

## **APPENDIX B: Supplementary Information**

Figure B-1: 2012 Annual PM<sub>2.5</sub> Design Values  
Figures B-2 to B-14: Emissions Information for  
PM<sub>2.5</sub> and Precursors

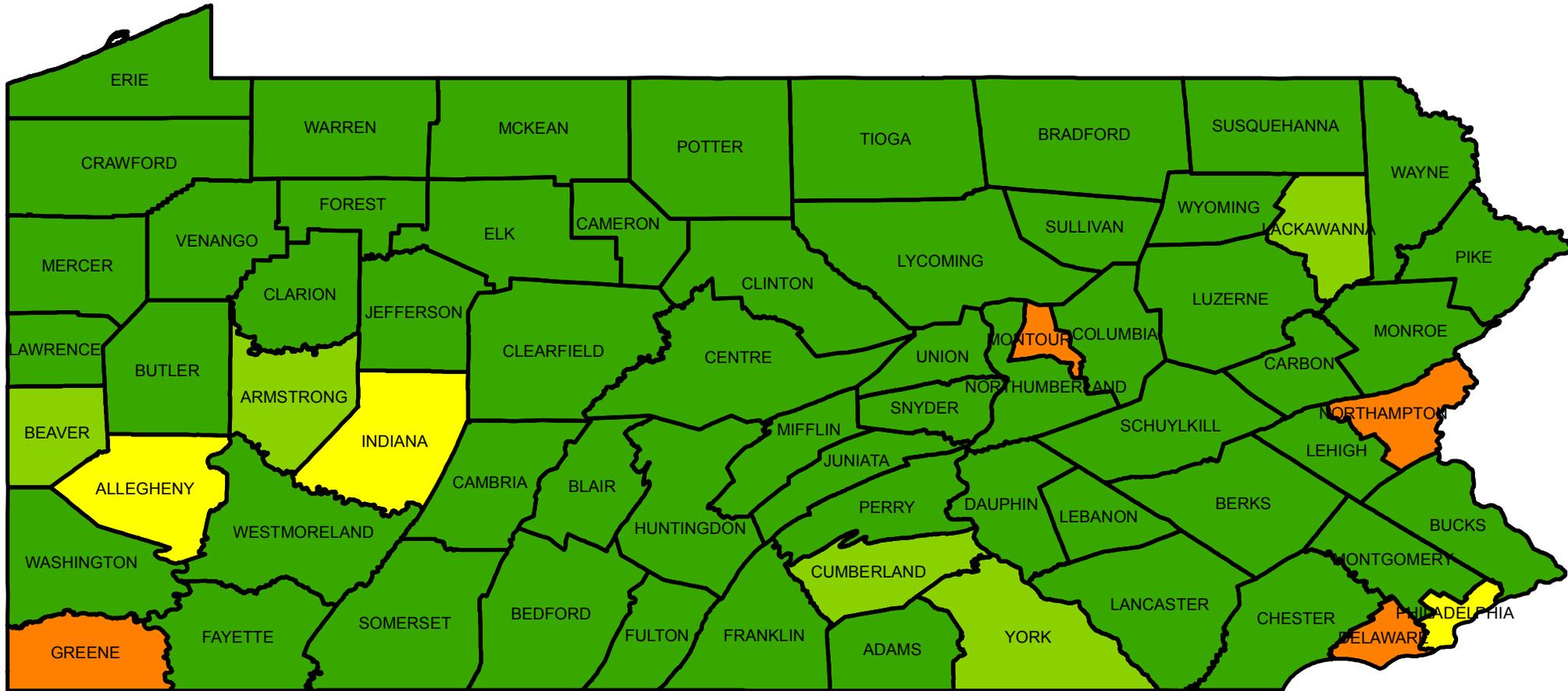
- B-2: PM<sub>2.5</sub> Point Source Density
- B-3: SO<sub>2</sub> Point Source Density
- B-4: NO<sub>x</sub> Point Source Density
- B-5: VOC Point Source Density
- B-6: Direct PM<sub>2.5</sub> Area Source Density
- B-7: SO<sub>2</sub> Area Source Density
- B-8: NO<sub>x</sub> Area Source Density
- B-9: VOC Area Source Density
- B-10: NH<sub>3</sub> Area Source Density
- B-11: PM<sub>2.5</sub> Point Source Emissions by Facility
- B-12: SO<sub>2</sub> Point Source Emissions by Facility
- B-13: NO<sub>x</sub> Point Source Emissions by Facility
- B-14: VOC Point Source Emissions by Facility

Figure B-15: Population Density by County  
Figure B-16: Population Growth by County  
Figure B-17: Pennsylvania Air Basins



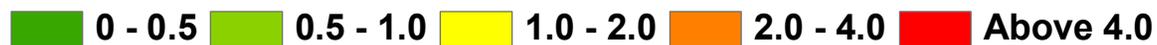
# Figure B-2 Emission Density Map by County

PM<sub>2.5</sub> Point Source Emissions



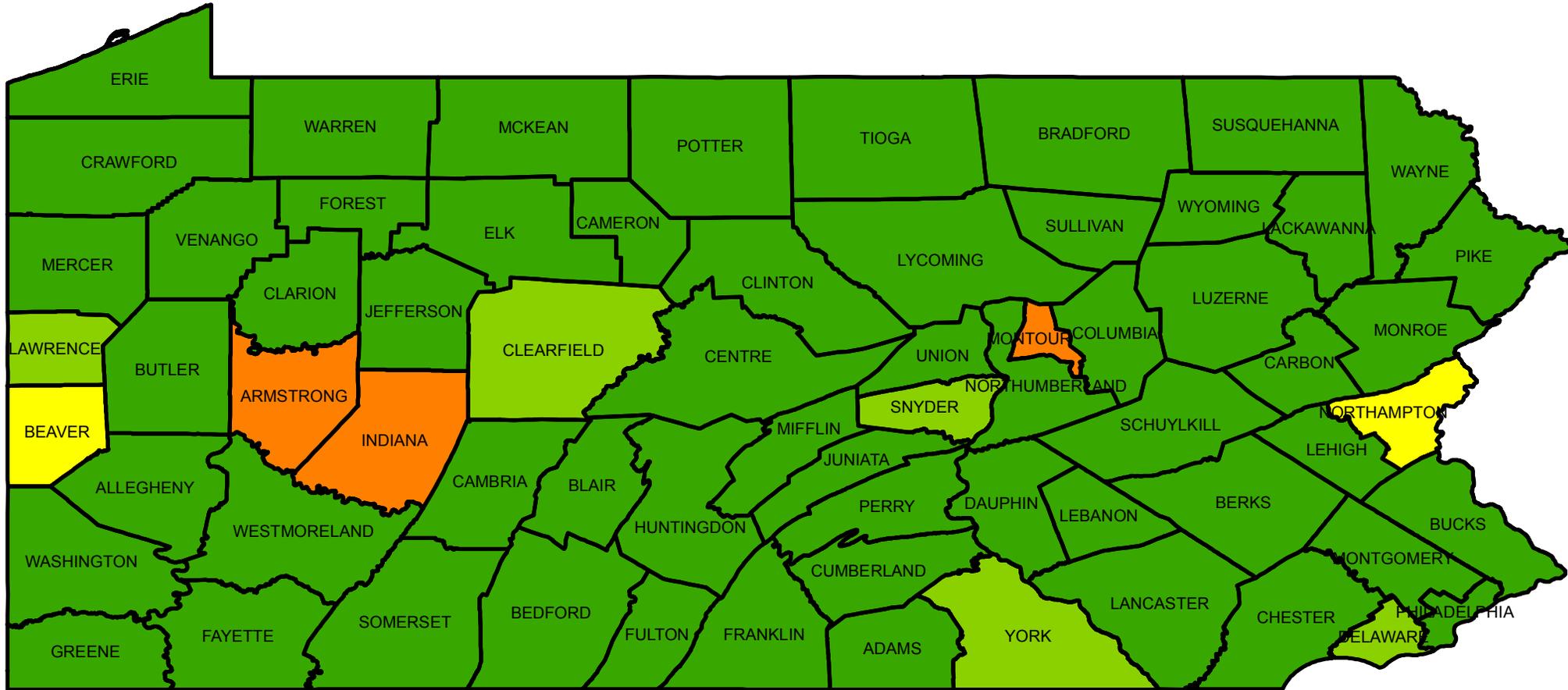
PM<sub>2.5</sub> Point Source Emissions are from the 2011 National Emissions Inventory

