



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

Title: Multiyear Time Plot of Air Quality Data  
Student Sheets

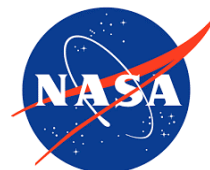
The time plot below shows PM 2.5 data for Umatilla County in Eastern Oregon from 2000-2021 from the United States Environmental Protection Agency (EPA). The second time plot shows PM 2.5 data for Buffalo, New York and has a very different pattern from the first tile plot.

Identify data or patterns that you think are important to understanding the air quality for both areas. Make a claim supported by evidence and your reasoning for this collection of data for each plot.

**Steps:**

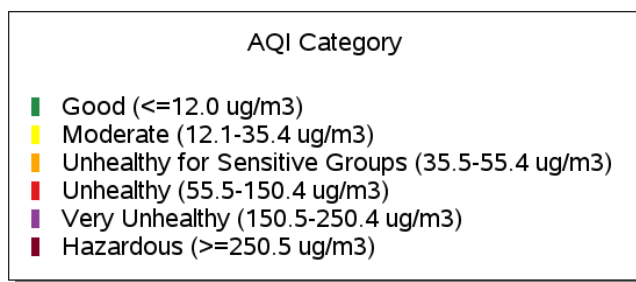
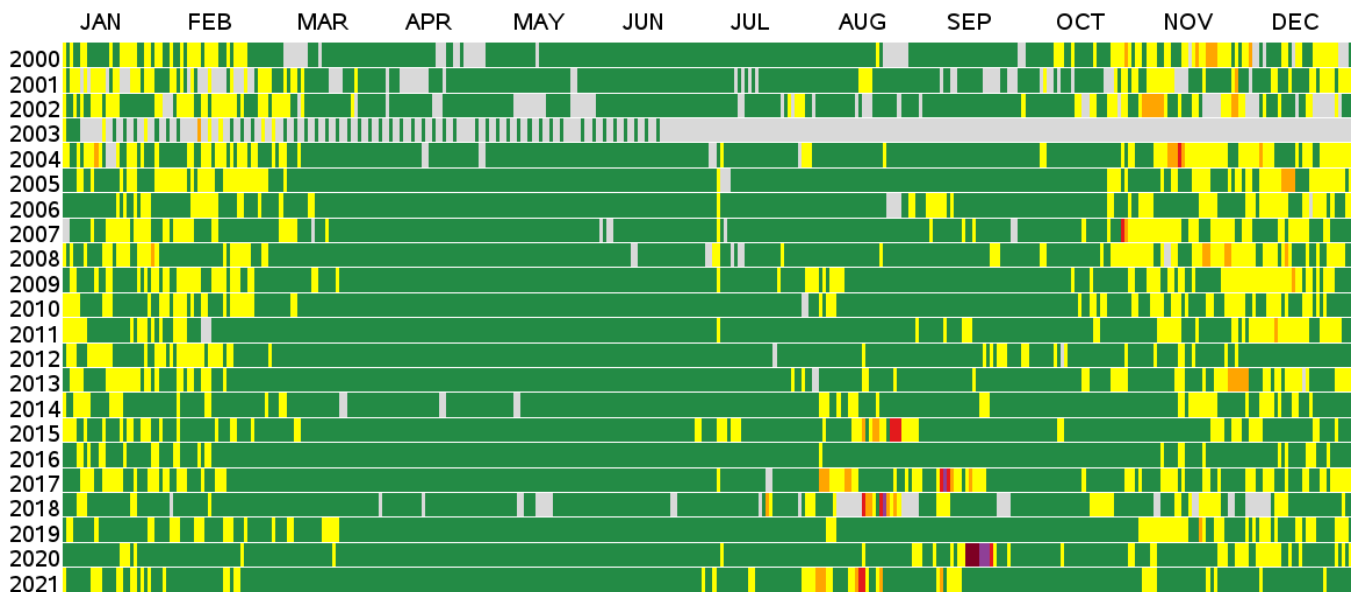
1. Check with your instructor on how to submit your answers.
2. Study the tile plot for Oregon on page 2 and identify:
  - a. The month and year with hazardous air quality.
  - b. Months that regularly have good air quality.
  - c. Months that have more potential for poor air quality.
3. Make a claim based on the data from Umatilla County, Oregon.
  - a. What is your evidence?
  - b. What makes this good evidence?
  - c. Fill in the Claims-Evidence-Reasoning table.

