

7.0 MAPS OF PM2.5 NONATTAINMENT AND UNCLASSIFIABLE AREAS

(Chapter 7 contains maps of the areas EPA designated as nonattainment for PM2.5)

Figure 7.1 Athens, GA PM2.5 Nonattainment Area

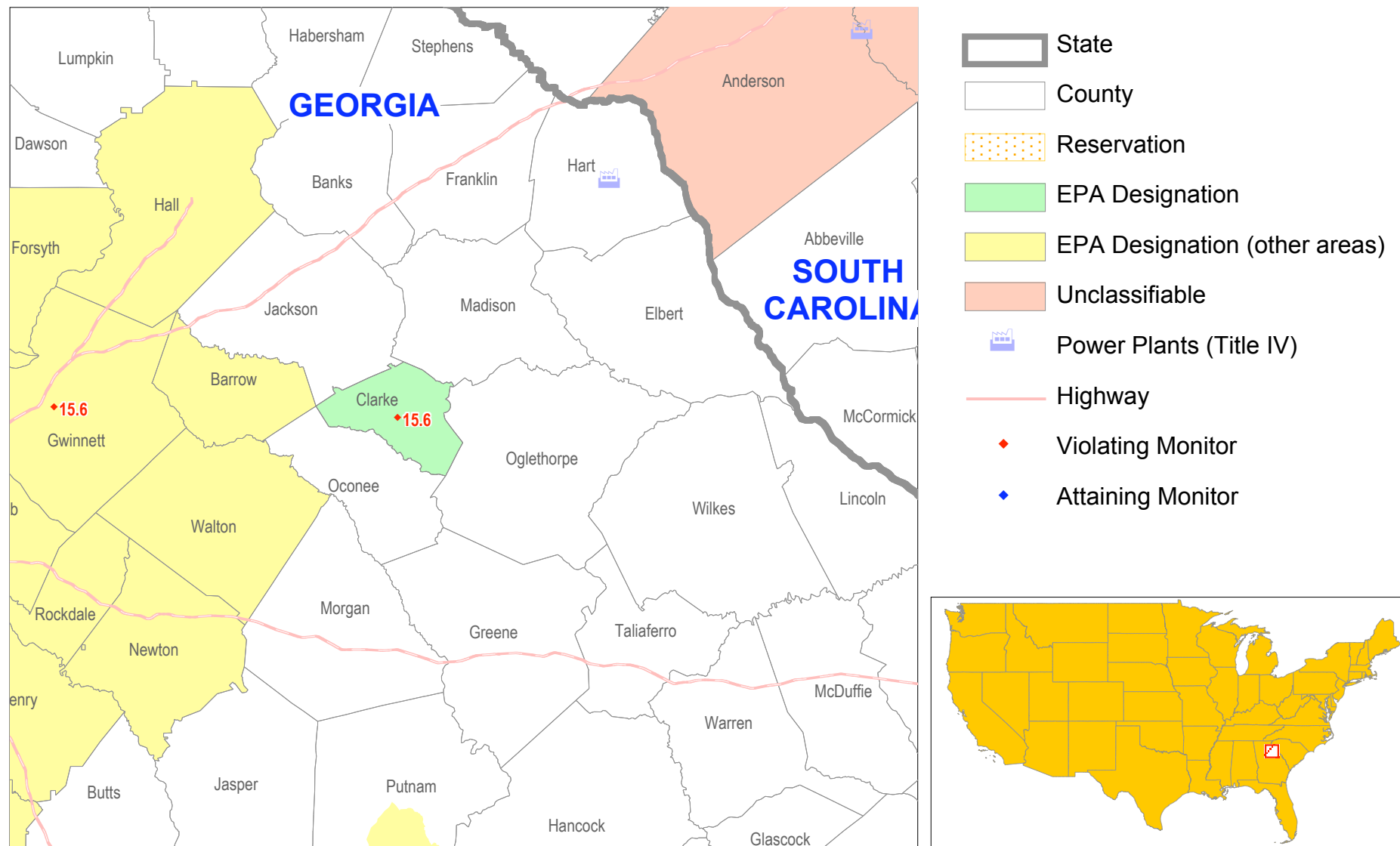
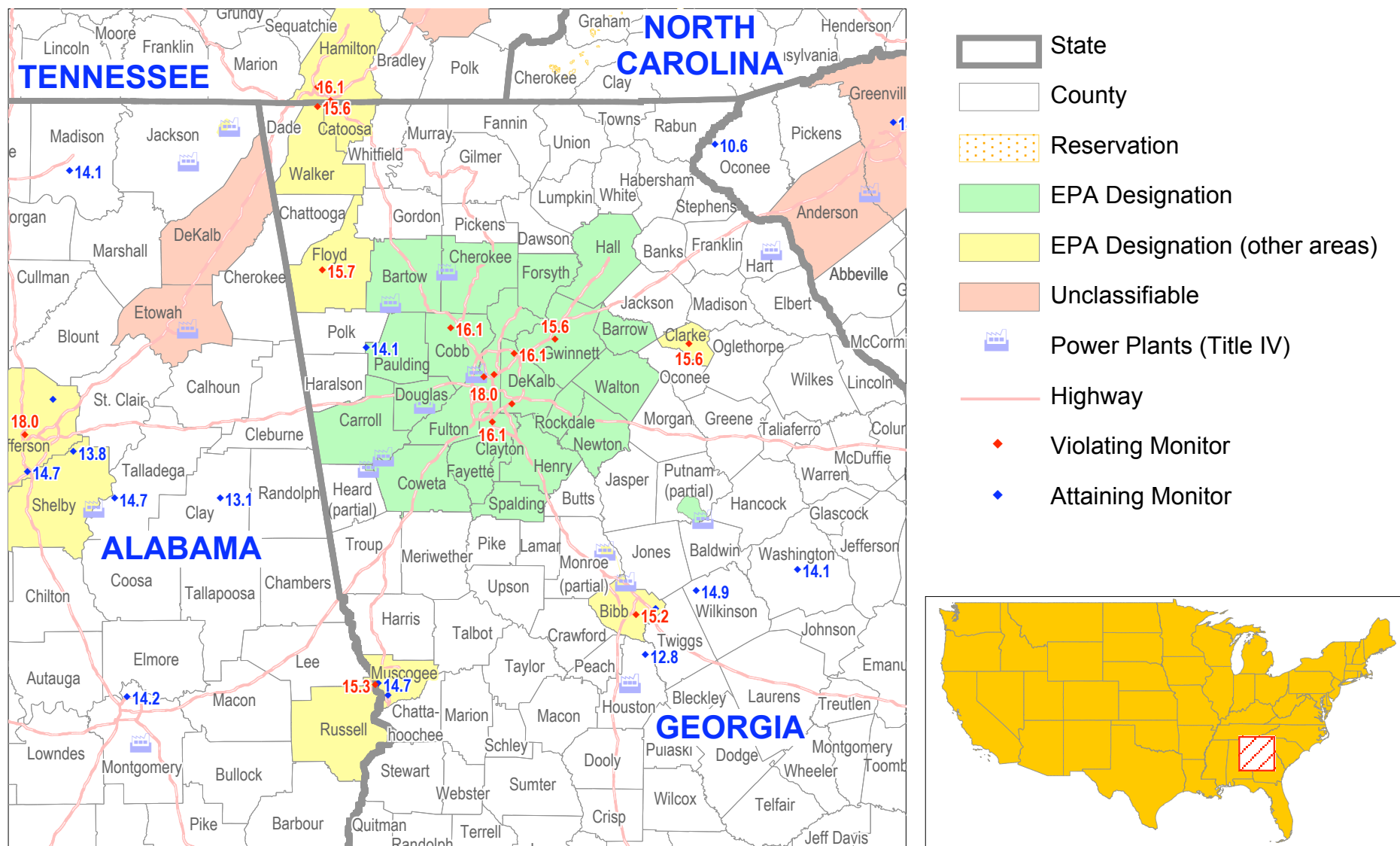


Figure 7.2 Atlanta, GA PM2.5 Nonattainment Area



This map displays the Washington, D.C. metropolitan area and surrounding regions in Pennsylvania, Delaware, and Maryland. It highlights ozone levels at various monitoring stations, with red diamonds indicating violators and blue diamonds indicating stations that are attaining the standard. The map also shows the locations of power plants, with blue icons representing Title IV facilities. The background is color-coded to show different EPA designations: green for designated areas and yellow for other areas. The map includes a legend for state and county boundaries, reservations, EPA designations, unclassifiable areas, power plants, highways, and monitoring stations. An inset map of the United States shows the location of the study area in the Northeast.

State	County	Ozone Level (ppb)	Monitor Type
Pennsylvania	York	15.8	Violating
Pennsylvania	Lancaster	17.3	Violating
Pennsylvania	Chester	17.0	Violating
Pennsylvania	Delaware	16.4	Violating
Pennsylvania	Philadelphia	16.4	Violating
Pennsylvania	Montgomery	14.3	Attaining
Pennsylvania	Adams	13.5	Attaining
Pennsylvania	Berks	16.4	Violating
Pennsylvania	Bucks	16.4	Violating
Pennsylvania	Lebanon	16.4	Violating
Pennsylvania	Dauphin	15.8	Violating
Pennsylvania	Perry	15.8	Violating
Pennsylvania	Huntingdon	15.8	Violating
Pennsylvania	Fulton	15.8	Violating
Pennsylvania	Franklin	15.8	Violating
Pennsylvania	Cumberland	15.8	Violating
Pennsylvania	York	15.8	Violating
Pennsylvania	Lancaster	17.3	Violating
Pennsylvania	Chester	17.0	Violating
Pennsylvania	Delaware	16.4	Violating
Pennsylvania	Philadelphia	16.4	Violating
Pennsylvania	Montgomery	14.3	Attaining
Pennsylvania	Adams	13.5	Attaining
Pennsylvania	Berks	16.4	Violating
Pennsylvania	Bucks	16.4	Violating
Pennsylvania	Lebanon	16.4	Violating
Pennsylvania	Dauphin	15.8	Violating
Pennsylvania	Perry	15.8	Violating
Pennsylvania	Huntingdon	15.8	Violating
Pennsylvania	Fulton	15.8	Violating
Pennsylvania	Franklin	15.8	Violating
Pennsylvania	Cumberland	15.8	Violating
Pennsylvania	York	15.8	Violating
Pennsylvania	Lancaster	17.3	Violating
Pennsylvania	Chester	17.0	Violating
Pennsylvania	Delaware	16.4	Violating
Pennsylvania	Philadelphia	16.4	Violating
Pennsylvania	Montgomery	14.3	Attaining
Pennsylvania	Adams	13.5	Attaining
Pennsylvania	Berks	16.4	Violating
Pennsylvania	Bucks	16.4	Violating
Pennsylvania	Lebanon	16.4	Violating
Pennsylvania	Dauphin	15.8	Violating
Pennsylvania	Perry	15.8	Violating
Pennsylvania	Huntingdon	15.8	Violating
Pennsylvania	Fulton	15.8	Violating
Pennsylvania	Franklin	15.8	Violating
Pennsylvania	Cumberland	15.8	Violating
Pennsylvania	York	15.8	Violating
Pennsylvania	Lancaster	17.3	Violating
Pennsylvania	Chester	17.0	Violating
Pennsylvania	Delaware	16.4	Violating
Pennsylvania	Philadelphia	16.4	Violating
Pennsylvania	Montgomery	14.3	Attaining
Pennsylvania	Adams	13.5	Attaining
Pennsylvania	Berks	16.4	Violating
Pennsylvania	Bucks	16.4	Violating
Pennsylvania	Lebanon	16.4	Violating
Pennsylvania	Dauphin	15.8	Violating
Pennsylvania	Perry	15.8	Violating
Pennsylvania	Huntingdon	15.8	Violating
Pennsylvania	Fulton	15.8	Violating
Pennsylvania	Franklin	15.8	Violating
Pennsylvania	Cumberland	15.8	Violating
Pennsylvania	York	15.8	Violating
Pennsylvania	Lancaster	17.3	Violating
Pennsylvania	Chester	17.0	Violating
Pennsylvania	Delaware	16.4	Violating
Pennsylvania	Philadelphia	16.4	Violating
Pennsylvania	Montgomery	14.3	Attaining
Pennsylvania	Adams	13.5	Attaining
Pennsylvania	Berks	16.4	Violating
Pennsylvania	Bucks	16.4	Violating
Pennsylvania	Lebanon	16.4	Violating
Pennsylvania	Dauphin	15.8	Violating
Pennsylvania	Perry	15.8	Violating
Pennsylvania	Huntingdon	15.8	Violating
Pennsylvania	Fulton	15.8	Violating
Pennsylvania	Franklin	15.8	Violating
Pennsylvania	Cumberland	15.8	Violating
Pennsylvania	York	15.8	Violating
Pennsylvania	Lancaster	17.3	Violating
Pennsylvania	Chester	17.0	Violating
Pennsylvania	Delaware	16.4	Violating
Pennsylvania	Philadelphia	16.4	Violating
Pennsylvania	Montgomery	14.3	Attaining
Pennsylvania	Adams	13.5	Attaining
Pennsylvania	Berks	16.4	Violating
Pennsylvania	Bucks	16.4	Violating
Pennsylvania	Lebanon	16.4	Violating
Pennsylvania	Dauphin	15.8	Violating
Pennsylvania	Perry	15.8	Violating
Pennsylvania	Huntingdon	15.8	Violating
Pennsylvania	Fulton	15.8	Violating
Pennsylvania	Franklin	15.8	Violating
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Figure 7.4 Birmingham, AL PM2.5 Nonattainment Area