**PM<sub>2.5</sub> Emission Density (tons per year per square mile)**



# Figure B-3 Emission Density Map by County

SO<sub>2</sub> Point Source Emissions



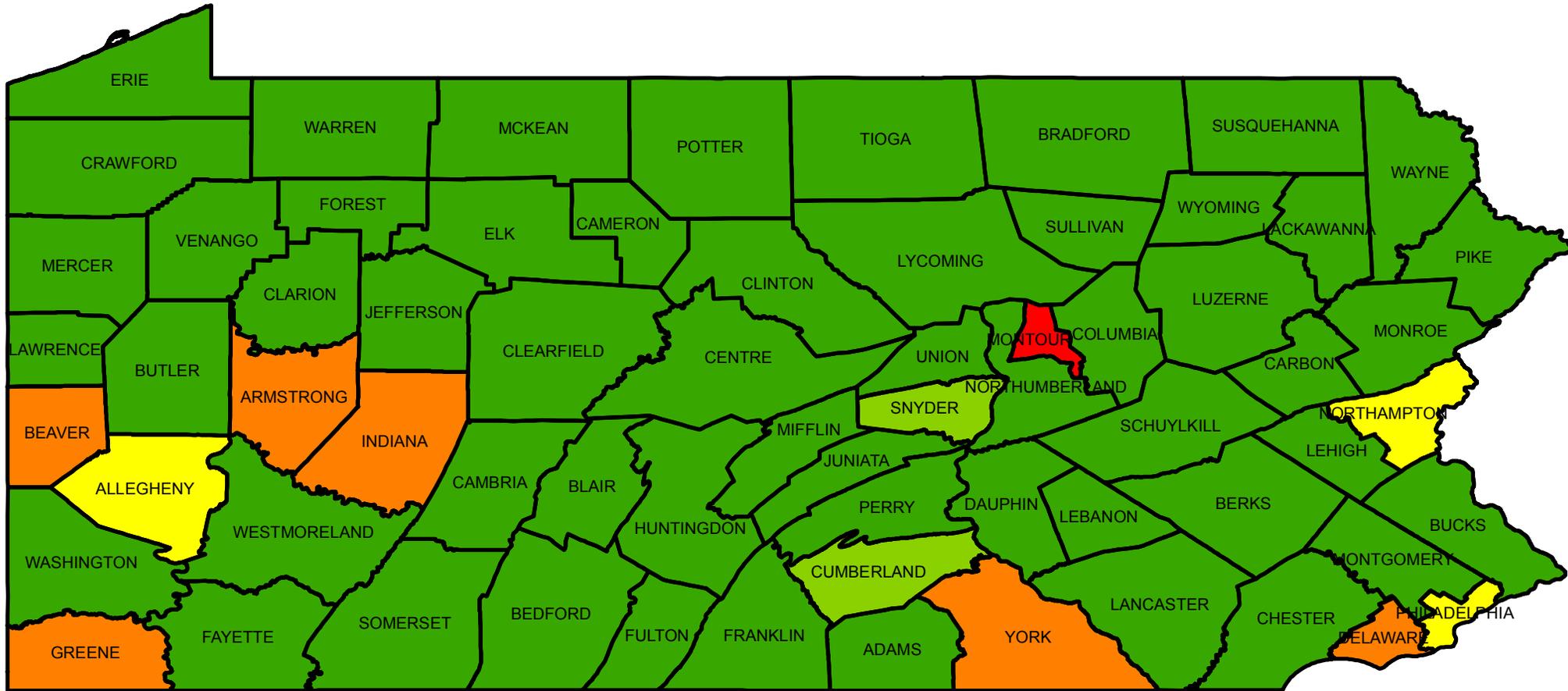
SO<sub>2</sub> Point Source Emissions are from the 2011 National Emissions Inventory

**SO<sub>2</sub> Emission Density (tons per year per square mile)**



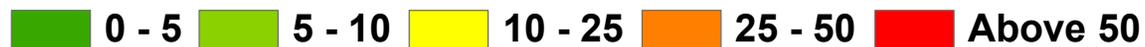
# Figure B-4 Emission Density Map by County

NO<sub>x</sub> Point Source Emissions



NO<sub>x</sub> Point Source Emissions are from the 2011 National Emissions Inventory

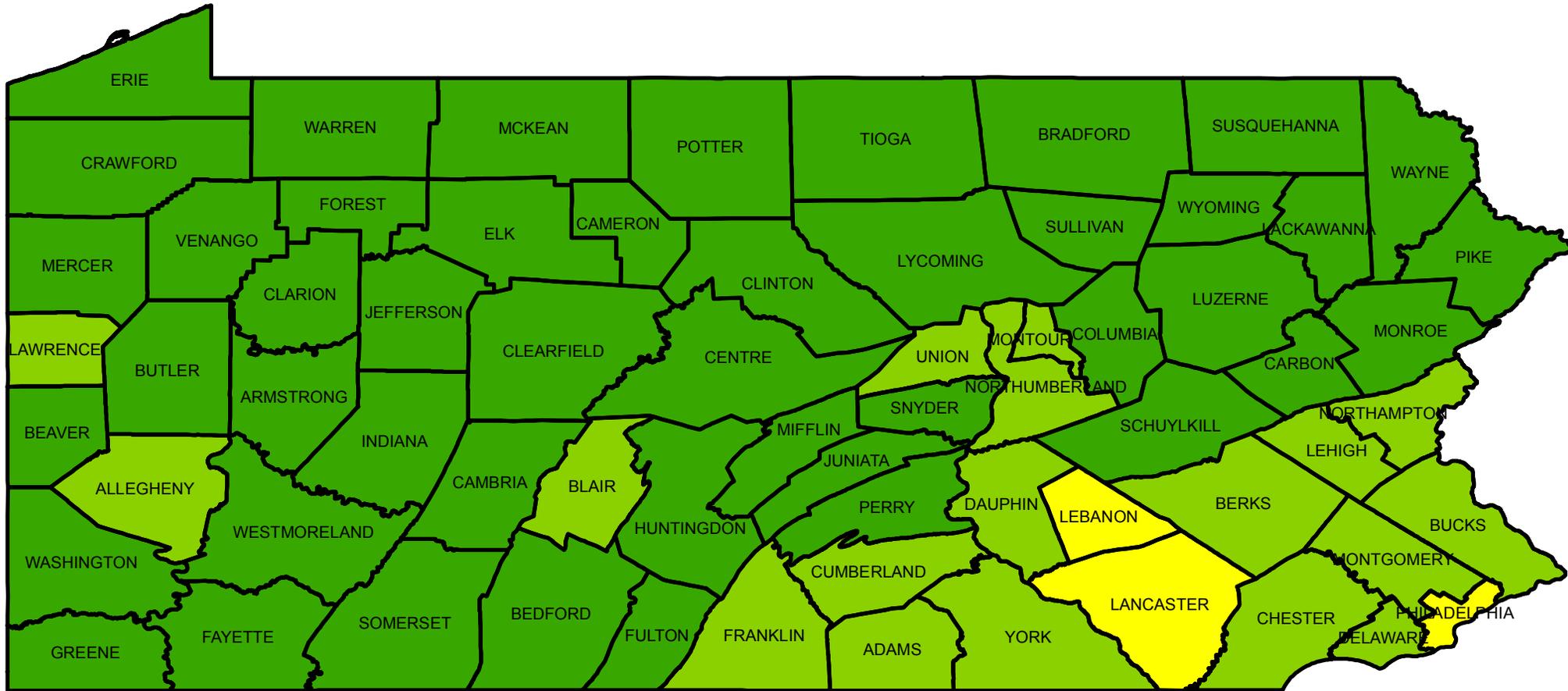
**NO<sub>x</sub> Emission Density (tons per year per square mile)**





