# Montana Wildfire Season 2017

One for the record books or a sign of what lies ahead?

David Klemp State of Montana

National Association of Clean Air Agencies (NAACA) Membership Meeting September 25, 2017 | Seattle, Washington



## Overview

Air Quality Impacts Communication Strategies Additional Considerations



Rice Ridge Fire Courtesy Inciweb

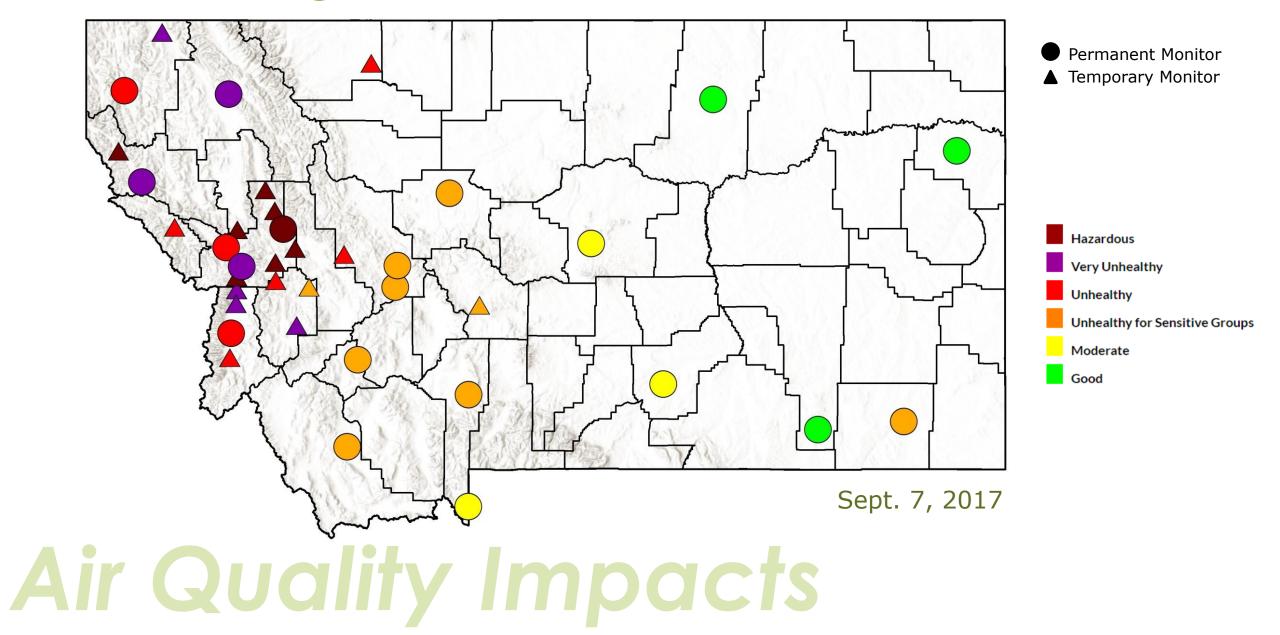
National Association of Clean Air Agencies (NAACA) Membership Meeting September 25, 2017 | Seattle, Washington



# Background

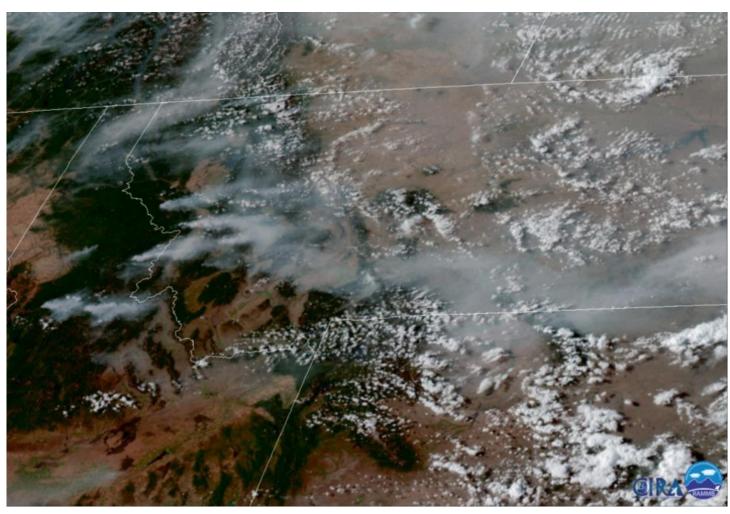
- In Montana, dry hot weather kicked off fires in July
  - Little precipitation through mid-Sept, frequent red flag warnings
- Air Quality Alerts issued almost everyday from late July through mid-Sept
- As of Sept. 18, 2017
  - 1,750 fires in Montana
  - Burning 1,299,612 acres.
  - 45 large fires remain active

