

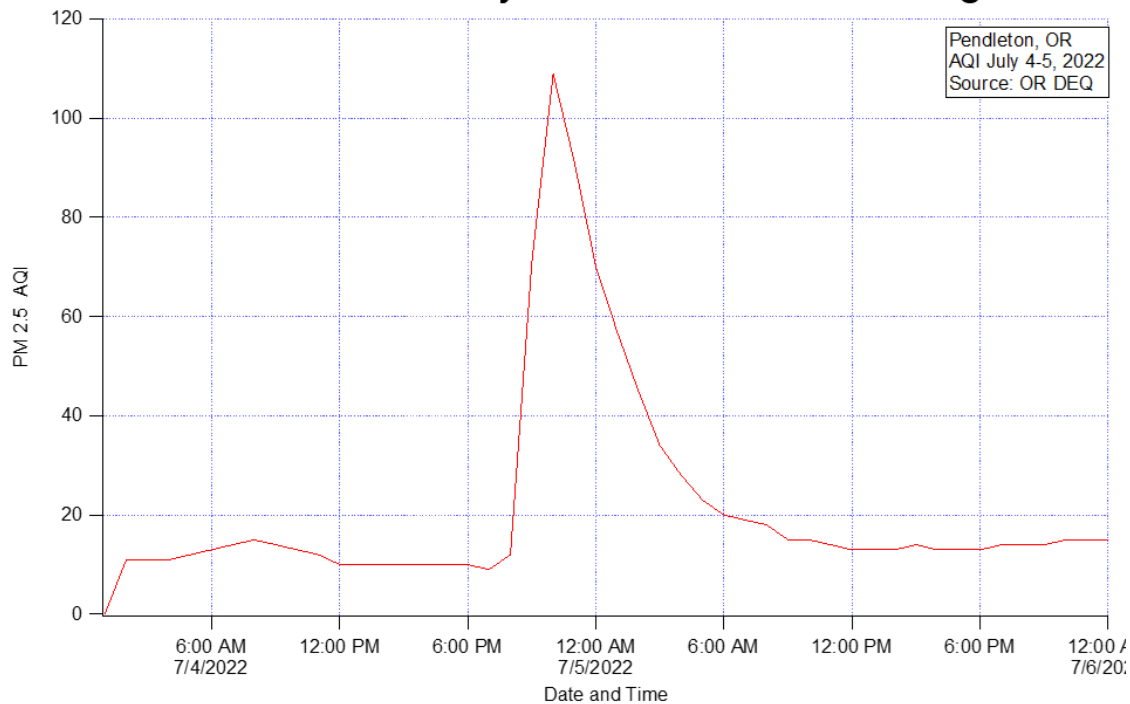


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

Title: Do Fireworks Create Air Pollution?

Student Sheets

### PM 2.5 Air Quality Index, Pendleton, Oregon



PM 2.5 of Pendleton, Oregon. Source: Oregon Department of Environmental Quality | [https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Oregon\\_final\\_0.png](https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Oregon_final_0.png)