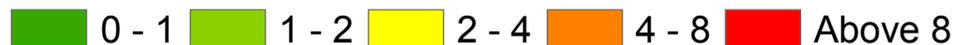
# Figure B-6 Emission Density Map by County

PM<sub>2.5</sub> Area Source Emissions



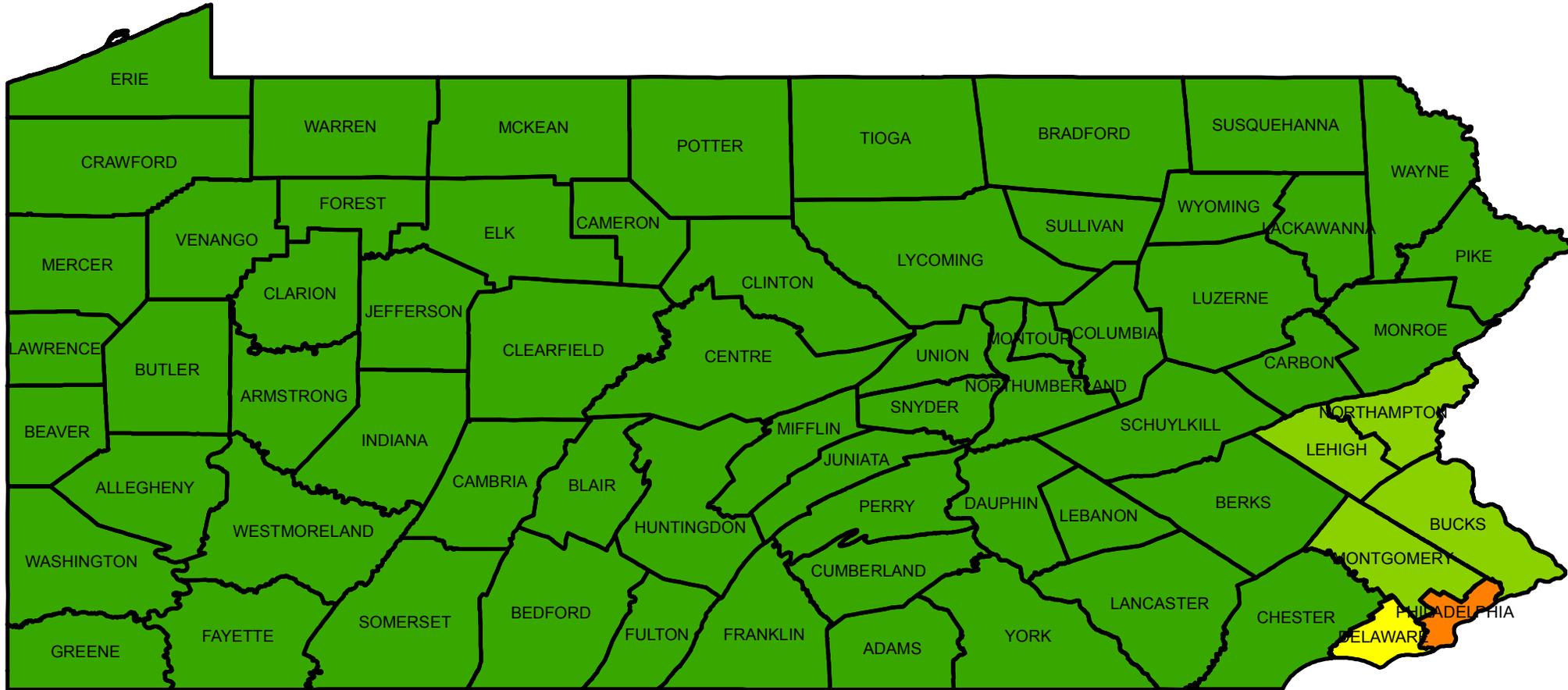
PM<sub>2.5</sub> Area Source Emissions are from the 2011 National Emissions Inventory