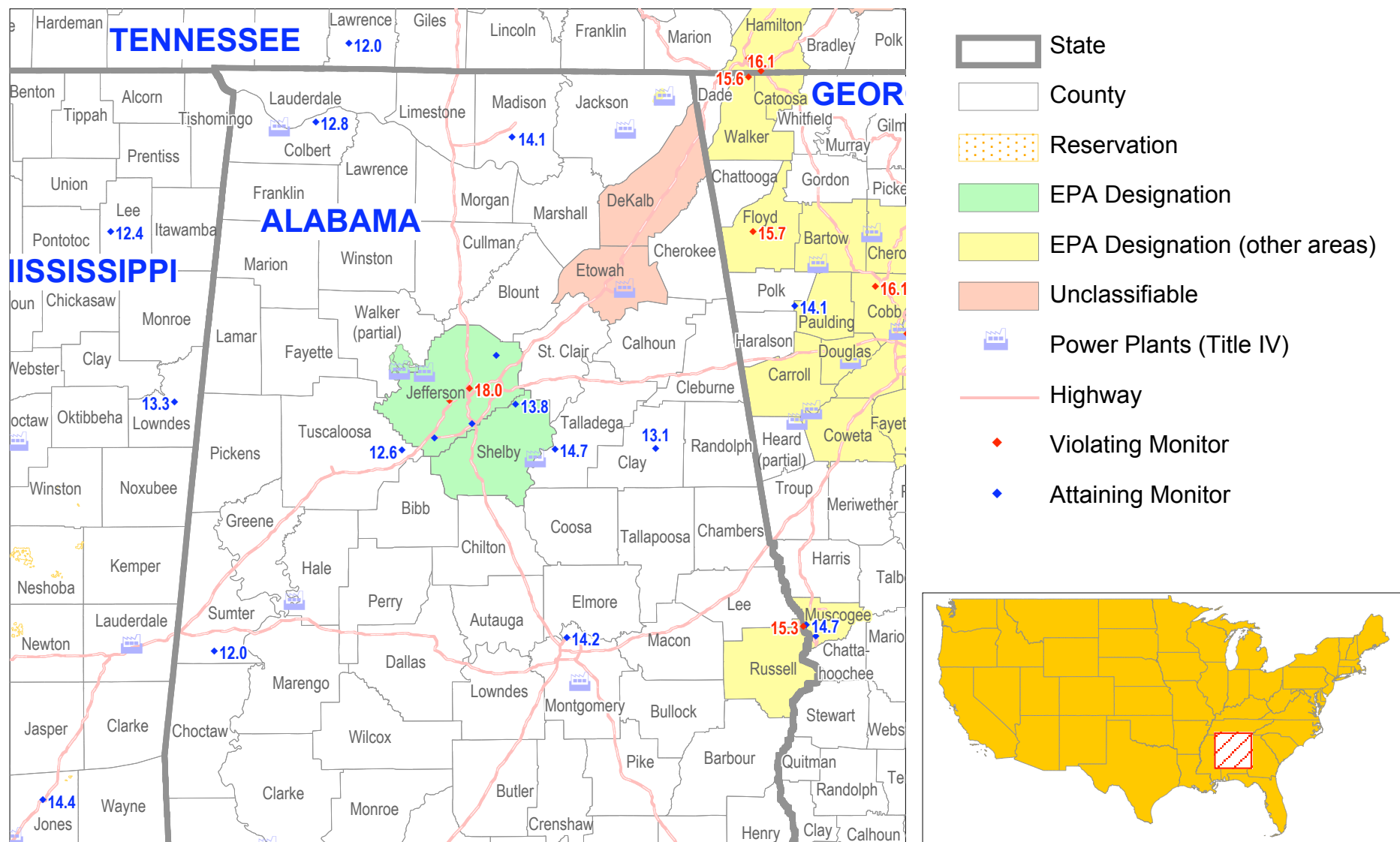
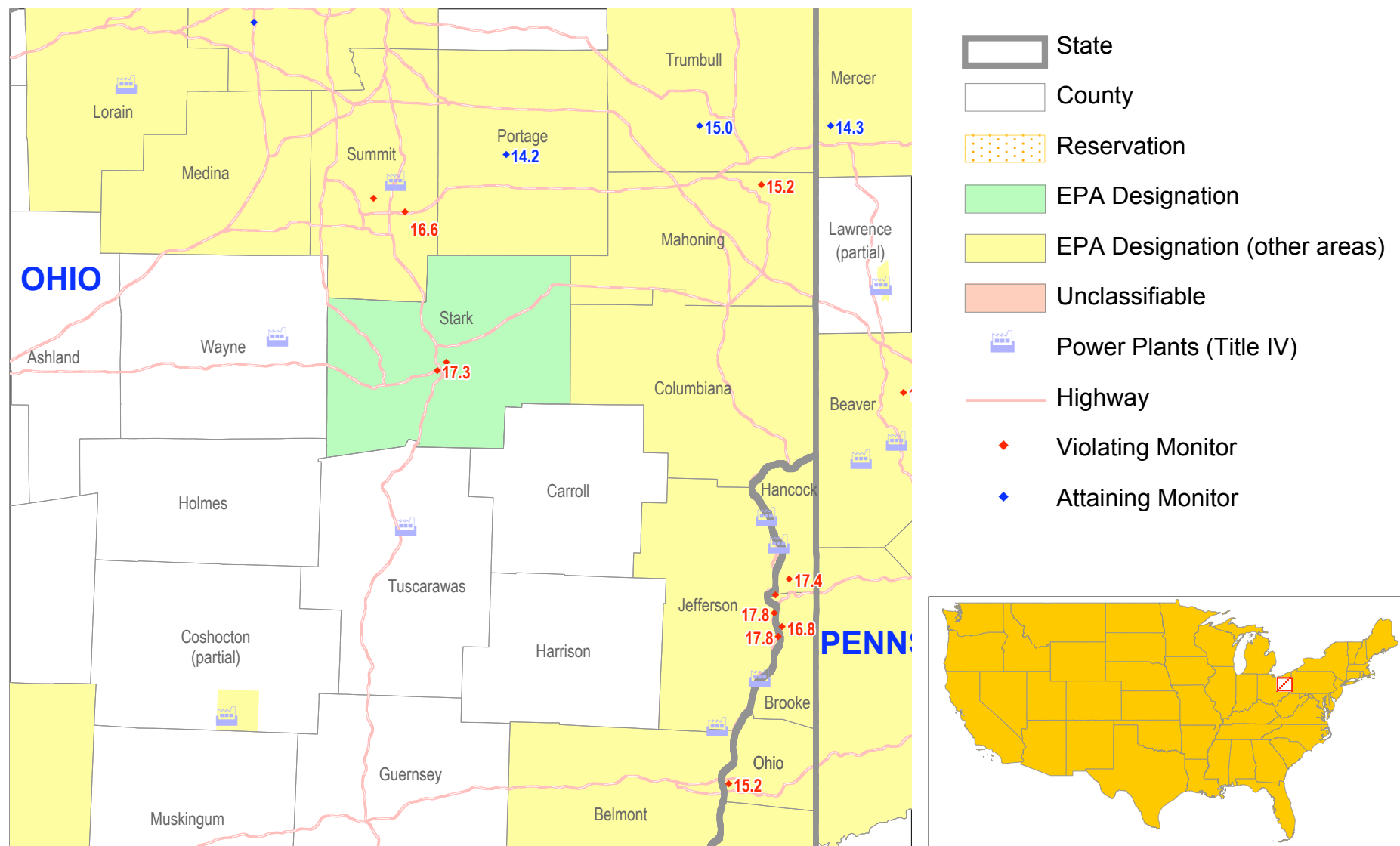


Figure 7.5 Canton-Massillon, OH PM2.5 Nonattainment Area



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VIRGINIA

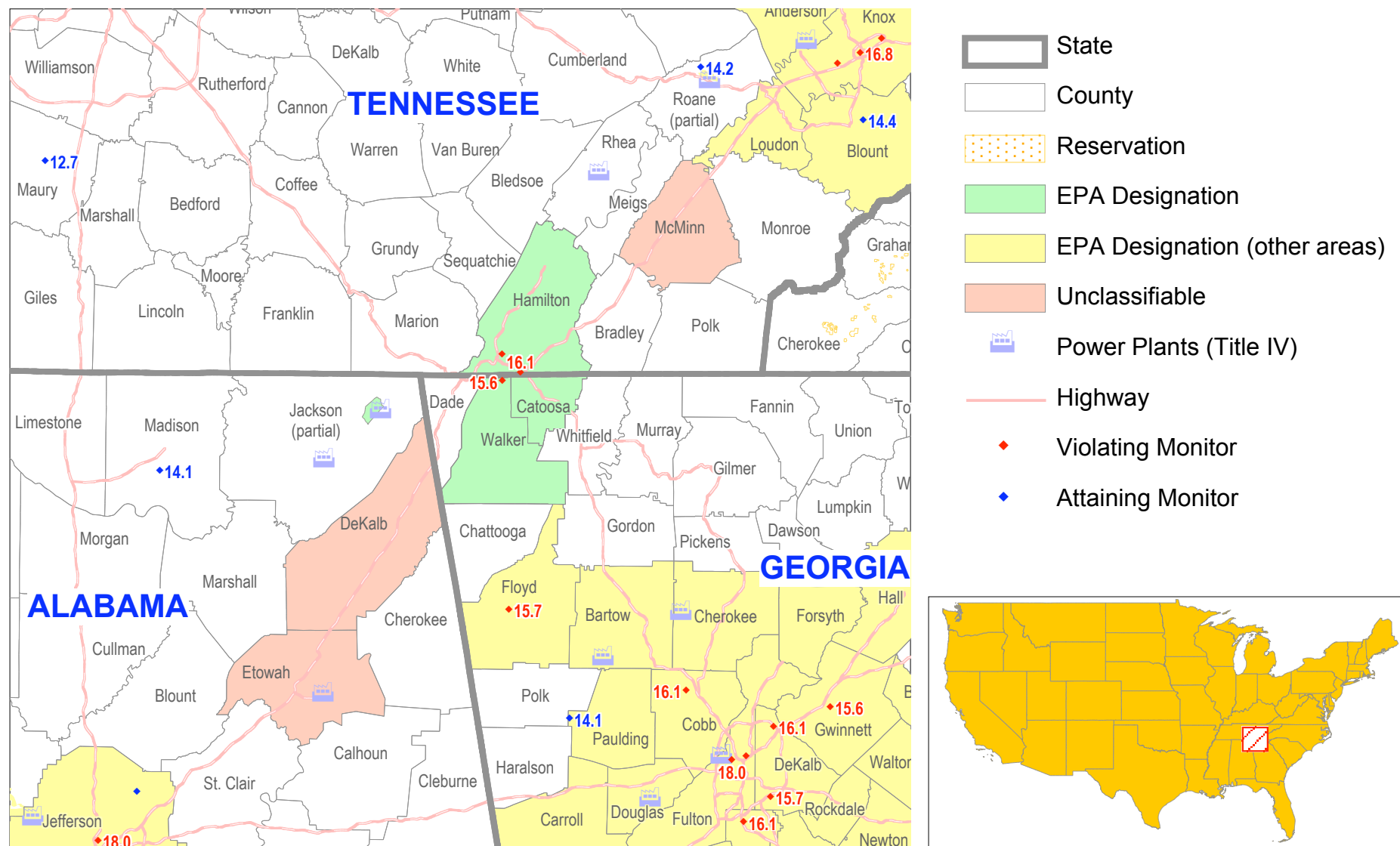
Legend:

- State
- County
- Reservation
- EPA Designation
- EPA Designation (other areas)
- Unclassifiable
- Power Plants (Title IV)
- Highway
- Violating Monitor
- Attaining Monitor

Monitoring Data (2015):

County	Monitor	Value	Status
Scioto	17.2	17.2	Violating
Wayne	15.8	15.8	Violating
Wayne	16.6	16.6	Violating
Wayne	15.0	15.0	Attaining
Carter	12.2	12.2	Attaining
Lincoln	17.1	17.1	Violating
Raleigh	13.1	13.1	Attaining
Summers	10.1	10.1	Attaining
Buchanan	12.5	12.5	Attaining
Floyd	13.8	13.8	Attaining
Monroe	14.0	14.0	Attaining

Figure 7.7 Chattanooga, TN-GA PM2.5 Nonattainment Area



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Figure 7.9 Cincinnati-Hamilton, OH-KY-IN PM2.5 Nonattainment Area