Claim	Evidence	Reason this is good evidence



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### PM2.5 Daily AQI Values, 2000 to 2021 Umatilla County, OR



Source: U.S. EPA AirData <<https://www.epa.gov/air-data>>

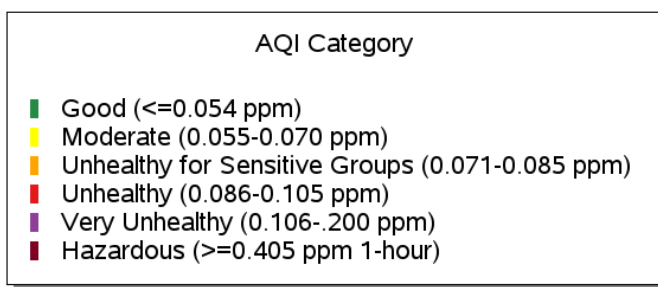
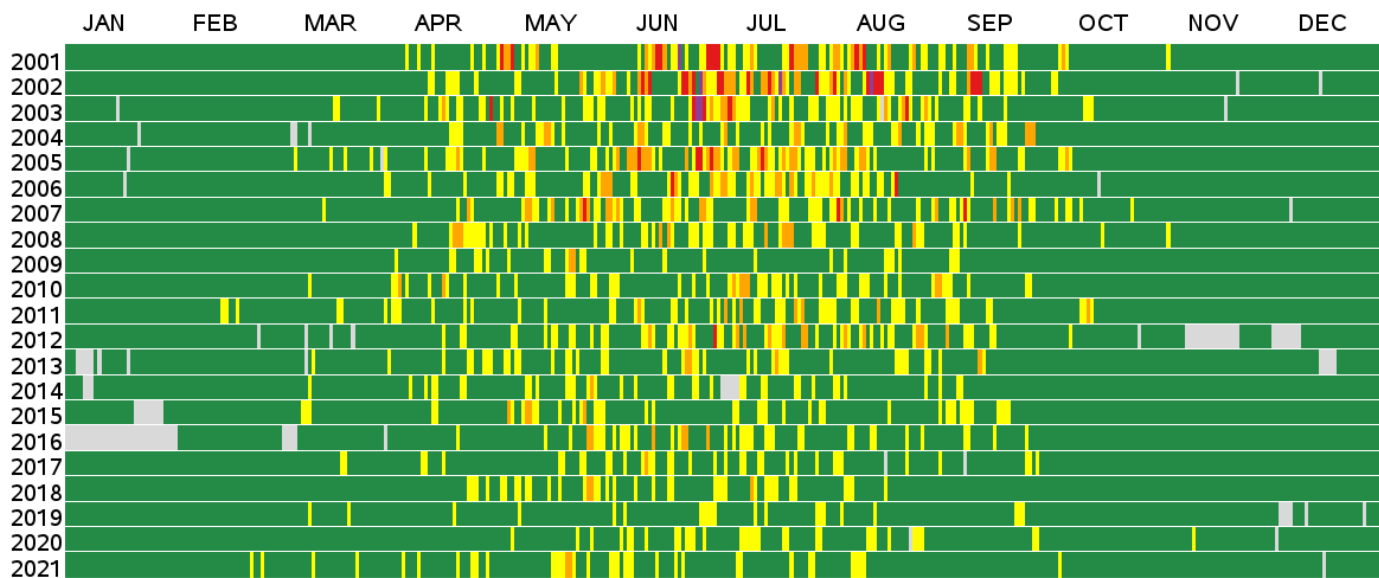
Generated: July 25, 2022

PM 2.5 data for Umatilla County in Eastern Oregon 2000-2021. Source: [US EPA AirData](https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Time%20plot2.png) | <https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Time%20plot2.png>



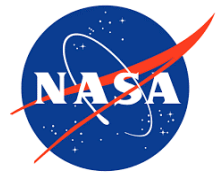
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### Ozone Daily AQI Values, 2001 to 2021 Buffalo-Cheektowaga-Niagara Falls, NY



Source: U.S. EPA AirData <<https://www.epa.gov/air-data>>  
Generated: July 25, 2022

PM 2.5 data for Buffalo-Cheektowaga-Niagara Falls, NY 2001-2021. Source: [US EPA AirData](https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Time%20plot2_NY.png) | [https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Time%20plot2\\_NY.png](https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Time%20plot2_NY.png)



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4. Study the tile plot from Buffalo and make a claim based on the data from Buffalo, New York.
  - a. What is your evidence?
  - b. What makes this good evidence?
  - c. Fill in the Claims-Evidence-Reasoning table.

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Claim	Evidence	Reason this is good evidence