**PM<sub>2.5</sub> Emission Density (tons per year per square mile)**



# Figure B-7 Emission Density Map by County

SO<sub>2</sub> Area Source Emissions

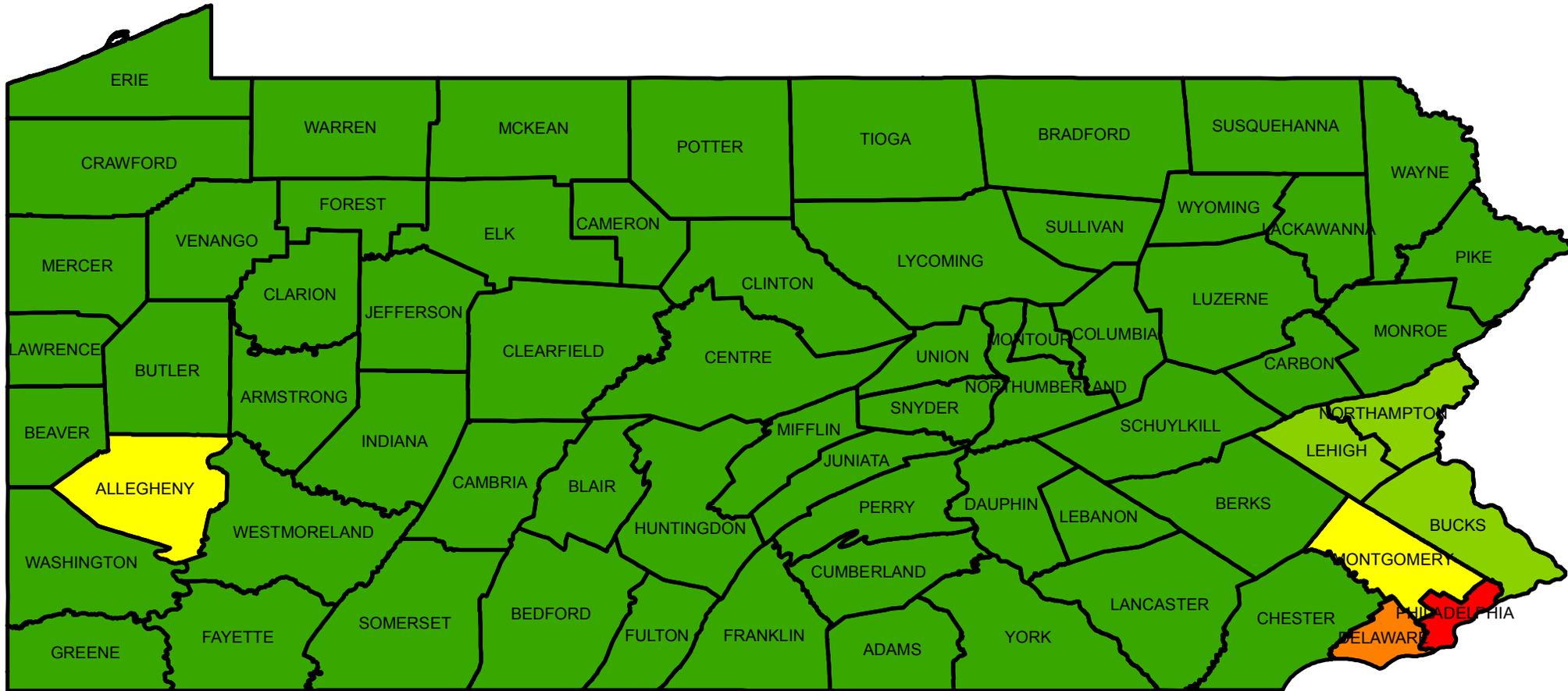


SO<sub>2</sub> Area Source Emissions are from the 2011 National Emissions Inventory



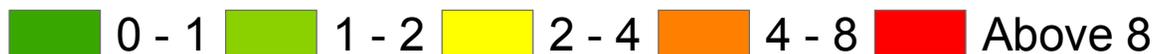
# Figure B-8 Emission Density Map by County

NO<sub>x</sub> Area Source Emissions



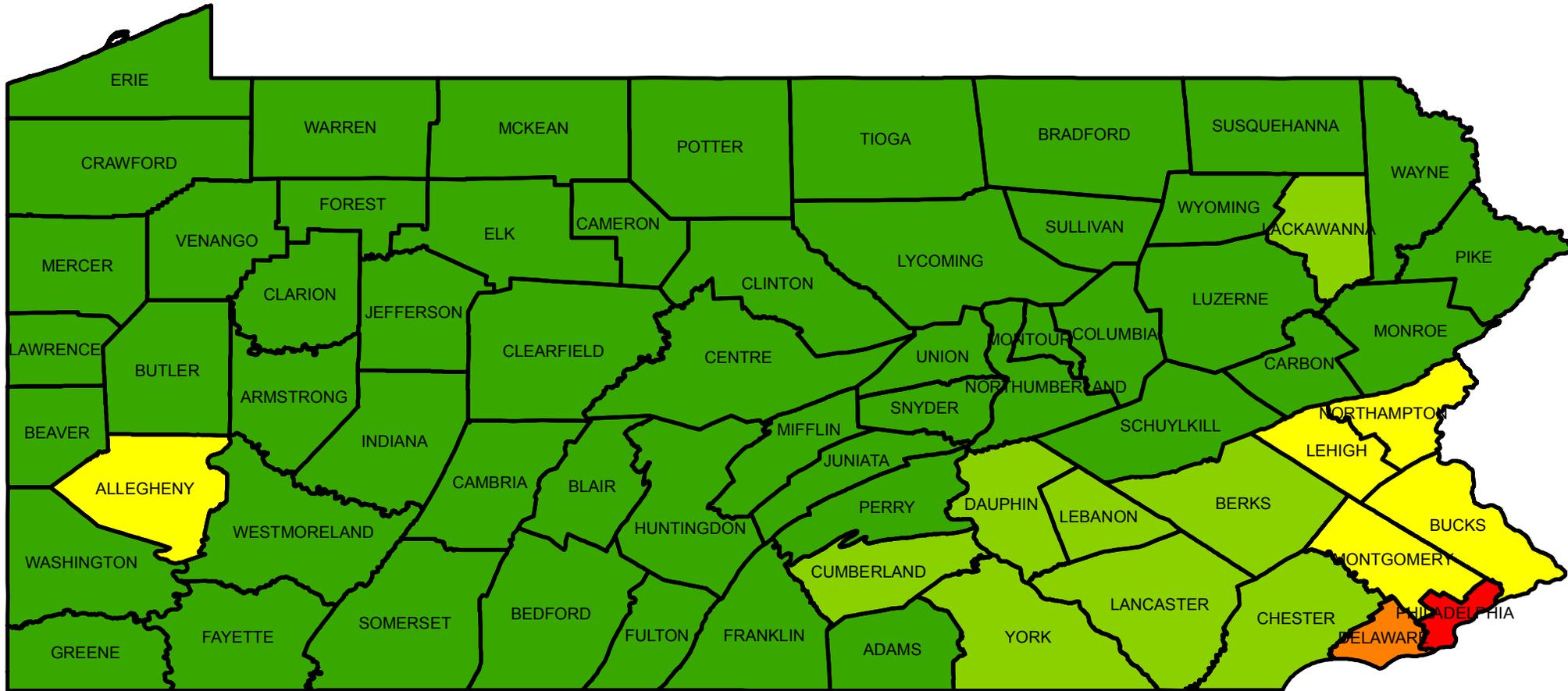
NO<sub>x</sub> Area Source Emissions are from the 2011 National Emissions Inventory