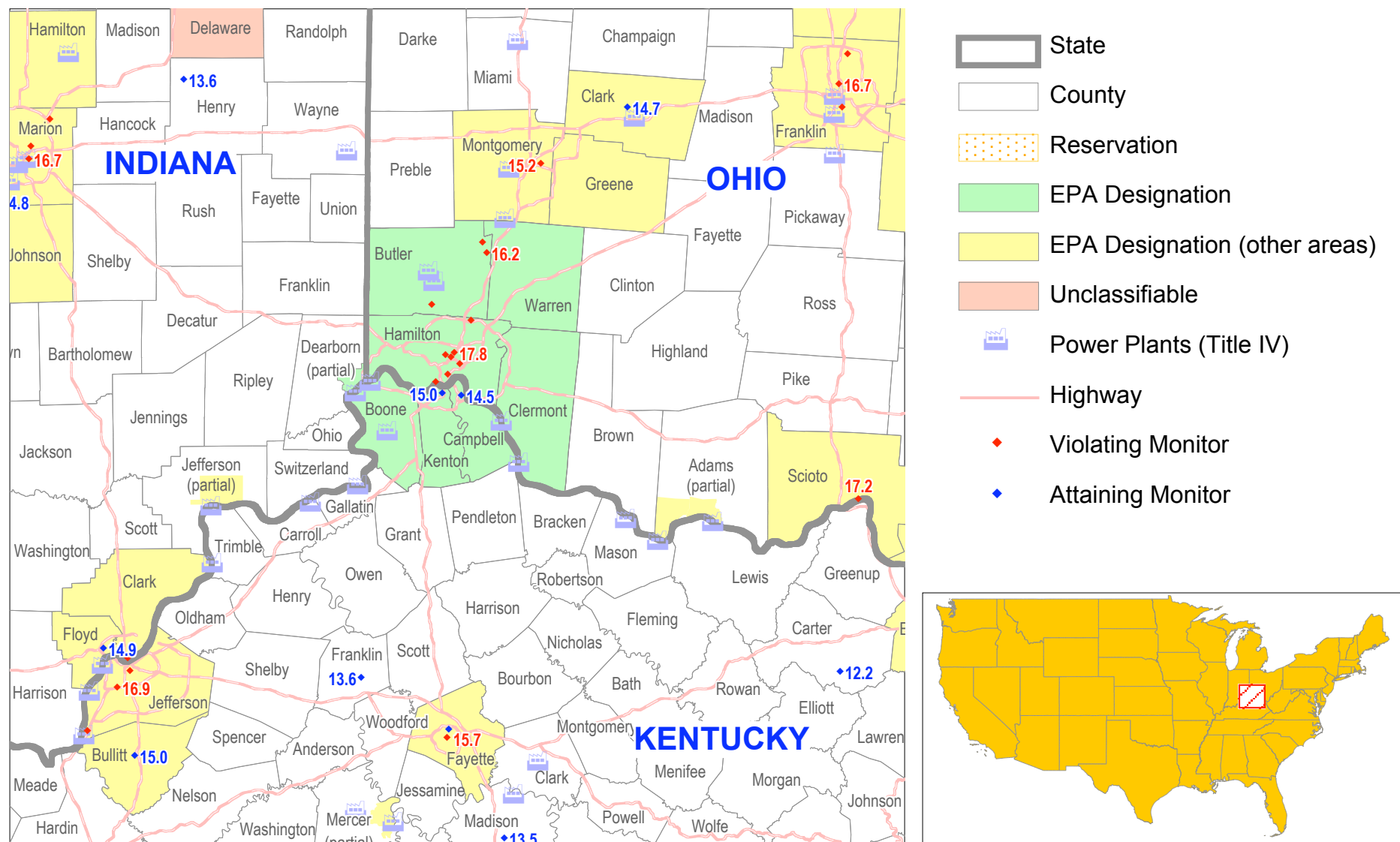


Figure 7.10 Cleveland-Akron-Lorain, OH PM2.5 Nonattainment Area

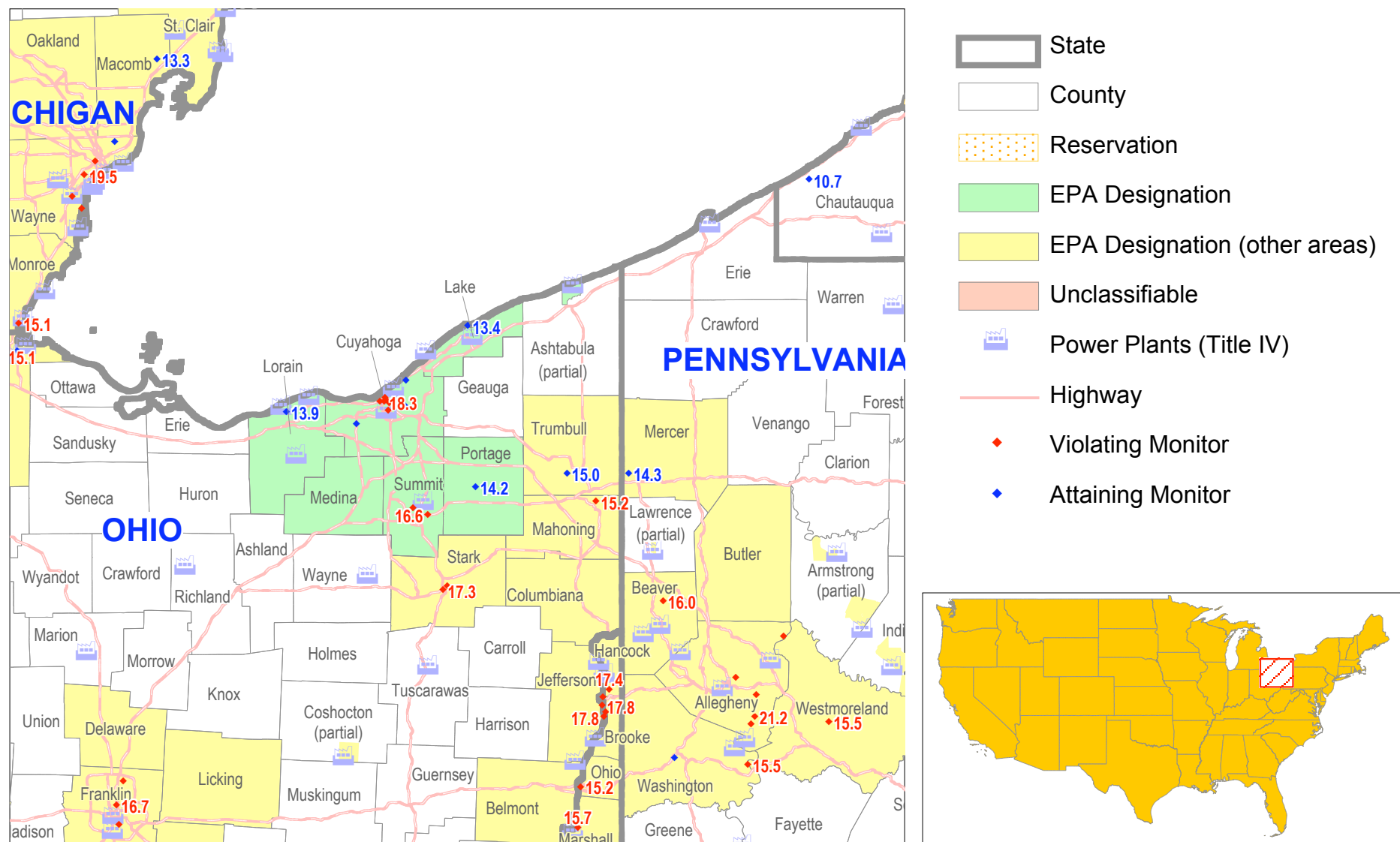
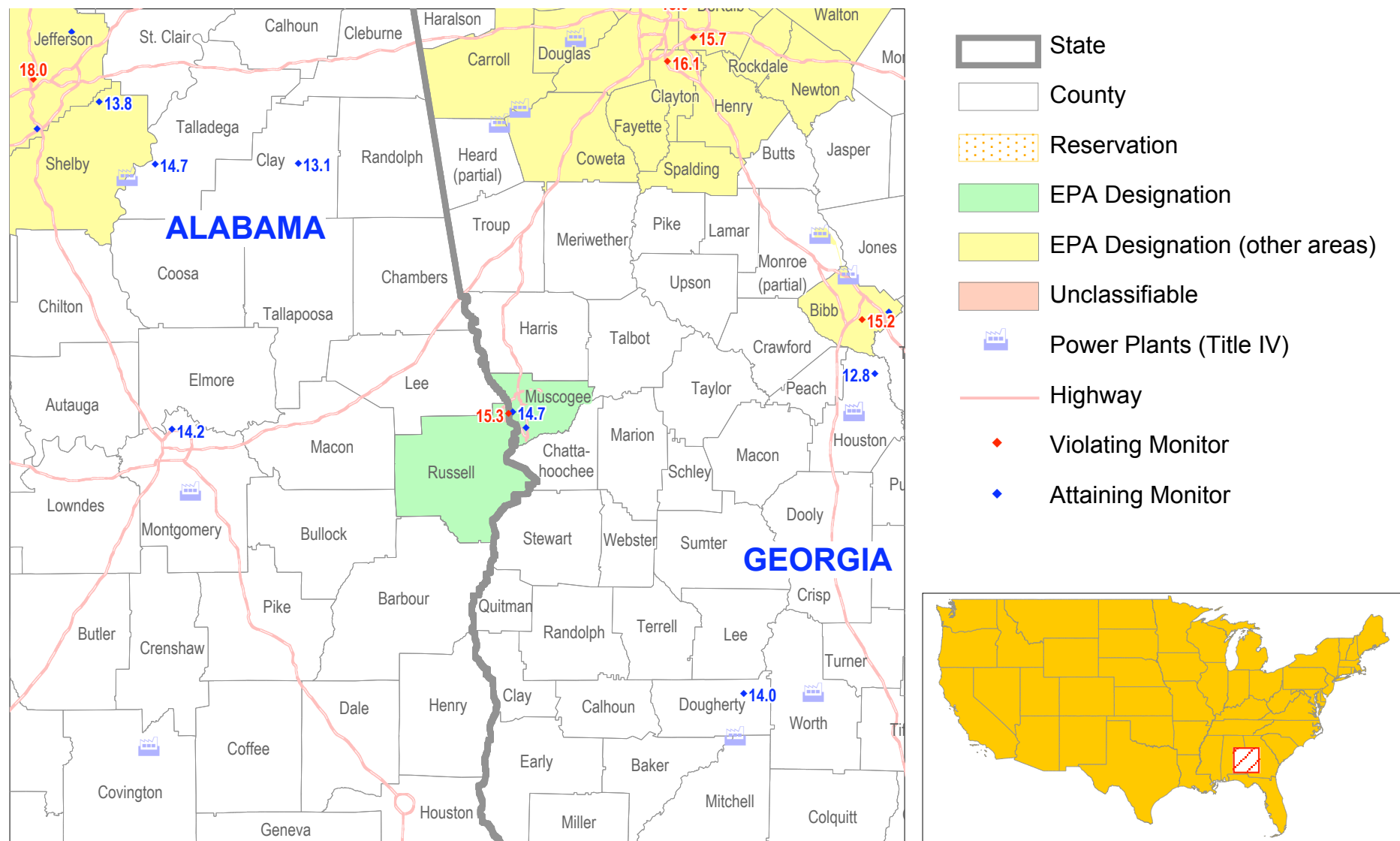


Figure 7.11 Columbus, GA-AL PM2.5 Nonattainment Area



Legend:

- State
- County
- Reservation
- EPA Designation
- EPA Designation (other areas)
- Unclassifiable
- Power Plants (Title IV)
- Highway
- Violating Monitor
- Attaining Monitor

Map Data:

County	EPA Designation	Violating Monitors (ppb)	Attaining Monitors (ppb)
Adams	Unclassifiable	14.3	14.3
Ashtabula	Unclassifiable	13.9	13.9
Cuyahoga	Unclassifiable	14.2	14.2
Franklin	EPA Designation	16.7	16.7
Licking	EPA Designation	16.7	16.7
Madison	Unclassifiable	14.7	14.7
Montgomery	Unclassifiable	15.2	15.2
Butler	Unclassifiable	16.2	16.2
Hamilton	Unclassifiable	17.8	17.8
Clermont	Unclassifiable	14.5	14.5
Kent	Unclassifiable	15.0	15.0
Scioto	Unclassifiable	17.2	17.2
Lawrence	Unclassifiable	15.8	15.8
Boyd	Unclassifiable	15.0	15.0
Cabell	Unclassifiable	16.6	16.6
Meigs	Unclassifiable	12.5	12.5
Washington	Unclassifiable	16.0	16.0
Belmont	Unclassifiable	15.7	15.7
Monroe	Unclassifiable	15.2	15.2
Stark	Unclassifiable	17.3	17.3
Summit	Unclassifiable	16.6	16.6
Portage	Unclassifiable	14.2	14.2
Trumbull	Unclassifiable	15.0	15.0

Figure 7.13 Dayton-Springfield, OH PM2.5 Nonattainment Area

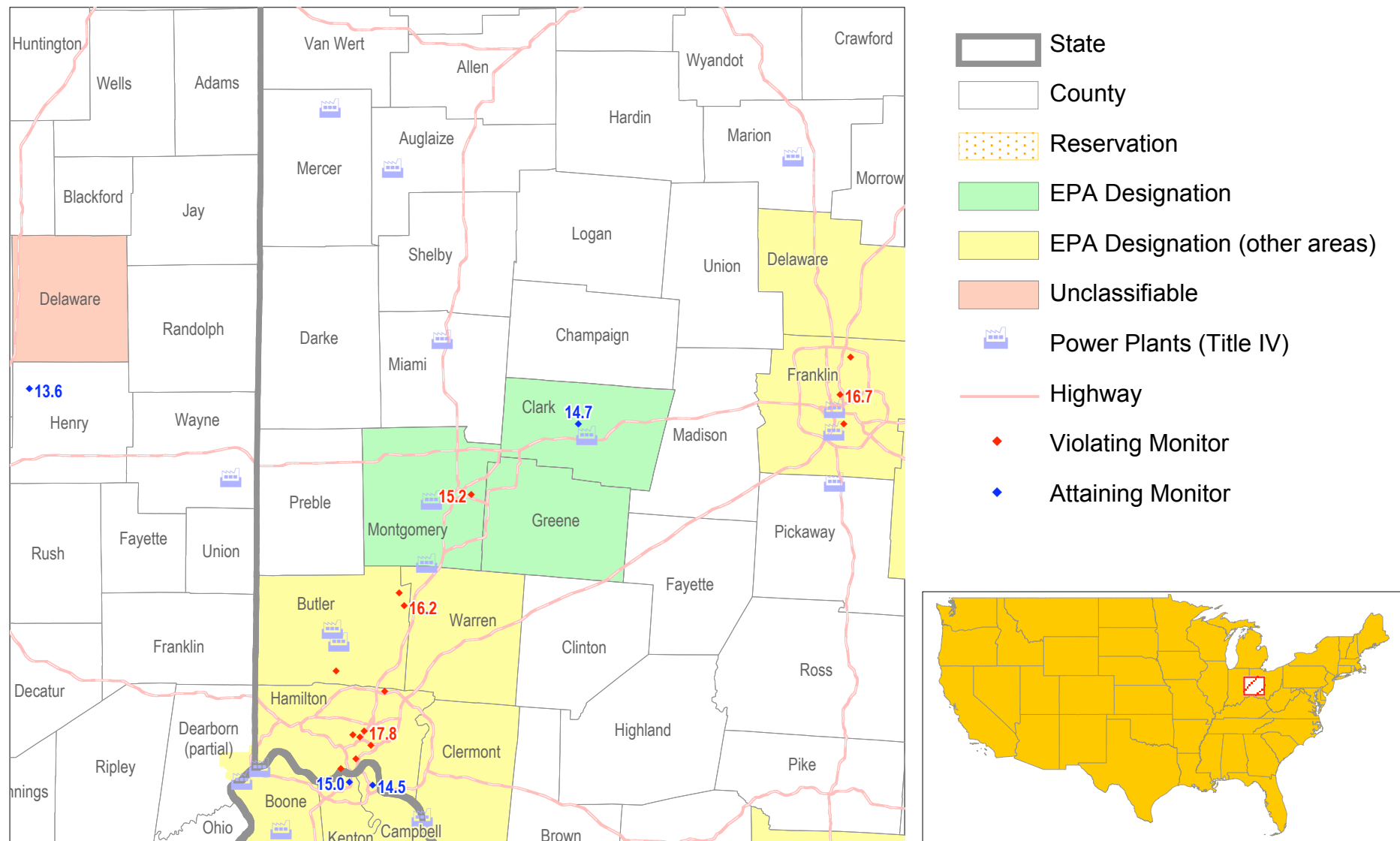


Figure 7.14 DeKalb County (Unclassifiable Area)

