



# Air Pollution: What's the Solution?

Student Worksheet :  
*What are the sources of PM?*

Name: \_\_\_\_\_

Group: \_\_\_\_\_

## What are the sources of PM?

### **PART 1: TYPES OF AIR POLLUTANTS**

Review the information in the Specific Source Type list and/or the EPA's Six Common Air Pollutants web site to answer the following questions:

1. List three examples of source.

Source Type	Examples
<b>Factories</b>	1. 2. 3.
<b>Road Vehicles</b>	1. 2. 3.
<b>Off-road Vehicles</b>	1. 2. 3.
<b>Miscellaneous</b>	1. 2. 3.

## PART 2: POLLUTION SOURCES

1. Select your state from the **map** to view the corresponding air pollution data (NOTE: it may take a moment to load the first time you click).
2. Click through the site and look up the amount of PM<sub>10</sub> and PM<sub>2.5</sub> in your state to complete the table and answer the following questions (move your mouse over the colored column to view the corresponding percentage):

Source Type	STATE _____	
	POLLUTANTS	
	PM 10 (%)	PM 2.5 (%)
Power Plants:		
Fuel Burning:		
Factories:		
Road Vehicles:		
Off-Road Vehicles:		
Miscellaneous:		
Totals:		



## **Appendix A: Specific Source Type Examples**

### **Power Plants:**

- electricity generating plants (turbines)

### **Fuel Burning:**

- boilers or industrial furnaces
- fireplaces, woodstoves
- residential furnaces
- incinerators

### **Factories:**

- food or agricultural processing
- chemical manufacturing
- petroleum refining
- metal, wood, paint, plastics, paper production

### **Road Vehicles:**

- passenger vehicles (all sizes)
- large and medium trucks
- motorcycles

### **Off-Road Vehicles:**

- airplanes
- trains
- power boats
- bulldozers
- tractors
- harvesters
- forklifts
- snowmobiles
- jet skis
- lawnmowers, leaf blowers, snow blowers

### **Miscellaneous:**

- farming (planting, fertilizing, tilling, harvesting, burning)
- forest fires
- repair shop
- hospitals