**NO<sub>x</sub> Emission Density (tons per year per square mile)**



# Figure B-9 Emission Density Map by County

VOC Area Source Emissions



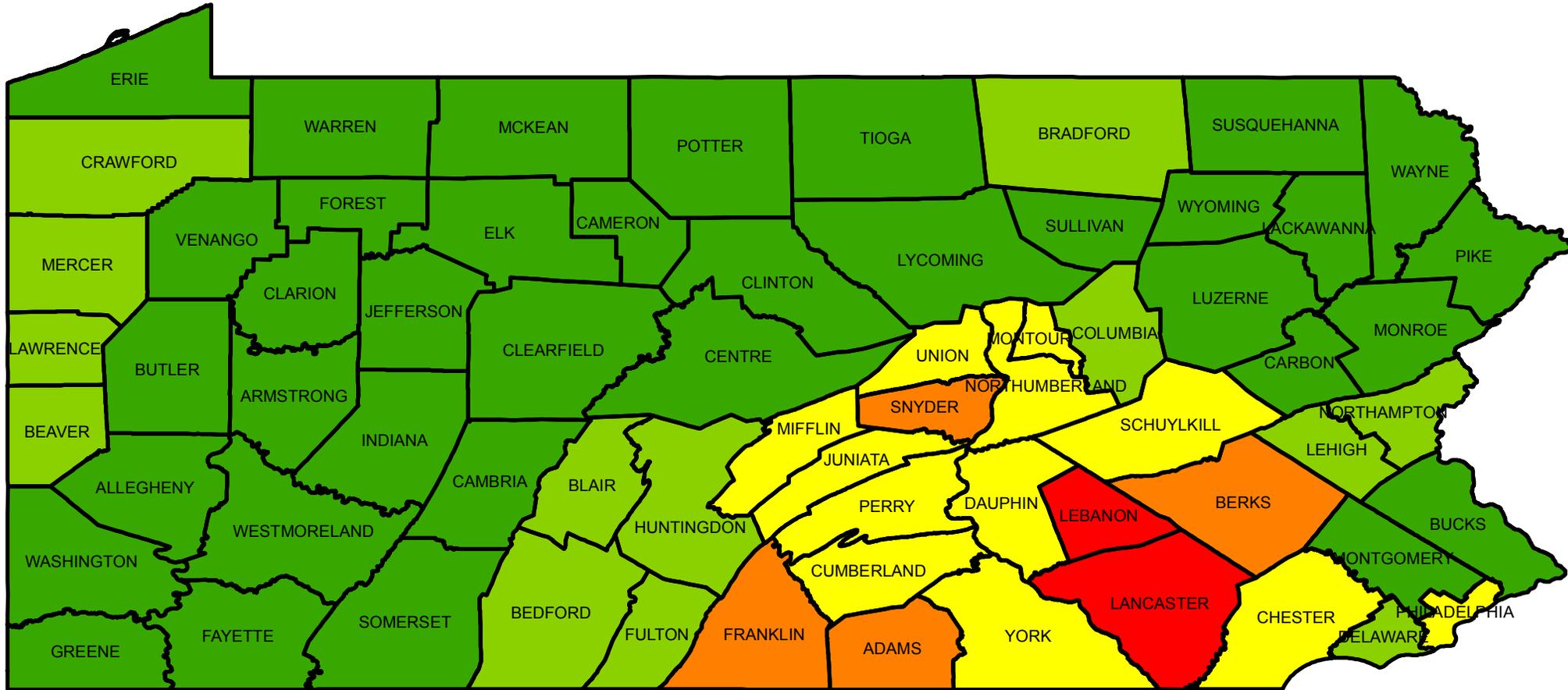
VOC Area Source Emissions are from the 2011 National Emissions Inventory

**VOC Emission Density (tons per year per square mile)**



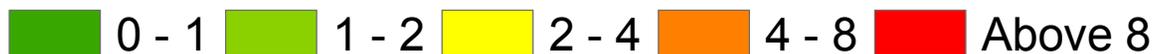
# Figure B-10 Emission Density Map by County

NH<sub>3</sub> Area Source Emissions



NH<sub>3</sub> Area Source Emissions are from the 2011 National Emissions Inventory

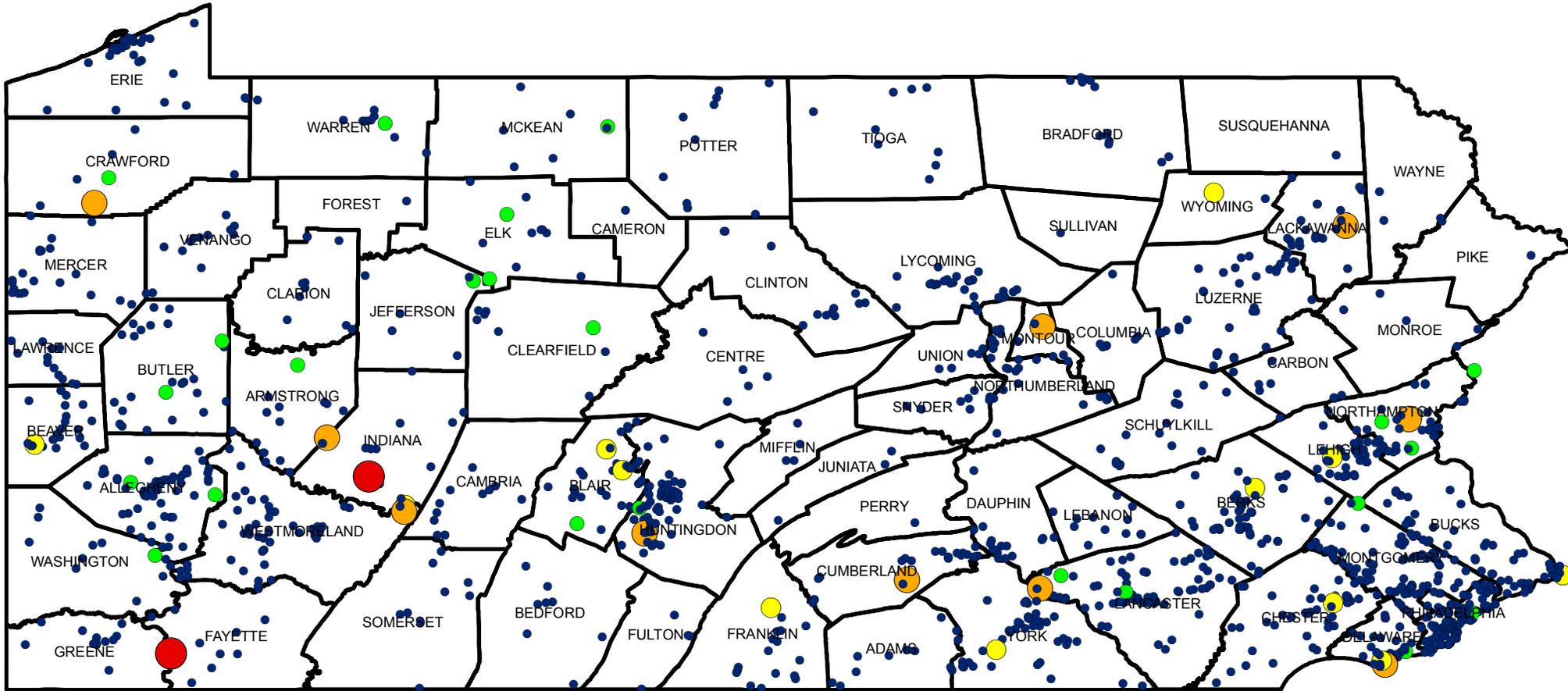
**NH<sub>3</sub> Emission Density (tons per year per square mile)**



# Figure B-11

## Point Source Emissions by Facility

PM<sub>2.5</sub> Point Source Emissions



PM<sub>2.5</sub> Point Source Emissions are from the 2011 National Emissions Inventory