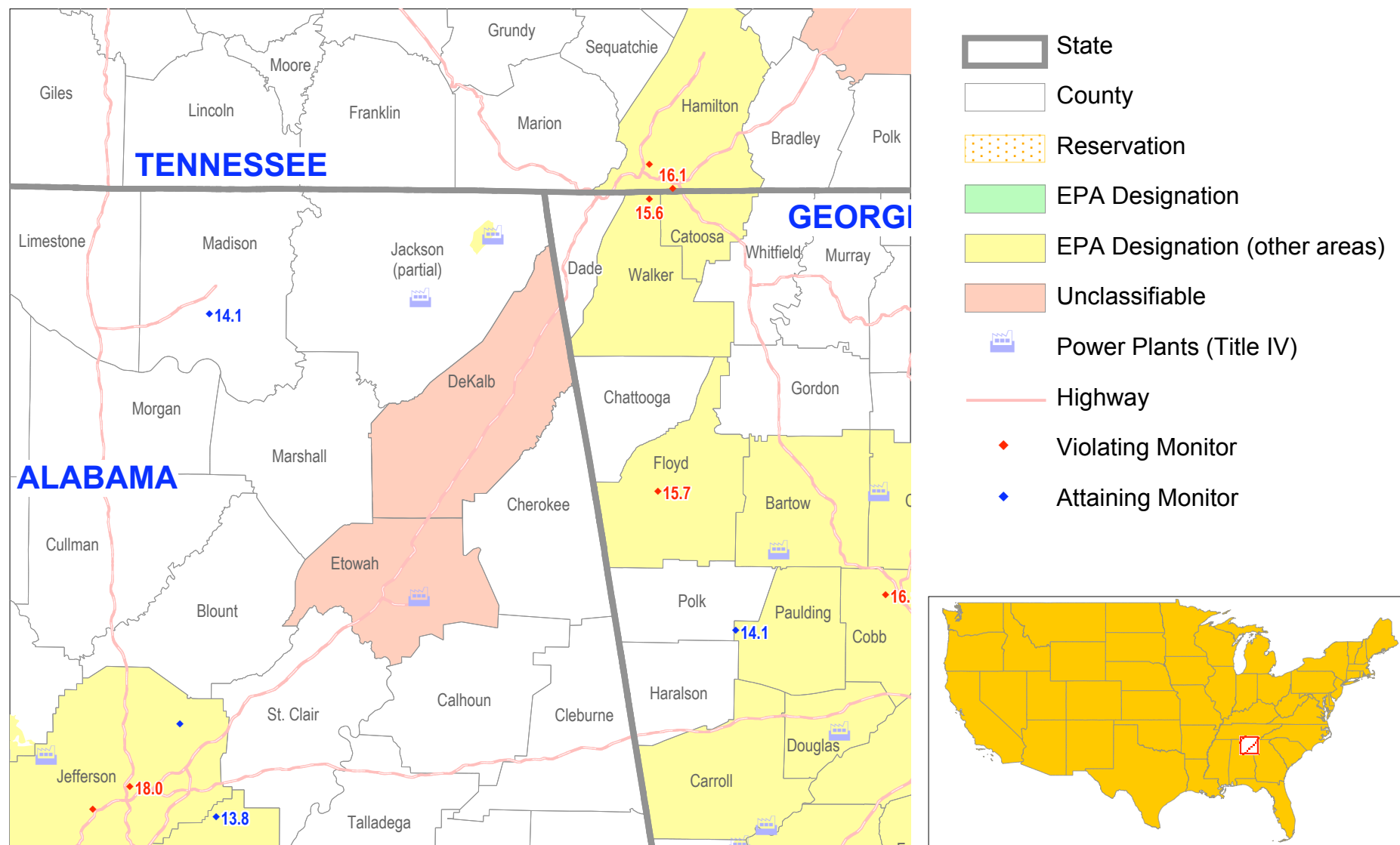


Figure 7.15 Detroit-Ann Arbor, MI PM2.5 Nonattainment Area

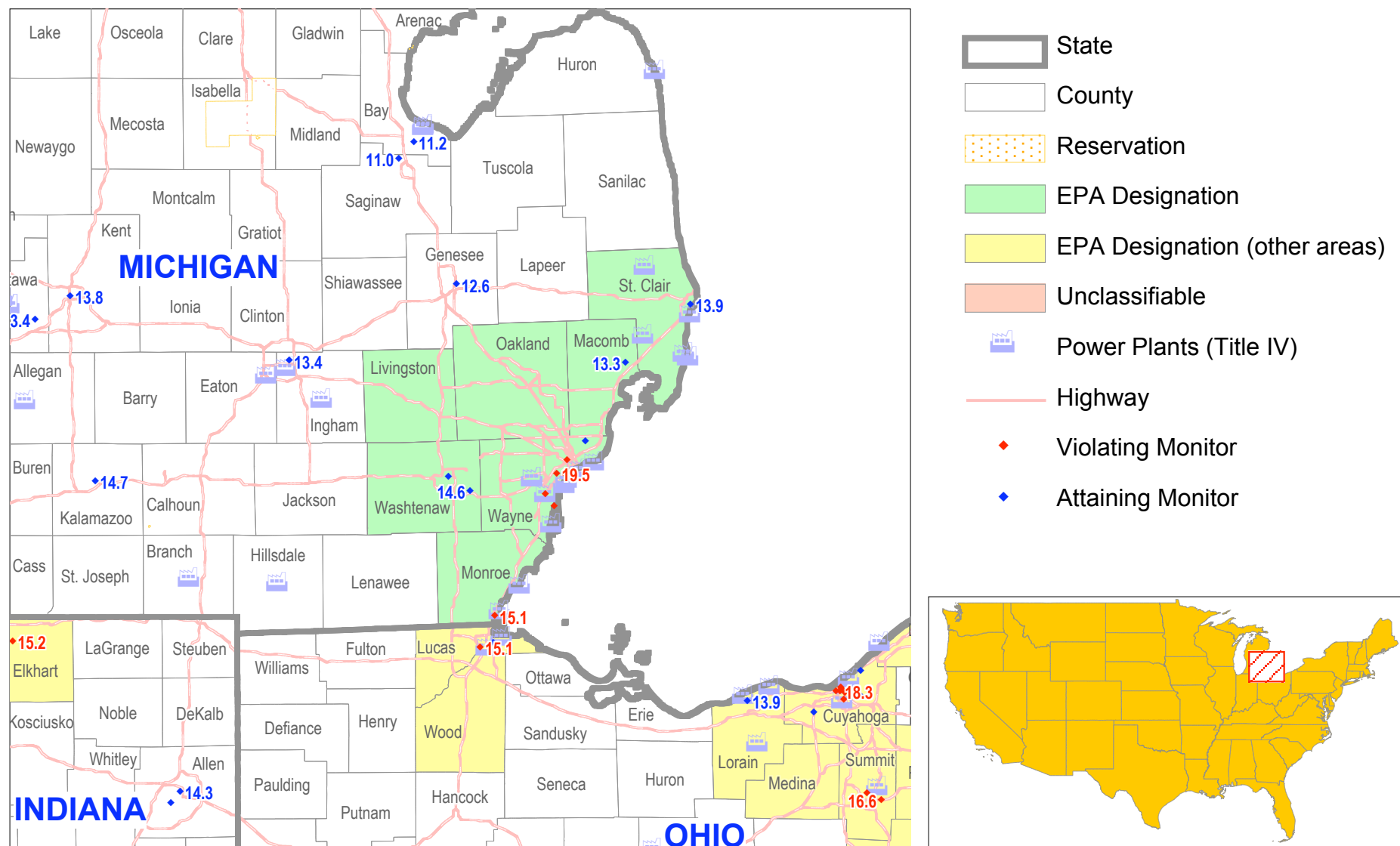
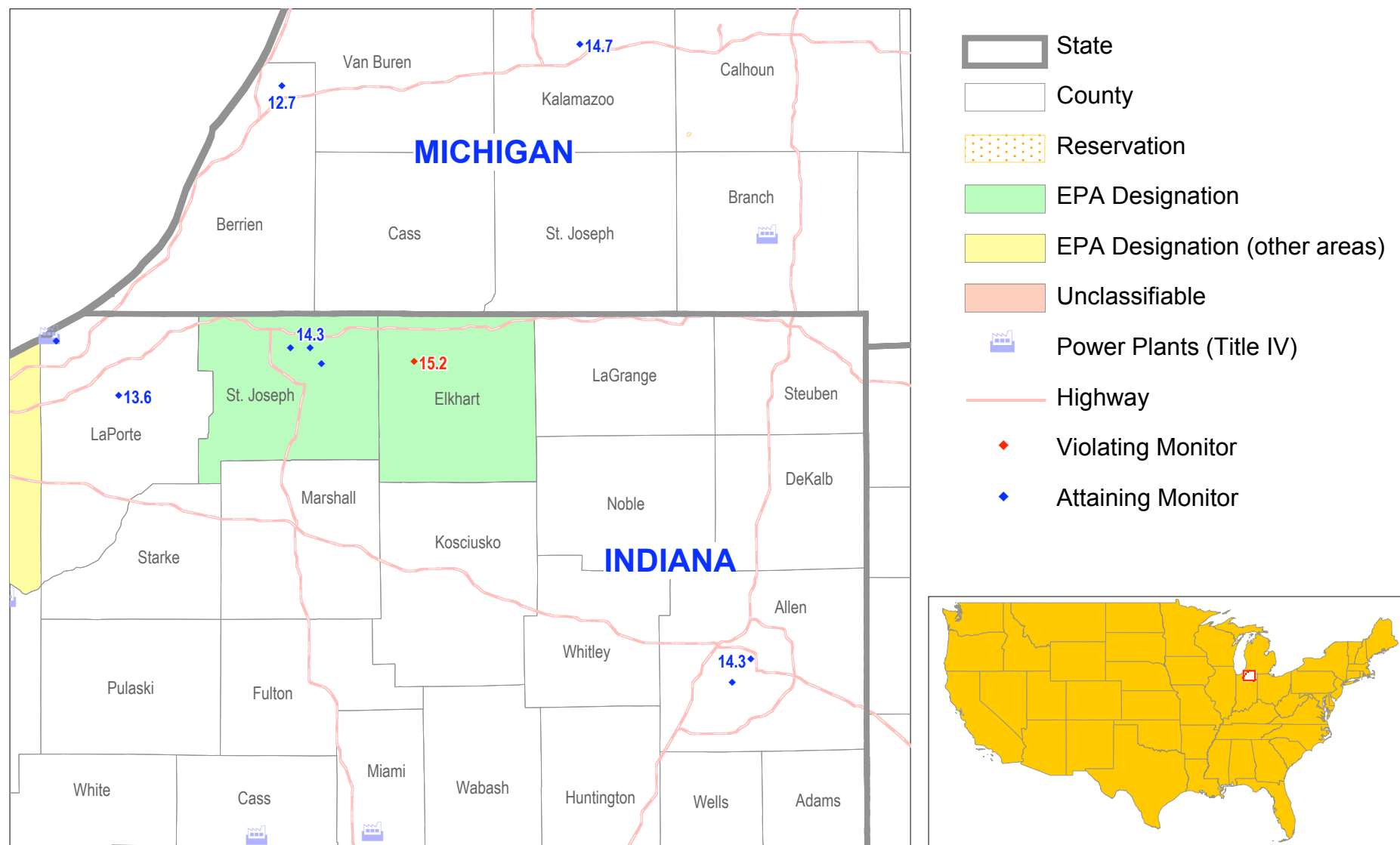


Figure 7.16 Elkhart, IN PM2.5 Nonattainment Area



This map displays the state of Indiana, divided into counties. The map highlights several ozone nonattainment areas, which are shaded in green and yellow. The legend indicates that green shading represents EPA Designation, while yellow shading represents EPA Designation (other areas). The map also shows the locations of power plants (Title IV) and monitoring stations. Monitoring stations are marked with red diamonds for violating monitors and blue diamonds for attaining monitors. The map includes labels for neighboring states: Illinois to the west, Kentucky to the south, and Ohio to the east. The map also shows major highways and the location of the state capital, Indianapolis.

Legend:

- State
- County
- Reservation
- EPA Designation
- EPA Designation (other areas)
- Unclassifiable
- Power Plants (Title IV)
- Highway
- Violating Monitor
- Attaining Monitor

Monitoring Station Data:

Station Name	Value	Monitor Type
Ballard	13.5	Attaining
Clark	14.9	Attaining
Dubois	16.2	Violating
Floyd	14.9	Attaining
Jefferson	16.9	Violating
Meade	15.0	Attaining
Perry	14.4	Attaining
Spencer (partial)	14.9	Attaining
Union	15.5	Violating
Warren	13.8	Attaining

Figure 7.18 Floyd County, GA PM2.5 Nonattainment Area

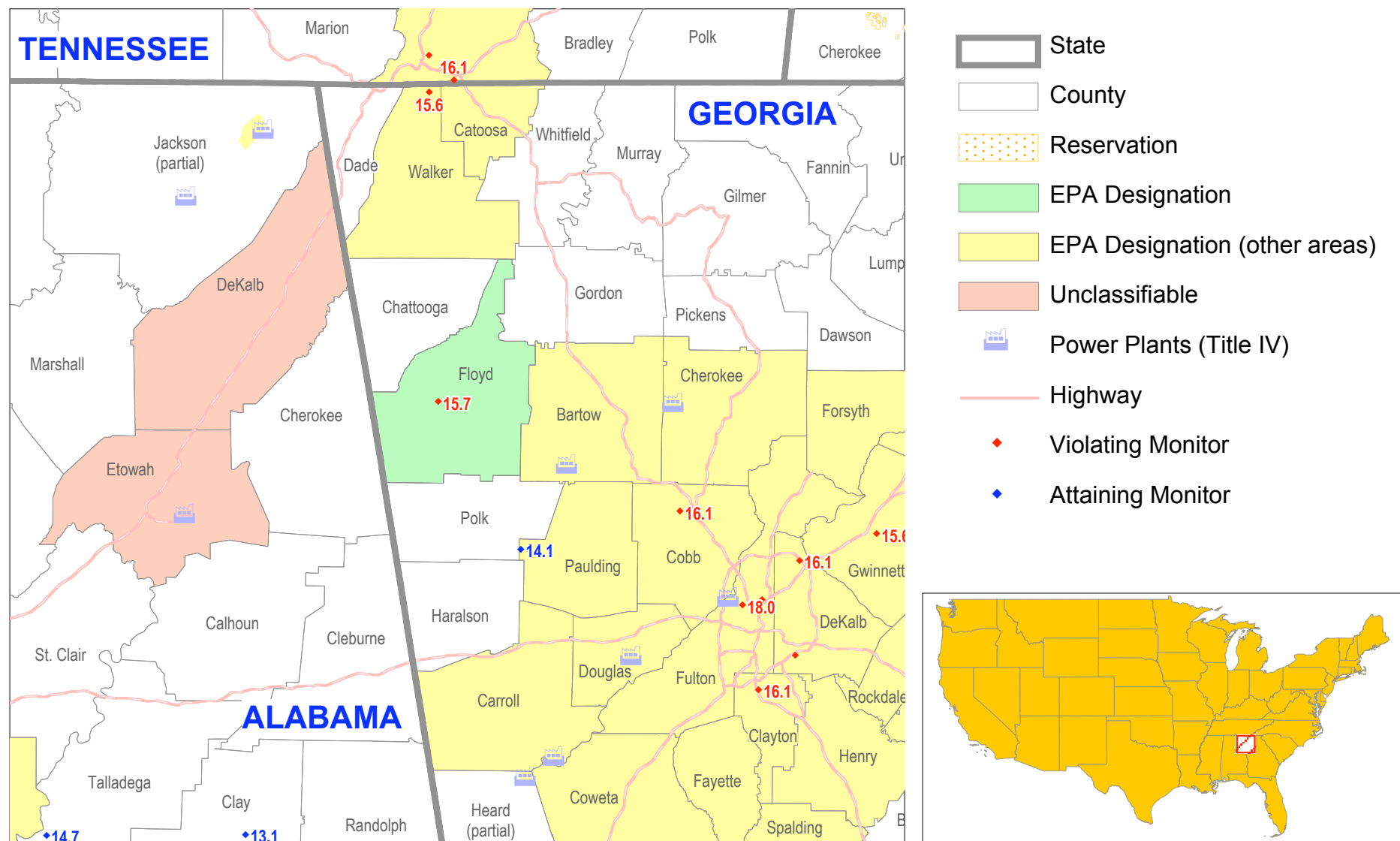
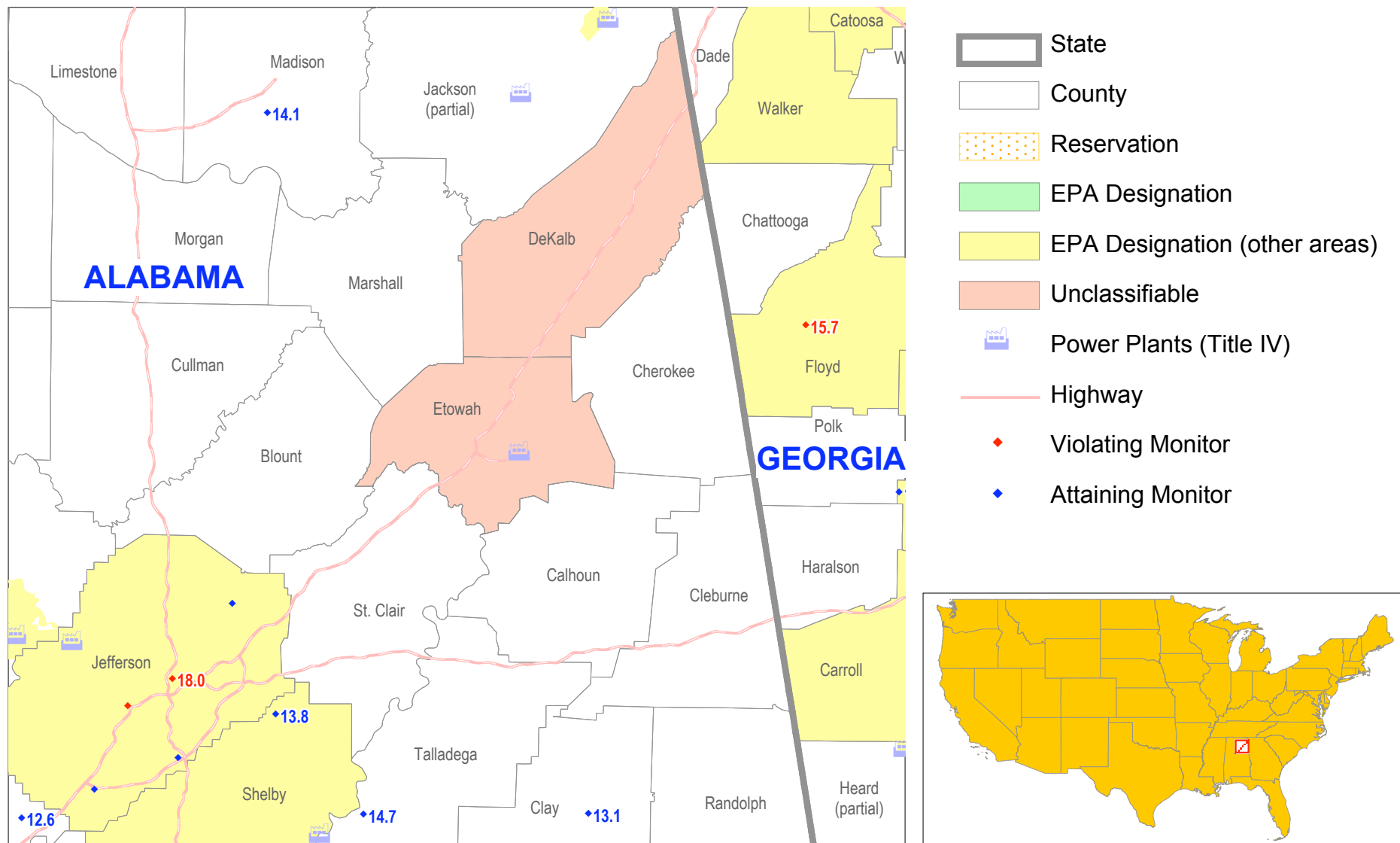