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

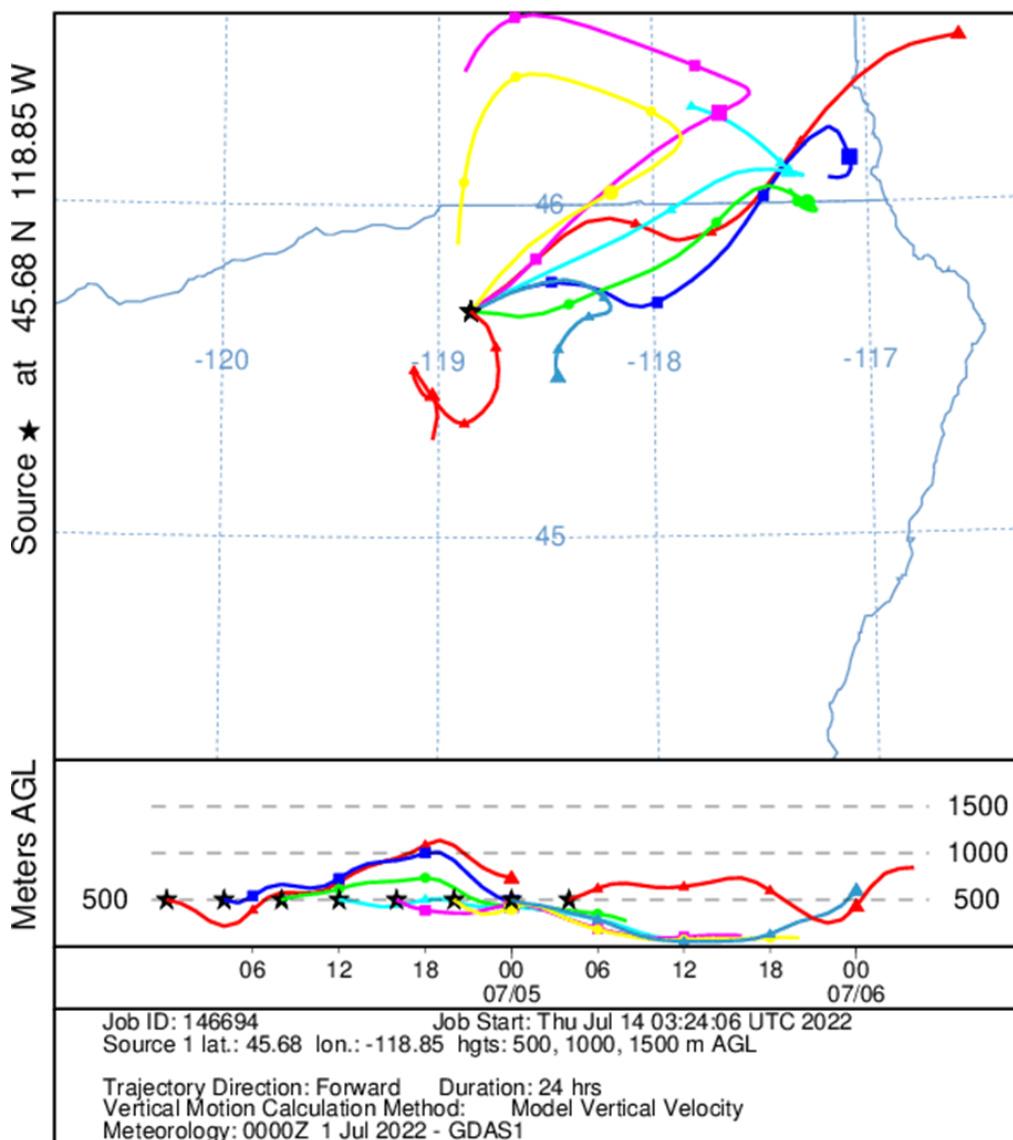
1. Check with your instructor on how to submit your answers.

Question	Answer
2. What is the highest value reached for PM 2.5?	
3. Approximately what time was the highest value reached?	



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

NOAA HYSPLIT MODEL  
Forward trajectories starting at 0000 UTC 04 Jul 22  
GDAS Meteorological Data



HYSPLIT model of winds FROM Pendleton, Oregon. Source: NOAA | [https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Picture3\\_5.png](https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Picture3_5.png)



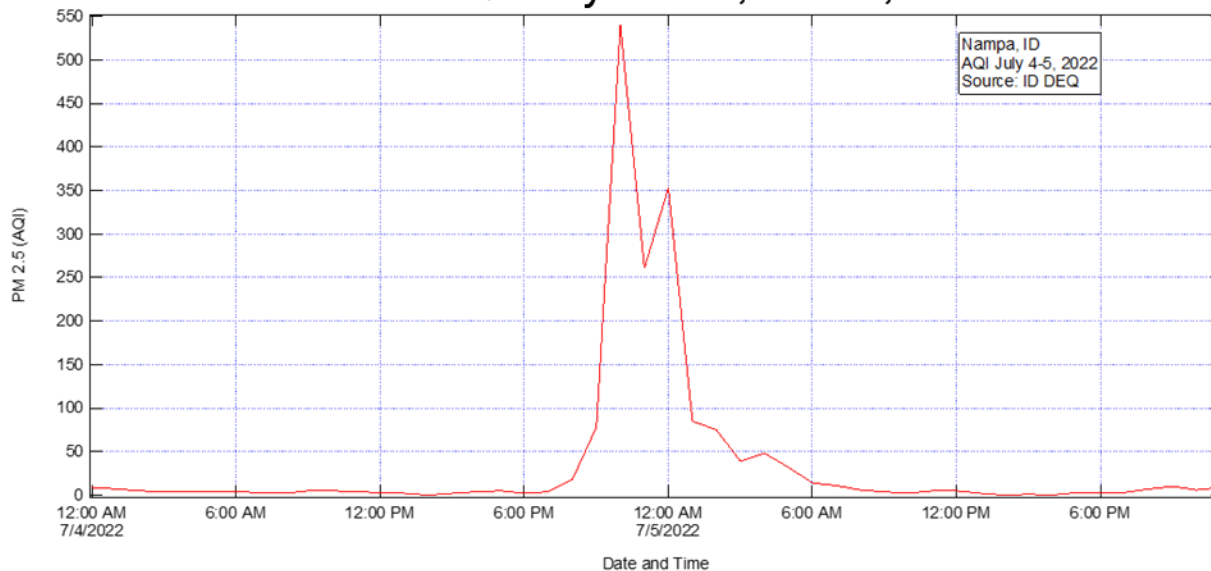
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

Question	Answer
4. What general direction was the wind moving from Pendleton, Oregon on July 4 <sup>th</sup> (look at the light blue, pink and yellow lines on the map)?	
5. Which state(s) were in line to encounter PM 2.5 from Pendleton fireworks?	