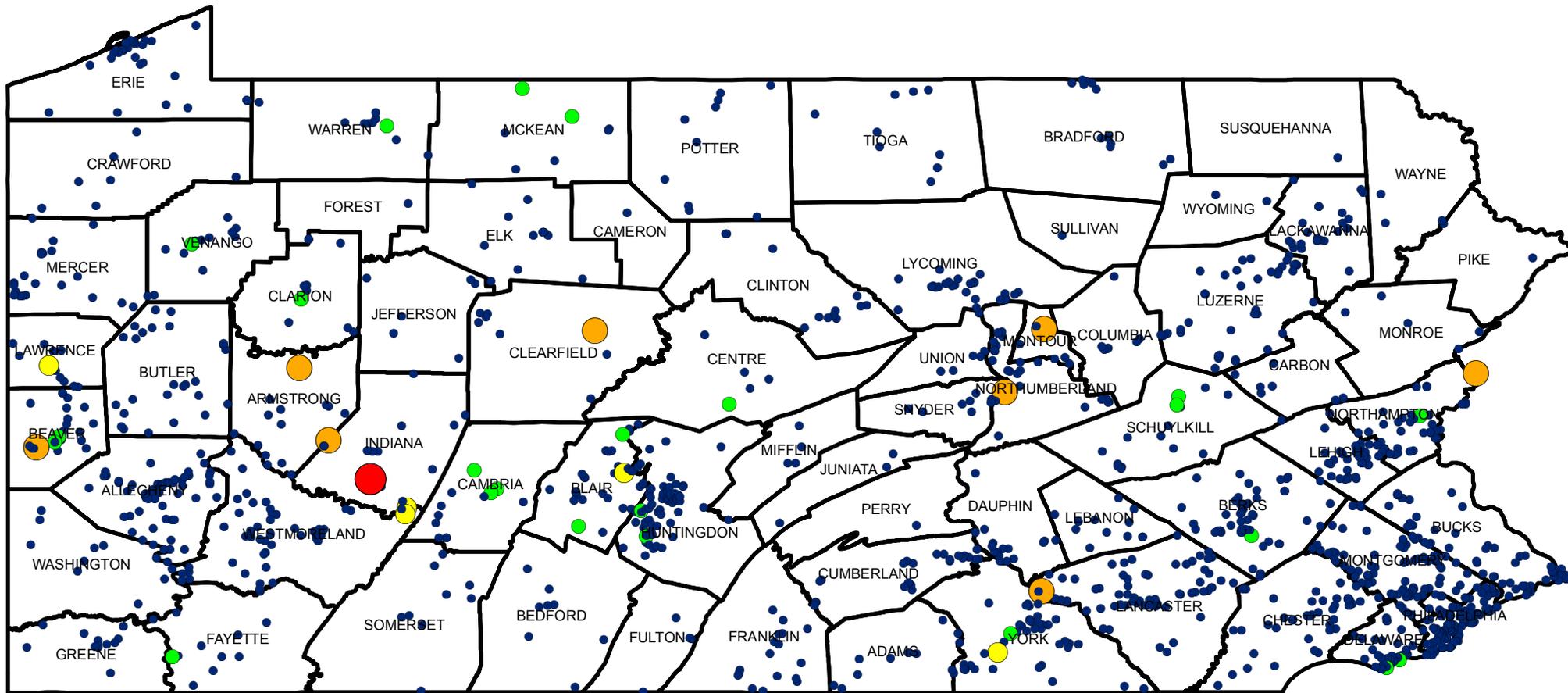
**PM<sub>2.5</sub> Point Source Emissions (tons per year)**

- 0 - 50
- 50 - 100
- 100 - 250
- 250 - 750
- Above 750

# Figure B-12

## Point Source Emissions by Facility

SO<sub>2</sub> Point Source Emissions



SO<sub>2</sub> Point Source Emissions are from the 2011 National Emissions Inventory

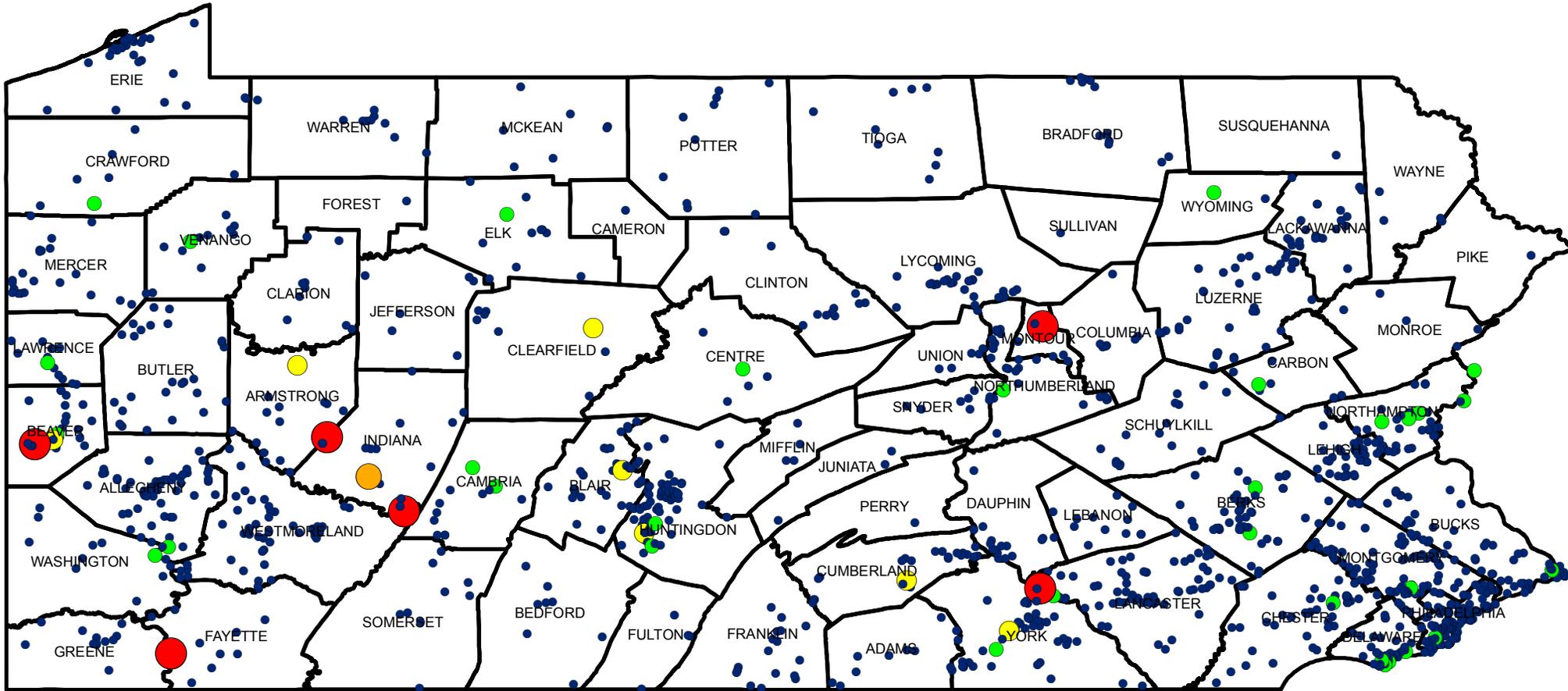
### SO<sub>2</sub> Point Source Emissions (tons per year)