Figure 7.19 Gadsden, AL (Unclassifiable Area)



Legend:

- State
- County
- Reservation
- EPA Designation
- EPA Designation (other areas)
- Unclassifiable
- Power Plants (Title IV)
- Highway
- Violating Monitor
- Attaining Monitor

Map Data:

Location	Monitor Type	Ozone Level (ppb)
Roanoke, VA	Attaining	14.7
Roanoke, VA	Attaining	14.2
McDowell, VA	Attaining	12.5
Salisbury, NC	Attaining	13.3
Forsyth, NC	Attaining	14.6
Guilford, NC	Attaining	13.7
Alamance, NC	Attaining	13.1
Durham, NC	Attaining	13.9
Wake, NC	Attaining	13.8
Chatham, NC	Attaining	12.2
Lee, NC	Attaining	12.8
Moore, NC	Attaining	12.1
Mecklenburg, NC	Attaining	14.9
Rowan, NC	Attaining	14.5
Davidson, NC	Attaining	15.8
Catawba, SC	Attaining	15.5
Lincoln, SC	Attaining	14.2
York, SC	Attaining	13.7

Legend:

- State
- County
- Reservation
- EPA Designation
- EPA Designation (other areas)
- Unclassifiable
- Power Plants (Title IV)
- Highway
- Violating Monitor
- Attaining Monitor

Map Data:

State	County	Monitor Type	Value
North Carolina	Knox	Violating	16.8
	Blount	Attaining	14.4
	McDowell	Attaining	14.2
	Catawba	Violating	15.5
	Rowan	Attaining	14.5
	Gaston	Attaining	14.9
	Mecklenburg	Attaining	14.9
	Transylvania	Attaining	13.6
	Haywood	Attaining	13.0
	Swain	Attaining	12.9
South Carolina	Anderson	Attaining	14.5
	Spartanburg	Attaining	13.7
	Greenville	Attaining	13.7
	Oconee	Attaining	10.6
	Abbeville	Attaining	13.1
	Greenwood	Attaining	13.5
	Lexington	Attaining	13.5
	Richland	Attaining	12.8
	Sumter	Attaining	12.8
	Columbia	Attaining	14.7
Georgia	Gwinnett	Violating	16.1
	DeKalb	Violating	15.6
	Walton	Violating	15.6
	Clarke	Violating	15.6
	Oglethorpe	Violating	15.7
	Rockdale	Violating	15.7
	Newton	Violating	15.7
	Henry	Violating	15.7
	Butts	Violating	15.7
	Jasper	Violating	15.7