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

## PM 2.5 Air Quality Index, Boise, Idaho



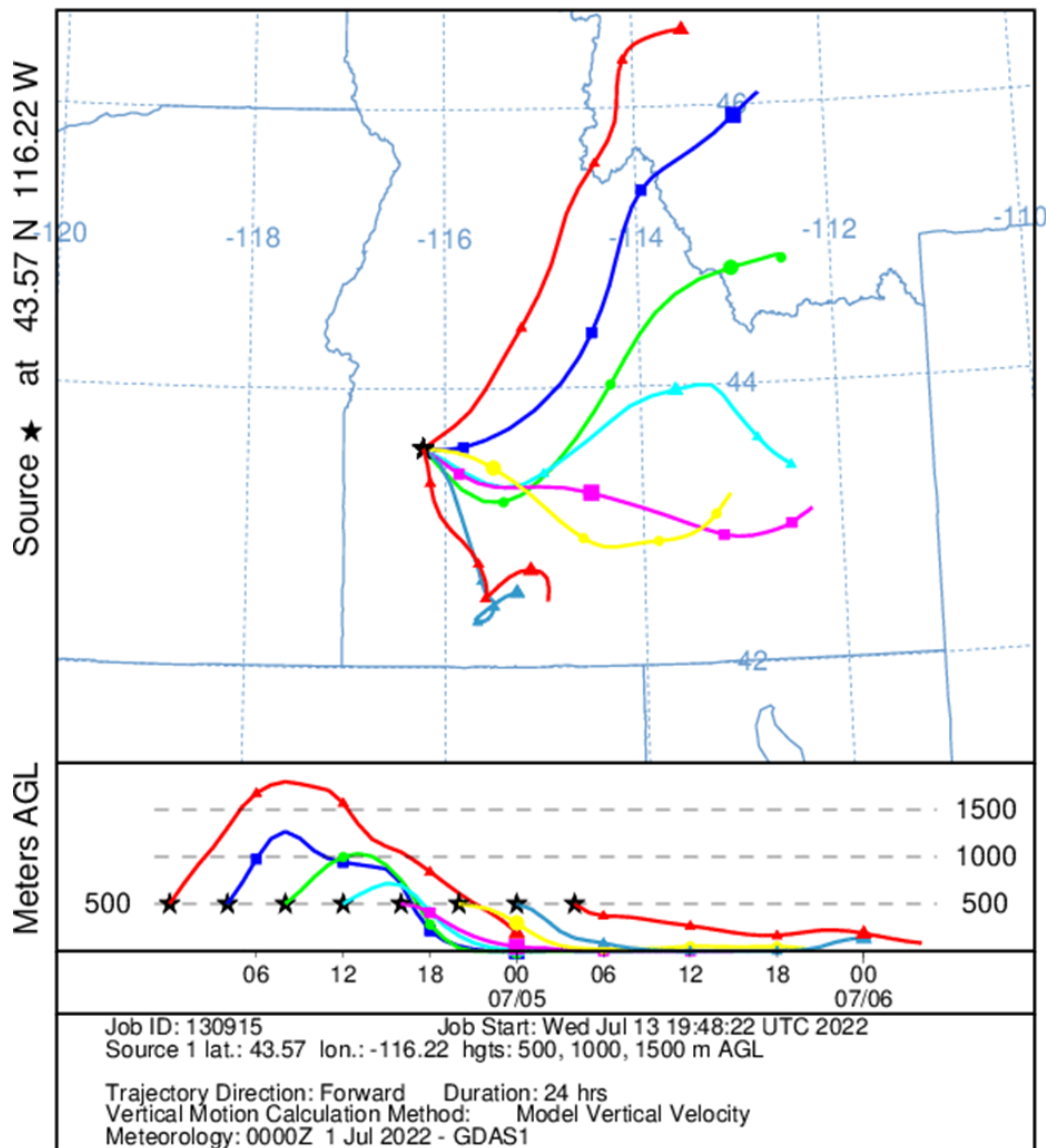
PM 2.5 of Boise, Idaho. Source: Idaho Department of Environmental Quality | [https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Idaho\\_final\\_0.png](https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/Idaho_final_0.png)

Question	Answer
6. What is the highest value reached for PM 2.5?	
7. Approximately what time was the highest value reached?	



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

NOAA HYSPLIT MODEL  
Forward trajectories starting at 0000 UTC 04 Jul 22  
GDAS Meteorological Data



HYSPLIT model of winds FROM Boise, Idaho. Source: NOAA |  
<https://mynasadata.larc.nasa.gov/sites/default/files/inline-images/HYSPLIT%20Idaho.png>



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

Question	Answer
8. What general direction was the wind moving from Boise, Idaho on July 4 <sup>th</sup> (Look at the green, light blue and pink lines on the map)?	
9. Which state(s) were most likely in line to encounter PM 2.5 from Boise fireworks?	