- 0 - 1000
- 1000 - 5000
- 5000 - 10000
- 10000 - 50000
- Above 50000

# Figure B-13

## Point Source Emissions by Facility

NO<sub>x</sub> Point Source Emissions



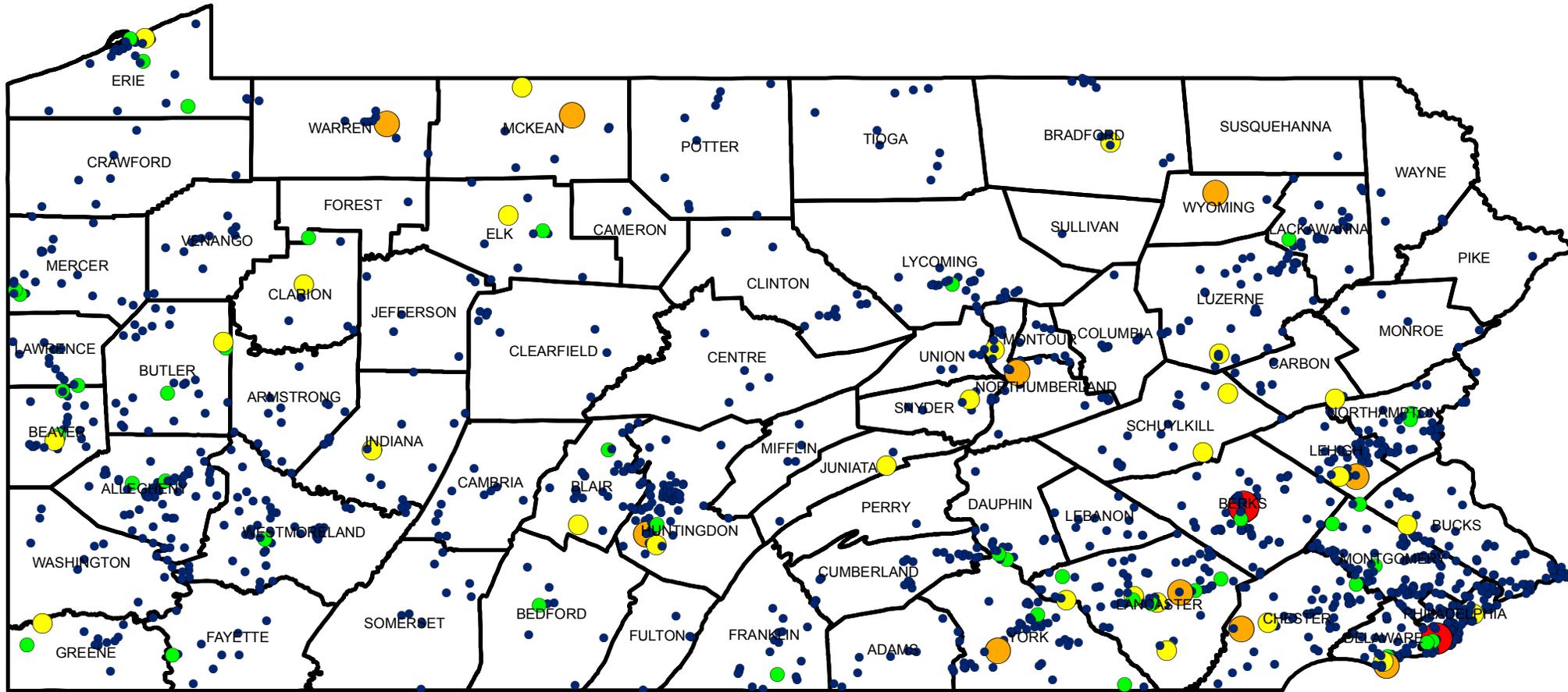
NO<sub>x</sub> Point Source Emissions are from the 2011 National Emissions Inventory

**NO<sub>x</sub> Point Source Emissions (tons per year)**

- 0 - 500
- 500 - 2000
- 2000 - 5000
- 5000 - 10000
- Above 10000

# Figure B-14 Point Source Emissions by Facility

VOC Point Source Emissions



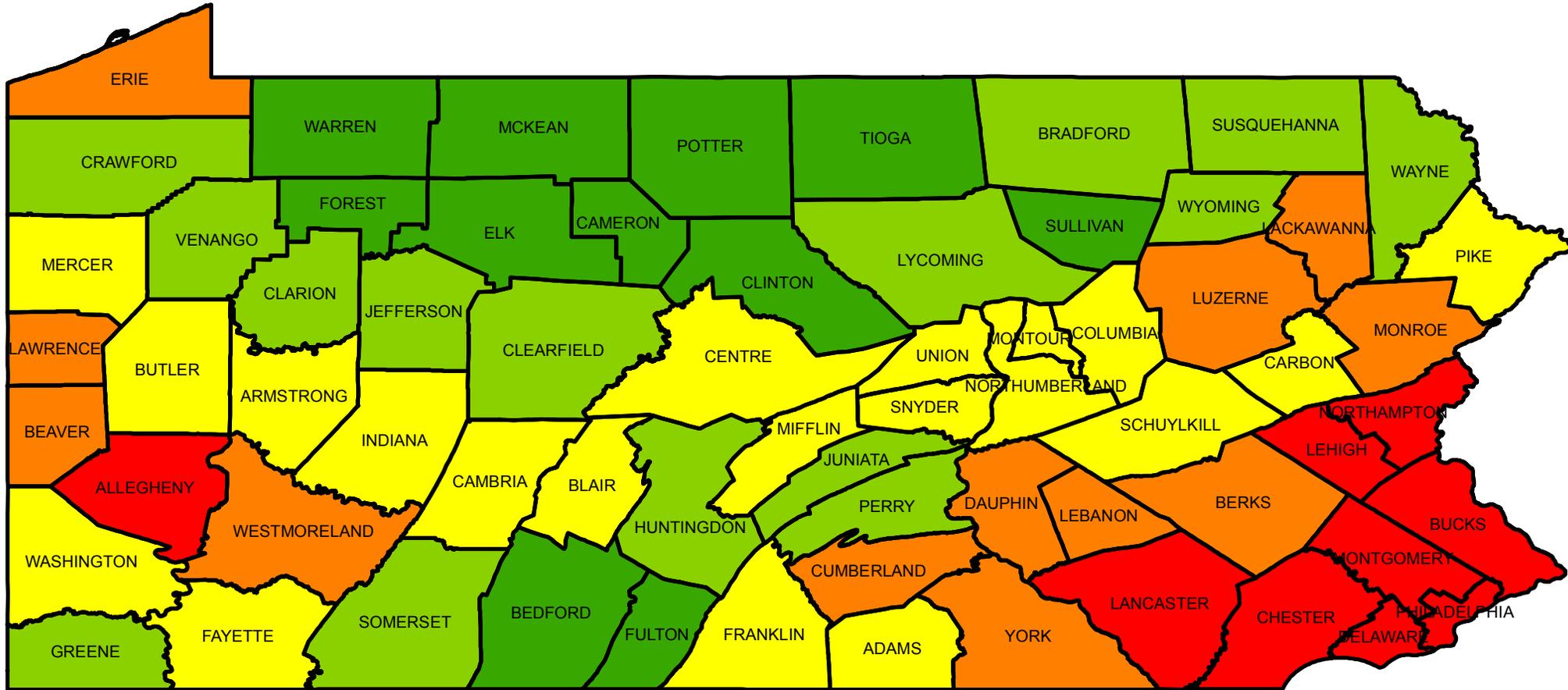
VOC Point Source Emissions are from the 2011 National Emissions Inventory

## VOC Point Source Emissions (tons per year)

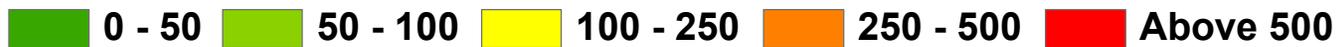
- 0 - 50
- 50 - 100
- 100 - 250
- 250 - 500
- Above 500