Figure 7.22 Harrisburg-Lebanon-Carlisle, PA PM2.5 Nonattainment Area

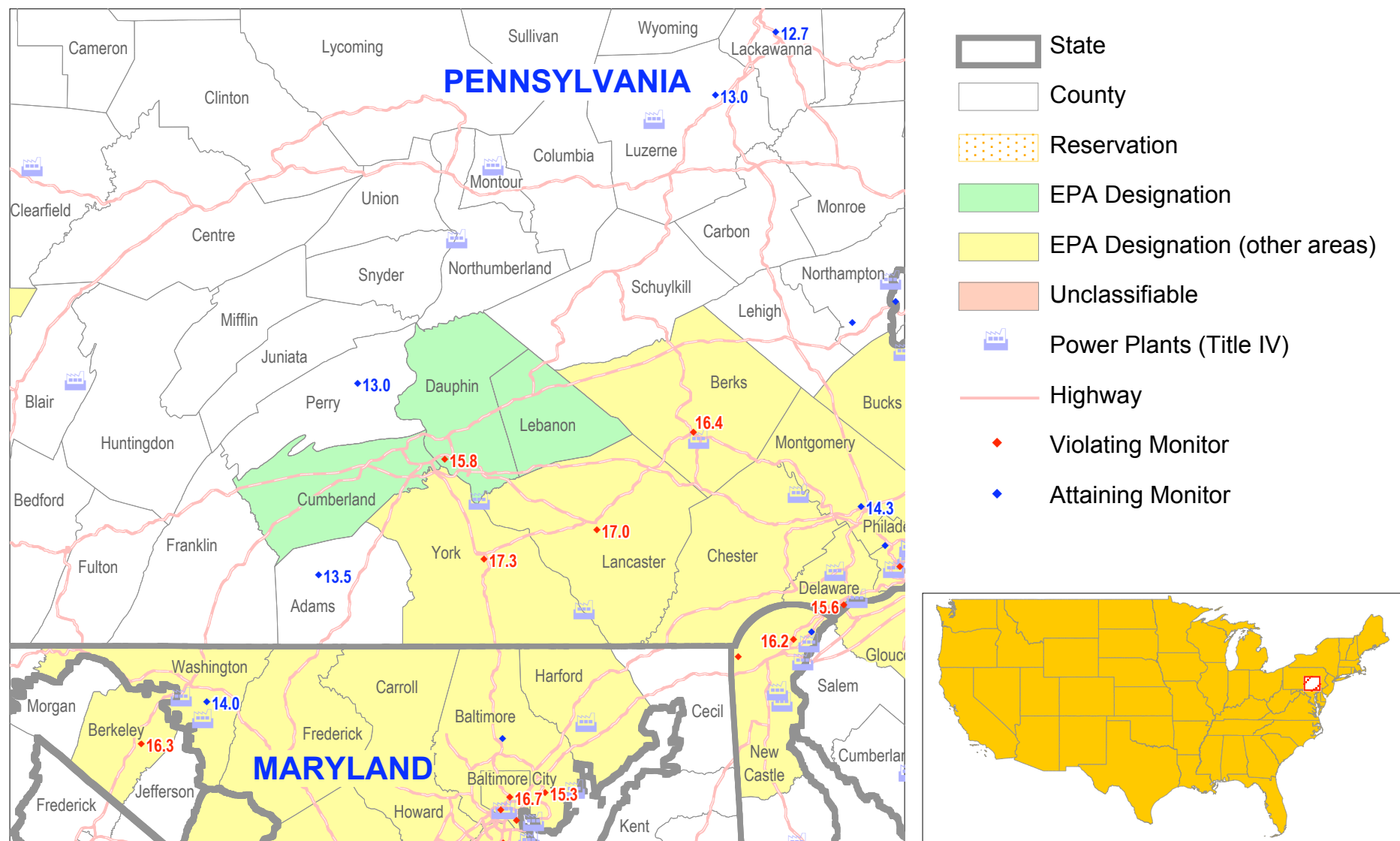


Figure 7.23 Hickory-Morganton-Lenoir, NC PM2.5 Nonattainment Area

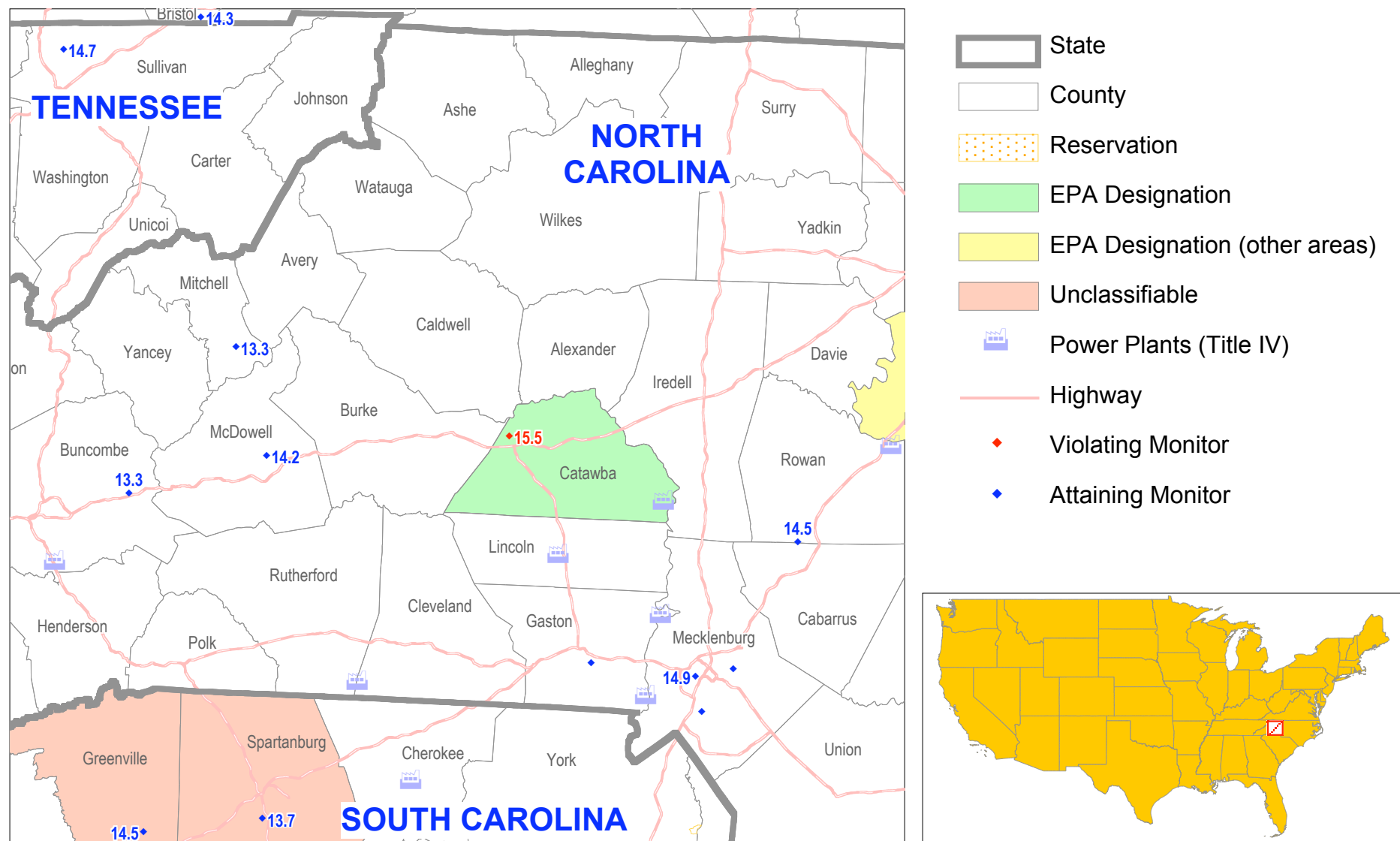


Figure 7.24 Huntington-Ashland, WV-KY-OH PM2.5 Nonattainment Area

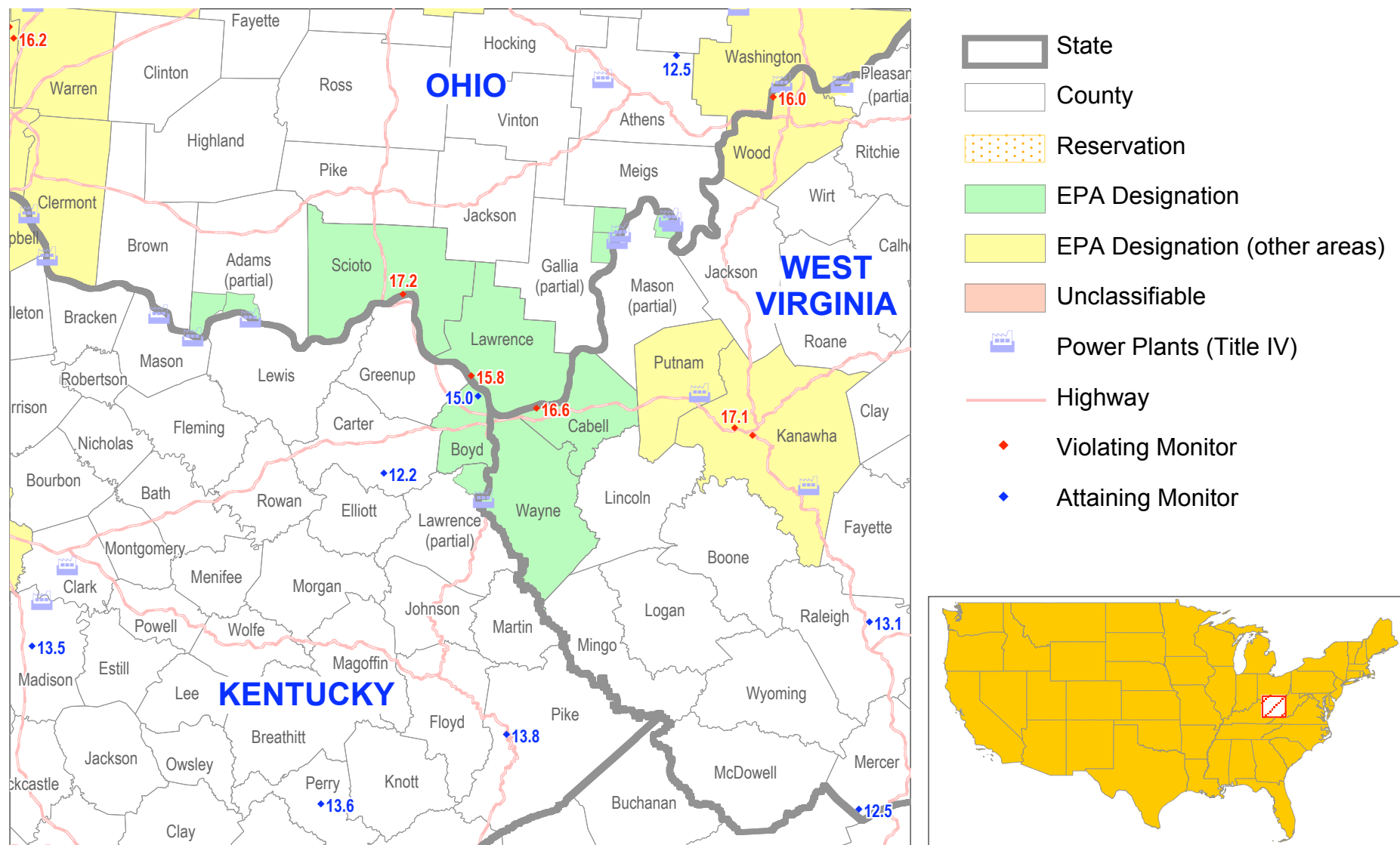


Figure 7.25 Indianapolis, IN PM2.5 Nonattainment Area

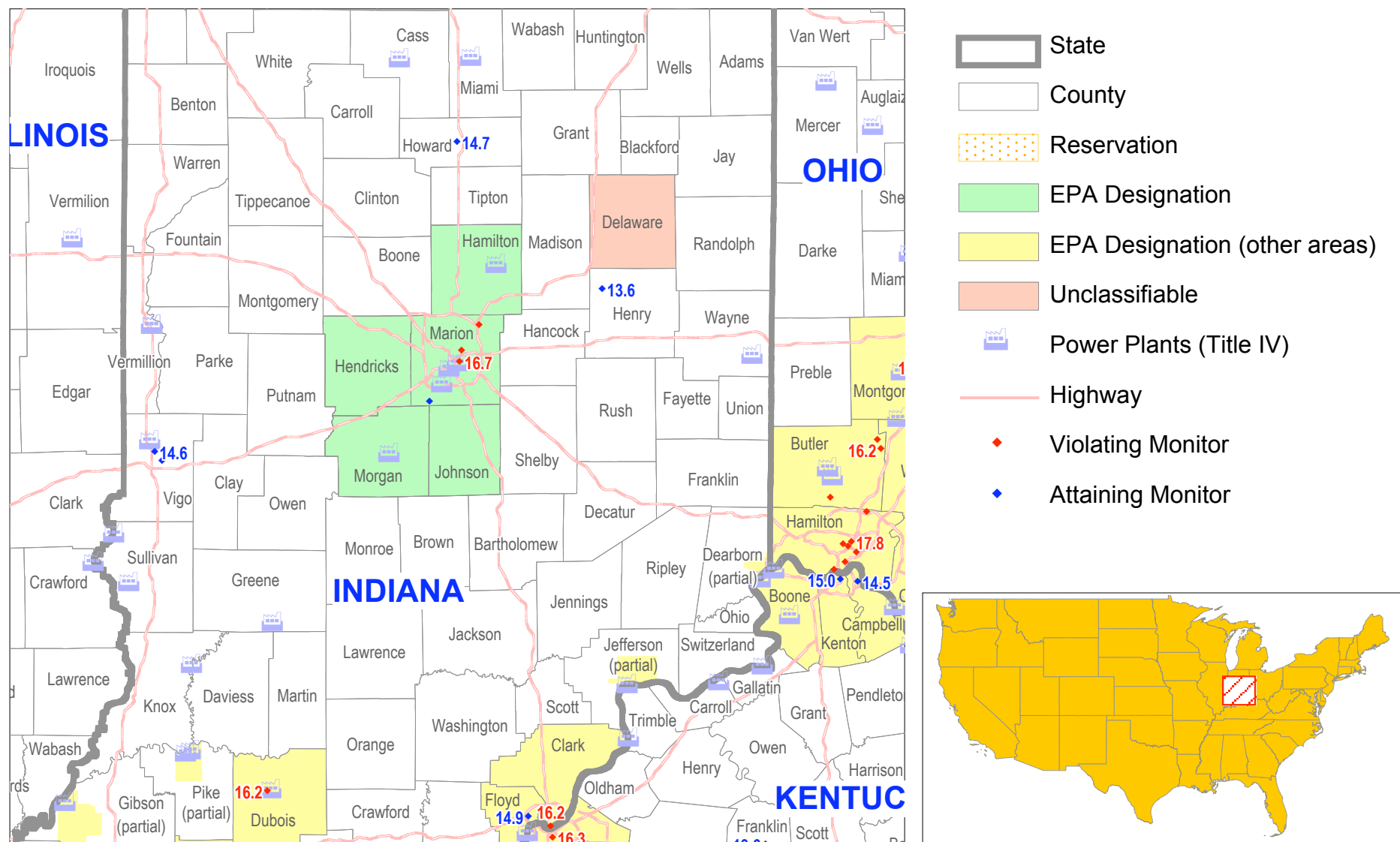


Figure 7.26 Johnstown, PA PM2.5 Nonattainment Area

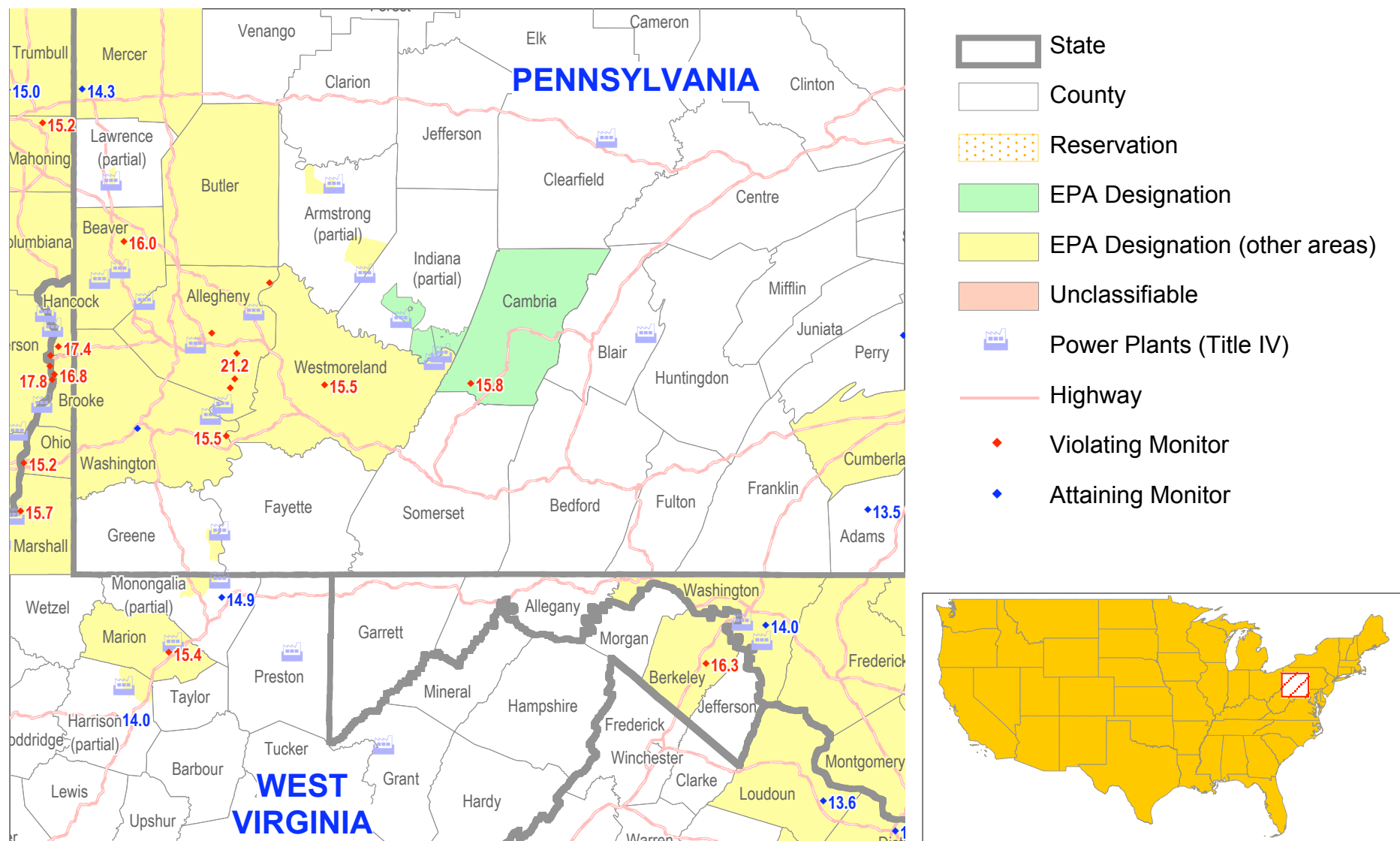


Figure 7.27 Knoxville, TN PM2.5 Nonattainment Area and McMinn County, TN
(Unclassifiable Area)

