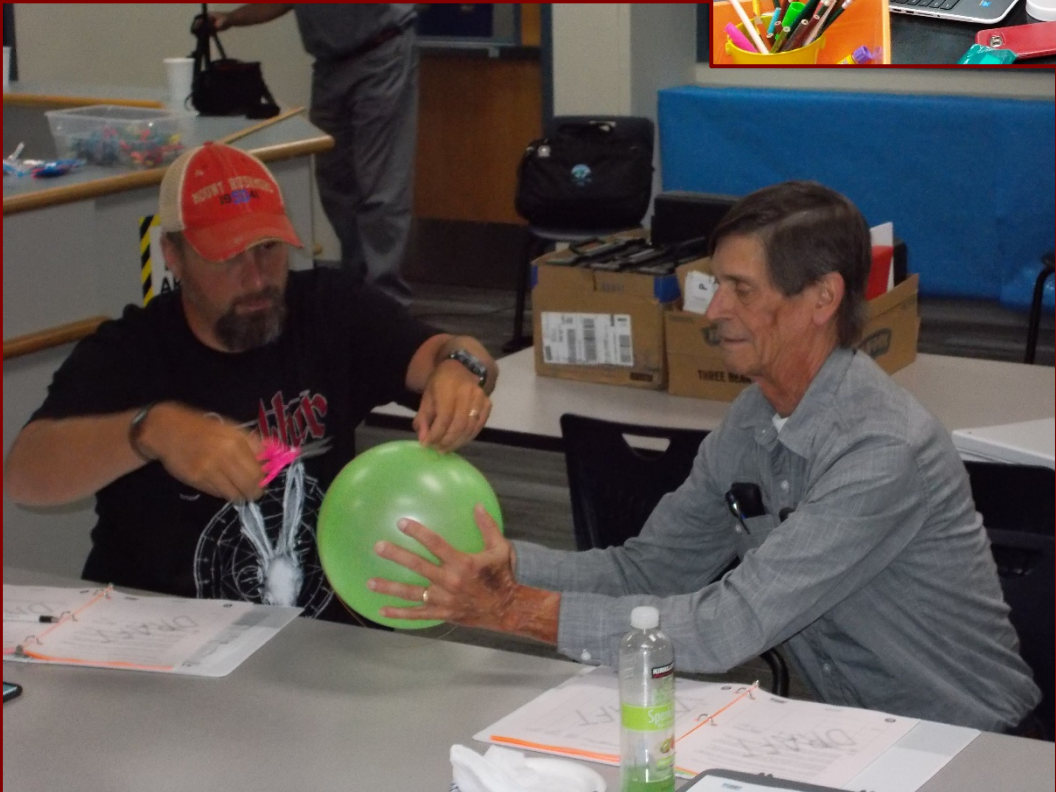
**Do we want students to learn science by doing science or by only memorizing some old dead guy's science?**



# The Air Quality Education Program Provides:

- ❑ Teacher Professional Development.
- ❑ Guided Inquiry Based Curriculum Activities.
- ❑ Air Quality Monitors and Tech Support.
- ❑ **Student Opportunities to Conduct Air Quality-Based Scientific Research, “Learning Science by doing Science!”**





# Applicable Student Knowledge:

## Use proper wood burning practices:

1. EPA certified wood stove
2. Burn smaller, hotter fires
3. Burn dry or seasoned wood
4. Have chimneys tuned and keep them clean.

## Drive less:

1. Car pool
2. Combine trips
3. Use public transportation
4. Don't let your car idle for long periods
5. Walk or ride your bike





# Education Collaboration with the National Institute of Water and Atmosphere - NIWA



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