# Figure B-15 Population Density Map by County

Population based on 2010 US Census Results

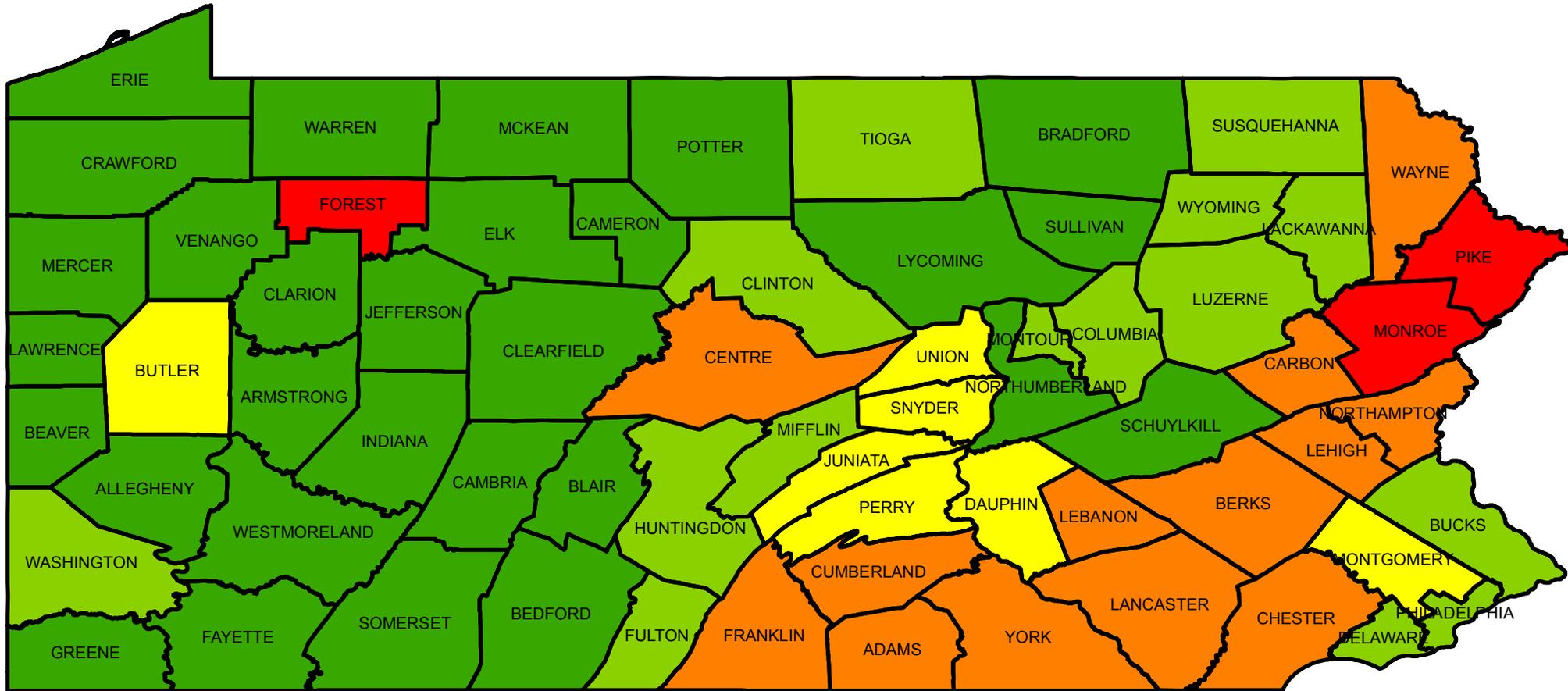


**Population Density (Person per square mile)**

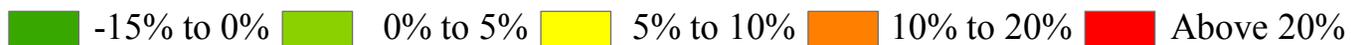


# Figure B-16 Population Growth Map by County

Population Trends based on 2000 and 2010 US Census Results

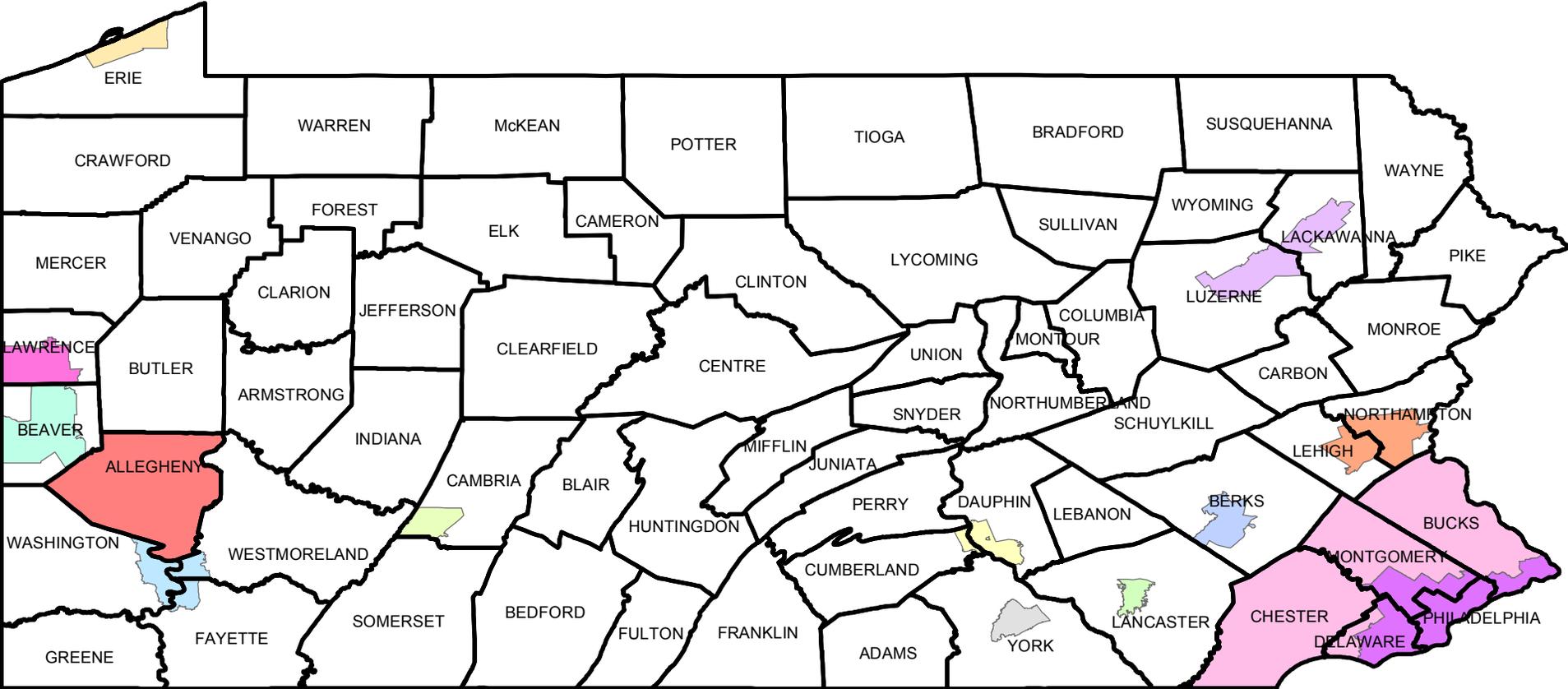


**Population Growth (% Change: Year 2010 - Year 2000)**



# Figure B-17

## Pennsylvania Air Basins Map



**Air Basins**

 Allegheny County	 Johnstown	 Reading	 Upper Beaver Valley
 Allentown Bethlehem Easton	 Lancaster	 Scranton Wilkes-Barre	 York
 Erie	 Lower Beaver Valley	 Southeast Pennsylvania Inner	 Liberty-Clairton
 Harrisburg	 Monongahela Valley	 Southeast Pennsylvania Outer	