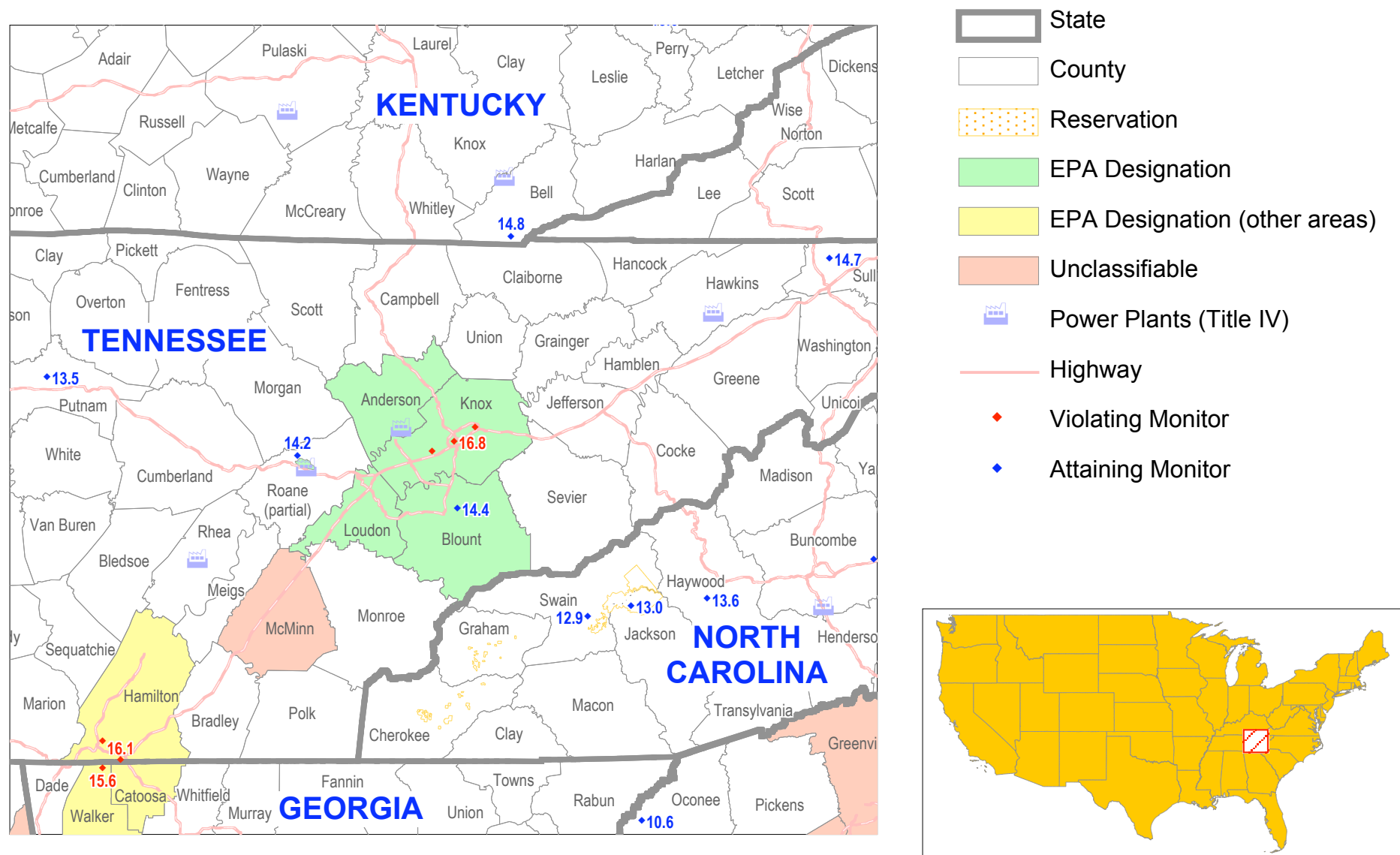


Figure 7.28 Lancaster, PA PM2.5 Nonattainment Area

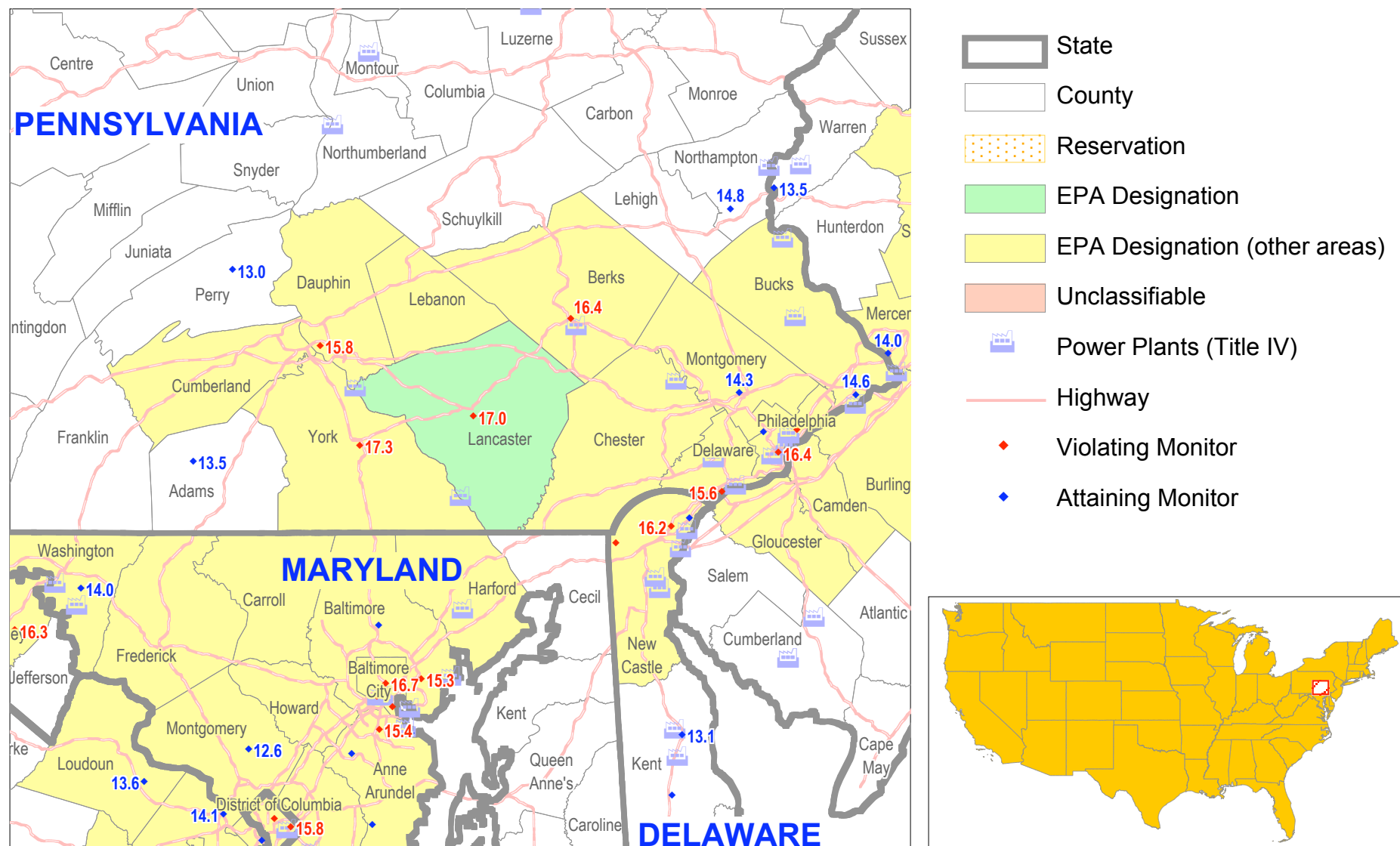


Figure 7.29 Lexington, KY PM2.5 Nonattainment Area

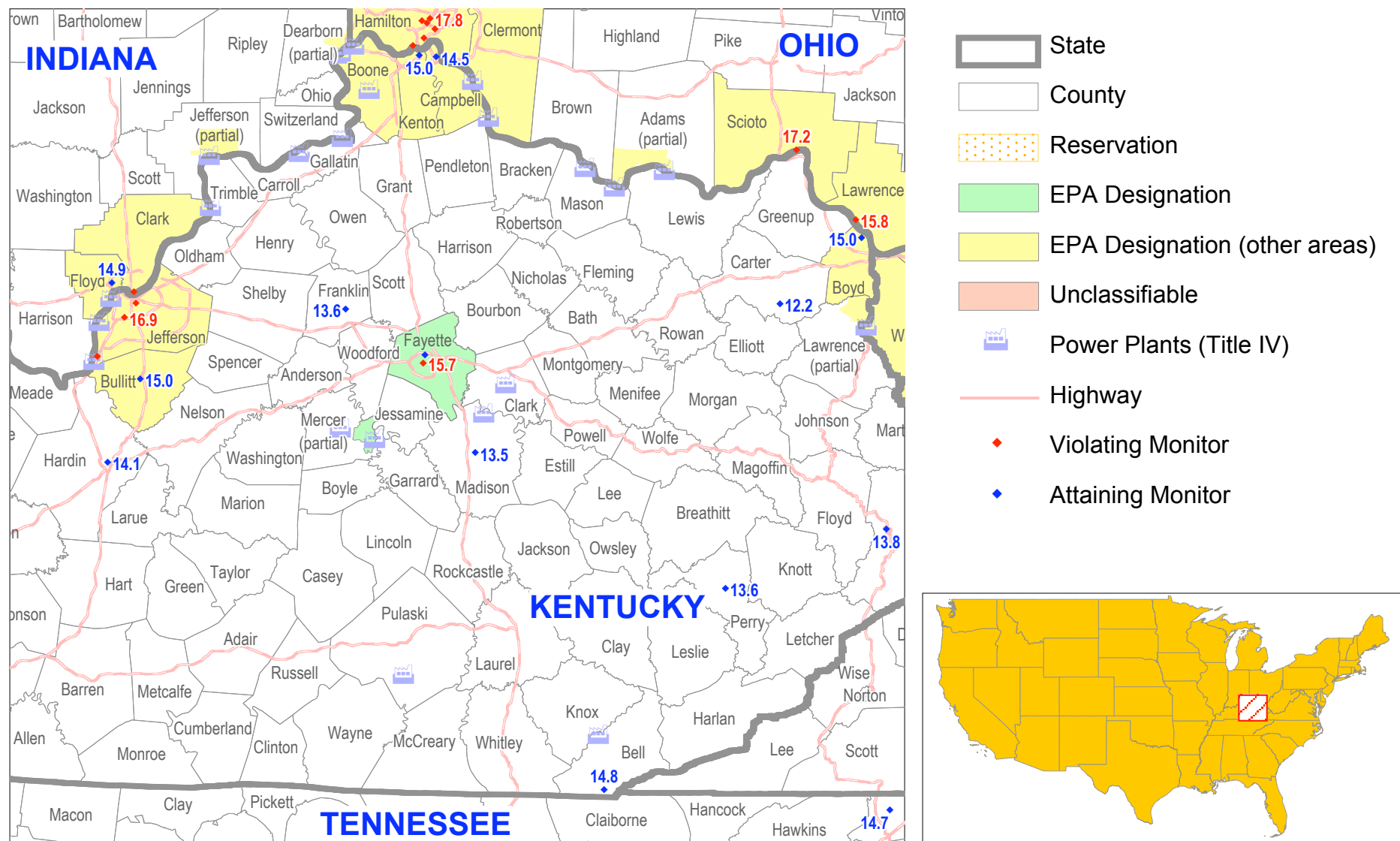


Figure 7.30 Libby, MT PM2.5 Nonattainment Area

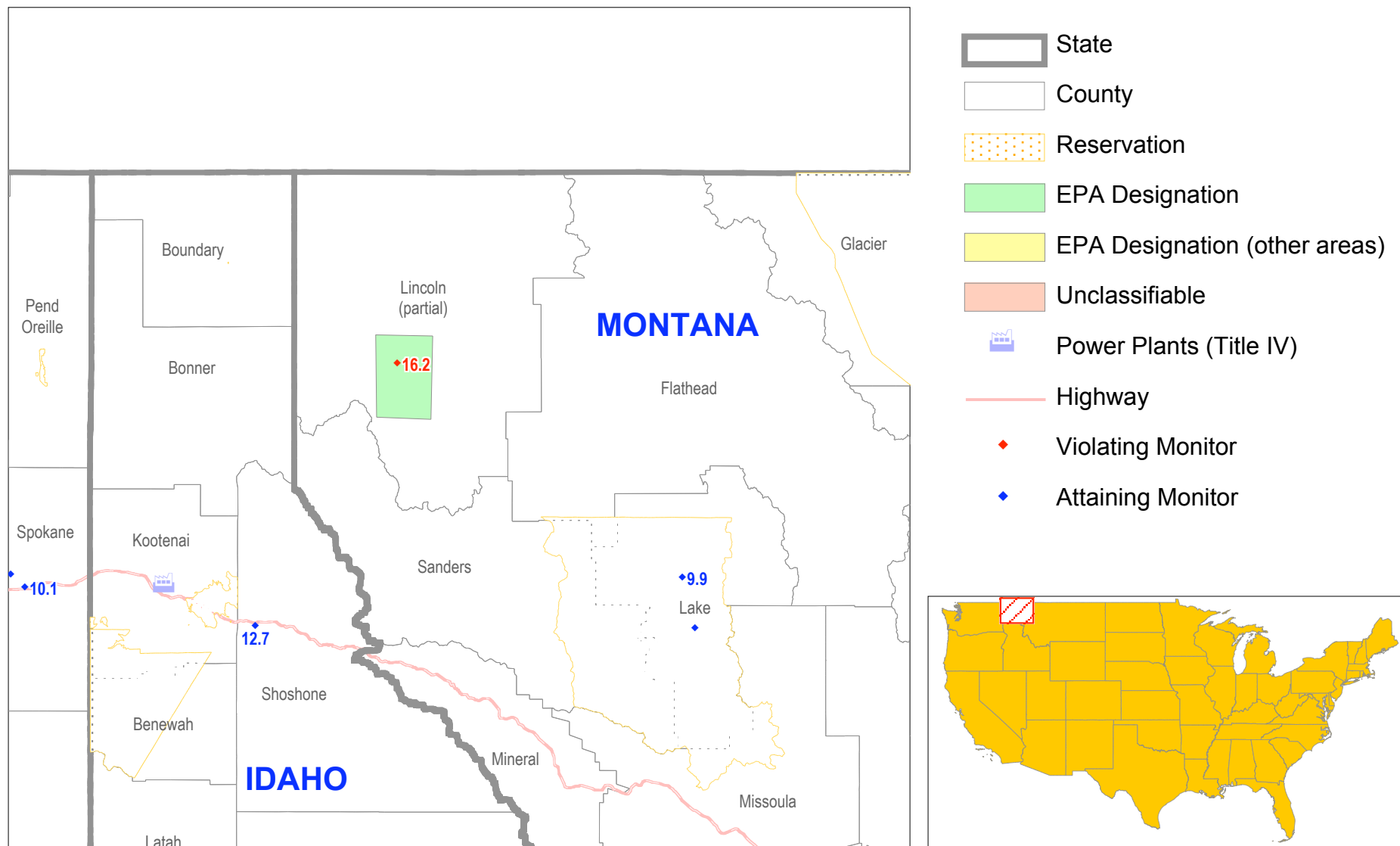
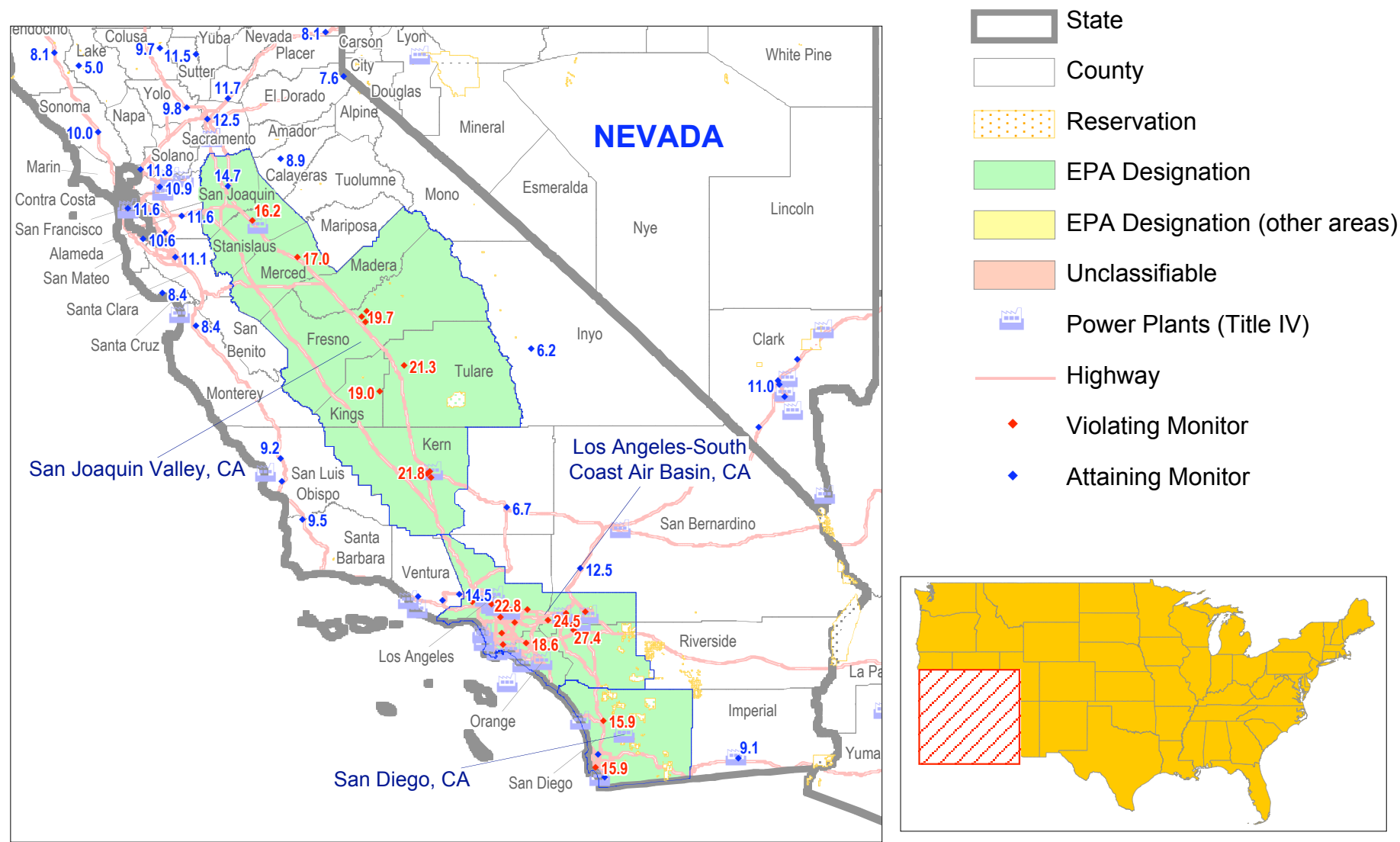


Figure 7.31 Los Angeles-South Coast Air Basin, CA; San Diego, CA; and San Joaquin Valley, CA PM2.5 Nonattainment Areas