# Monitoring



### Smoke Impacts

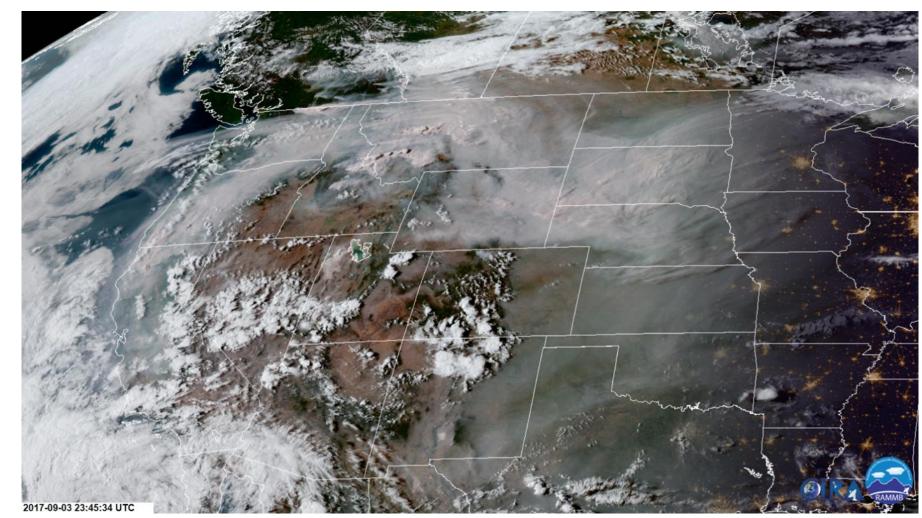
August 18, 2017



Source: CIRA and NOAA. Disclaimer - These data are preliminary and not operational

### **Smoke Impacts**

September 3, 2017



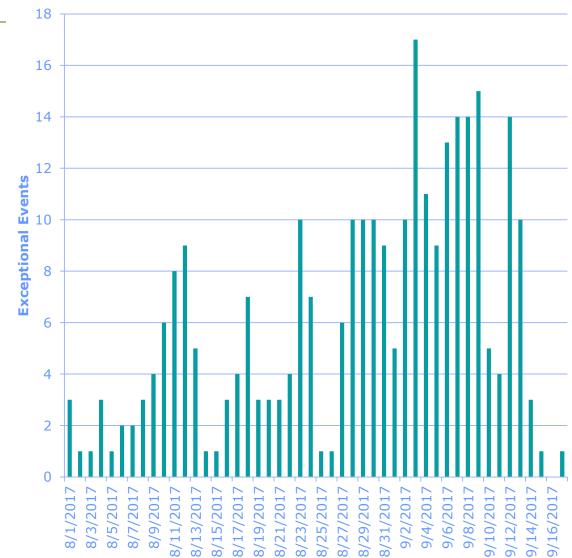
Source: CIRA and NOAA. Disclaimer - These data are preliminary and not operational

# Monitoring

- 296 Exceptional Events

   43 in Seeley Lake
- 17 monitored locations above NAAQS on Sept. 3rd)
- Highest Values:
  - 1-hr: 994.6 µg/m<sup>3</sup> (max range of monitor!)
  - 24-hr: 671 μg/m<sup>3</sup>







## Seeley Lake

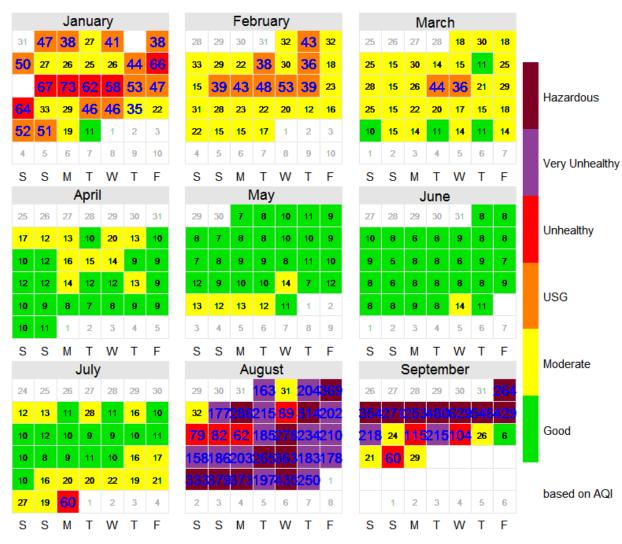
- 18 days where 24-hr average Hazardous
- 17 days where 24-hr average Very Unhealthy
- 35 consecutive days 24-hr average
   >=Unhealthy

**Quality-mpacts** 

# Seeley Lake

 A community experiencing chronic exposure to smoke

#### Seeley - Elementary School - 2017



Daily PM<sub>2.5</sub> averages (µg m<sup>-3</sup>)

## **DEQ Efforts**

### Air Quality Meteorologist Led Collaborative Effort Multiple Agencies (federal, state, & local) Daily Smoke Forecasts Featured Regularly in Media





# Mid-Season Adjustment

- Air Quality issue became public health
   issue
- Message was not being heard
  - Air Quality stepped back
  - $_{\odot}\,$  Health Department stepped up
  - Message transitioned to "health impacts/recommendations" not air quality

# **Communication Strategy**

Smoke Forecasting is NOT Smoke Management

Recognize when media/others become focused on the news instead of the message If AQB fills the space there is no room for others What about communication with other states? There is NEVER enough communication

# **Additional Considerations**

# The Human Element

Cause of fire is mismanagement of public lands

Other regulatory programs attacked (wood-stoves, carbon)

We have a short memory

# Additional Considerations

Image courtesy of NBC Montana

# Questions?

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