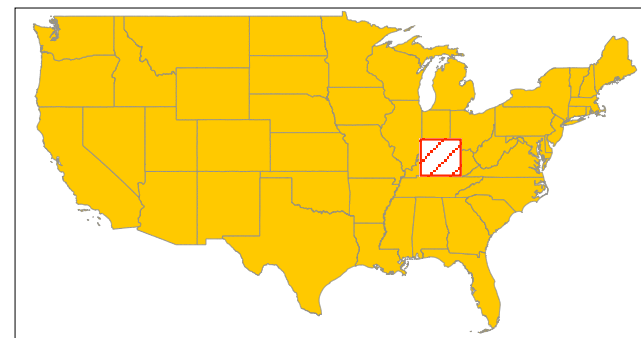


Figure 7.33 Macon, GA PM2.5 Nonattainment Area

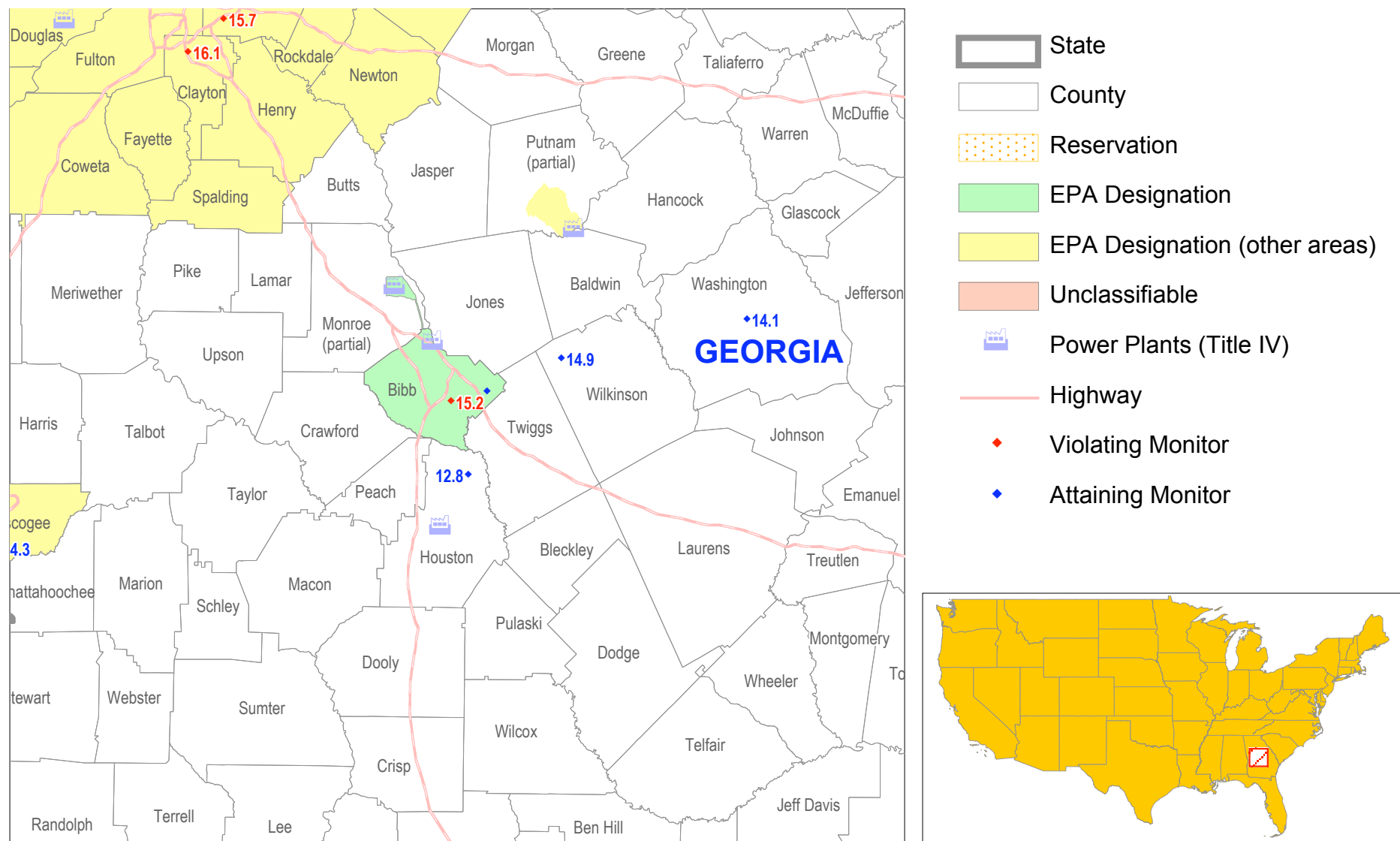
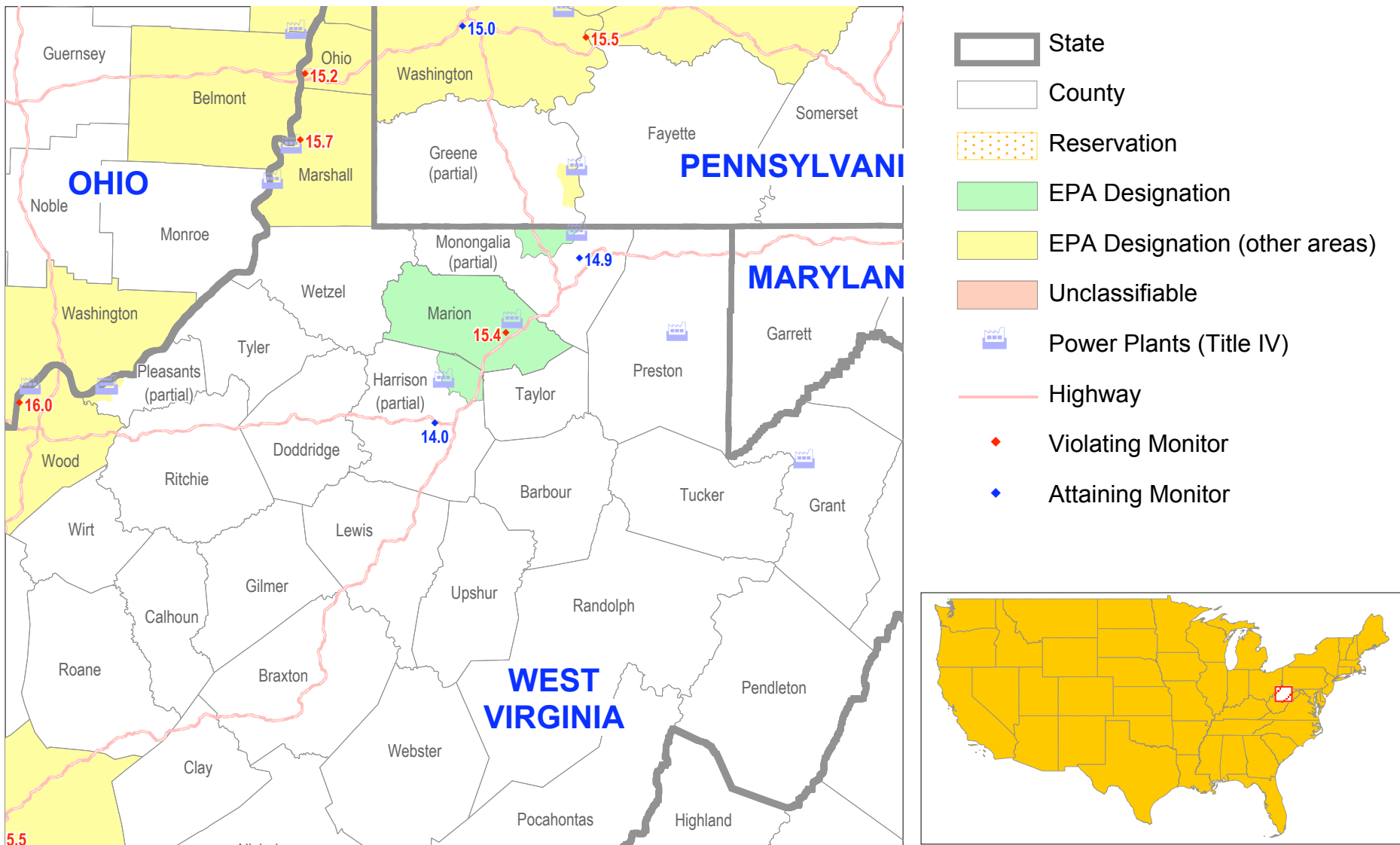


Figure 7.34 Marion County, WV (aka Fairmont CBSA) PM2.5 Nonattainment Area



This map displays the Washington, D.C. metropolitan area and surrounding regions in Pennsylvania, Maryland, West Virginia, and Virginia. It highlights ozone levels at various monitoring stations, with red diamonds indicating violators and blue diamonds indicating stations that are attaining the standard. The map also shows EPA Designation areas, with green indicating attainment and yellow indicating other areas. A legend on the right explains the symbols used: State (thick grey line), County (thin grey line), Reservation (dotted orange box), EPA Designation (green box), EPA Designation (other areas) (yellow box), Unclassifiable (orange box), Power Plants (Title IV) (blue square with 'P'), Highway (red line), Violating Monitor (red diamond), and Attaining Monitor (blue diamond). An inset map of the United States in the bottom right corner shows the location of the study area in the Northeast.

Location	Ozone Level (ppb)	Monitor Type
Westmoreland, PA	15.5	Violating
Cambria, PA	15.8	Violating
York, PA	17.3	Violating
Adams, PA	13.5	Attaining
Dauphin, PA	15.8	Violating
Washington, DC	14.0	Attaining
Berkeley, DC	16.3	Violating
Jefferson, DC	14.0	Attaining
Frederick, MD	14.0	Attaining
Carroll, MD	14.0	Attaining
Baltimore, MD	16.7	Violating
Howard, MD	15.4	Violating
Montgomery, MD	12.6	Attaining
Loudoun, VA	13.6	Attaining
Prince William, VA	13.6	Attaining
Stafford, VA	13.6	Attaining
Charles, VA	13.6	Attaining
Calvert, VA	13.6	Attaining
Prince George's, MD	15.2	Violating
Arundel, MD	15.2	Violating
Anne Arundel, MD	15.2	Violating
Rockingham, VA	13.0	Attaining
Page, VA	13.0	Attaining
Harrisonburg, VA	13.0	Attaining
Madison, VA	13.0	Attaining
Culpeper, VA	13.0	Attaining
Rappahannock, VA	13.0	Attaining
Fauquier, VA	13.0	Attaining
Warren, VA	13.0	Attaining
Shenandoah, VA	13.0	Attaining
Pendleton, VA	13.0	Attaining
Grant, VA	13.0	Attaining
Hardy, VA	13.0	Attaining
Mineral, VA	13.0	Attaining
Frederick, MD	13.0	Attaining
Winchester, MD	13.0	Attaining
Clarke, MD	13.0	Attaining
Jefferson, MD	13.0	Attaining
Morgan, MD	13.0	Attaining
Allegany, MD	13.0	Attaining
Garrett, MD	13.0	Attaining

Figure 7.36 Muncie, IN (Unclassifiable Area)

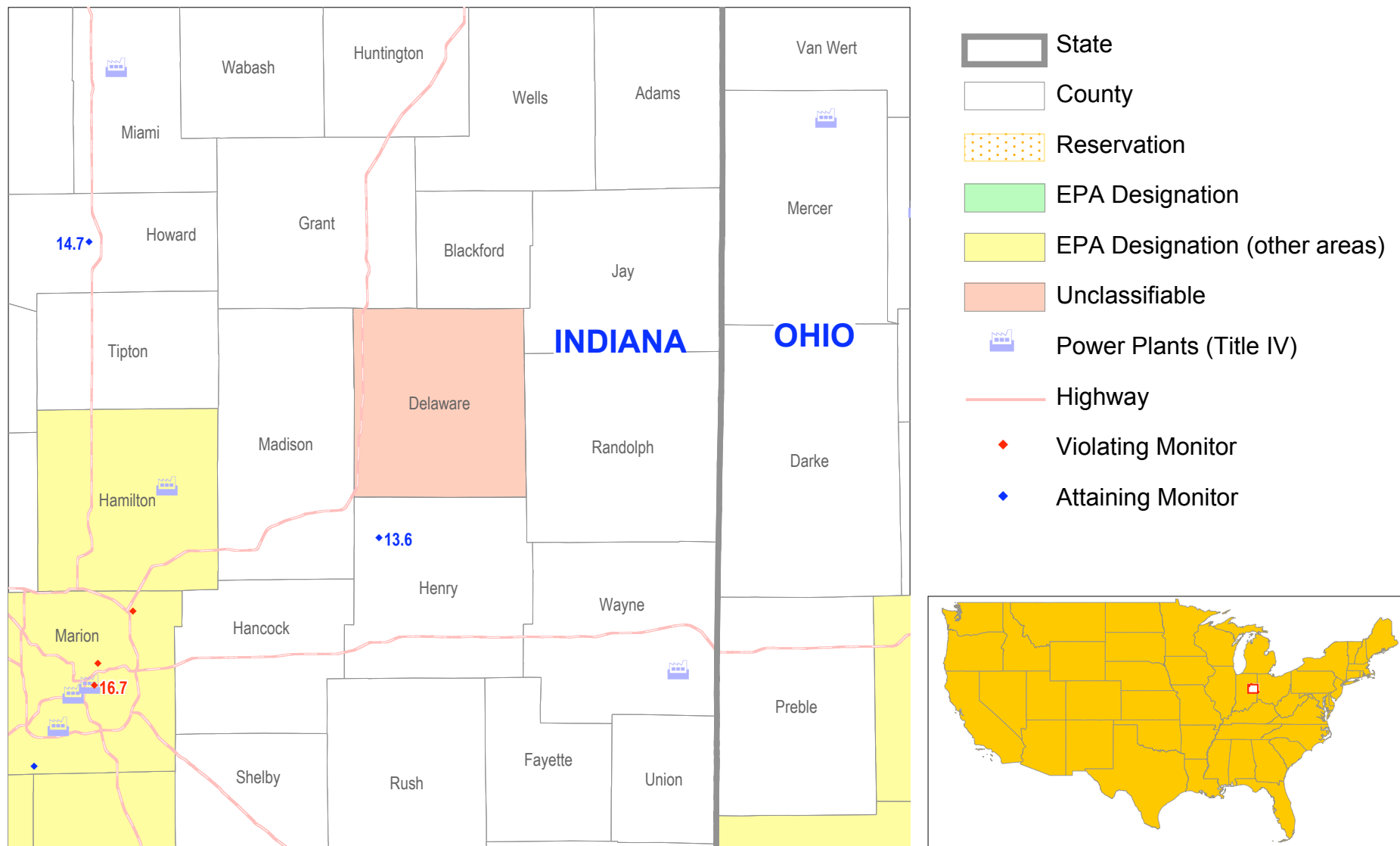


Figure 7.37 New York-N. New Jersey-Long Island, NY-NJ-CT PM2.5 Nonattainment Area

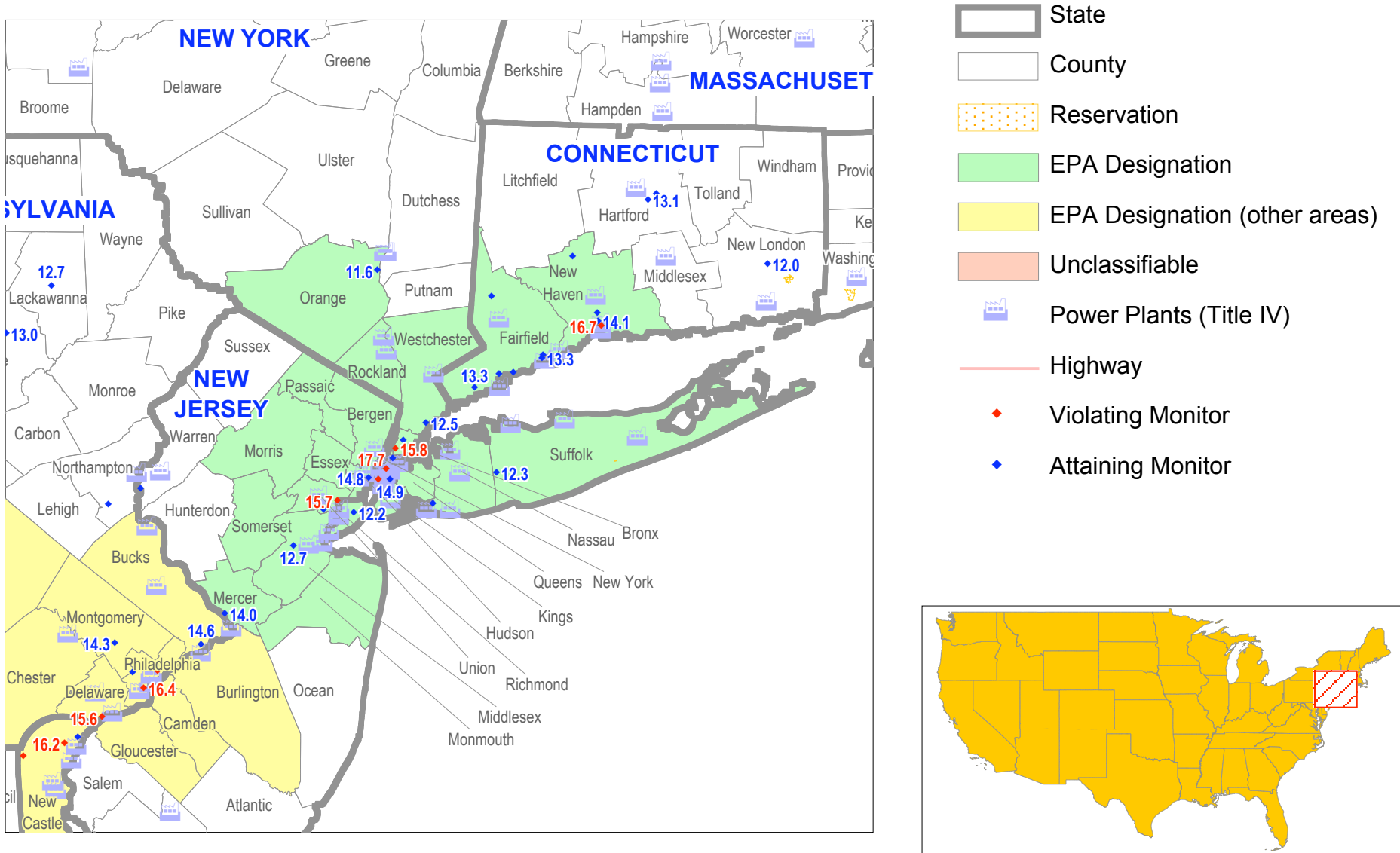


Figure 7.38 Parkersburg-Marietta, WV-OH PM2.5 Nonattainment Area

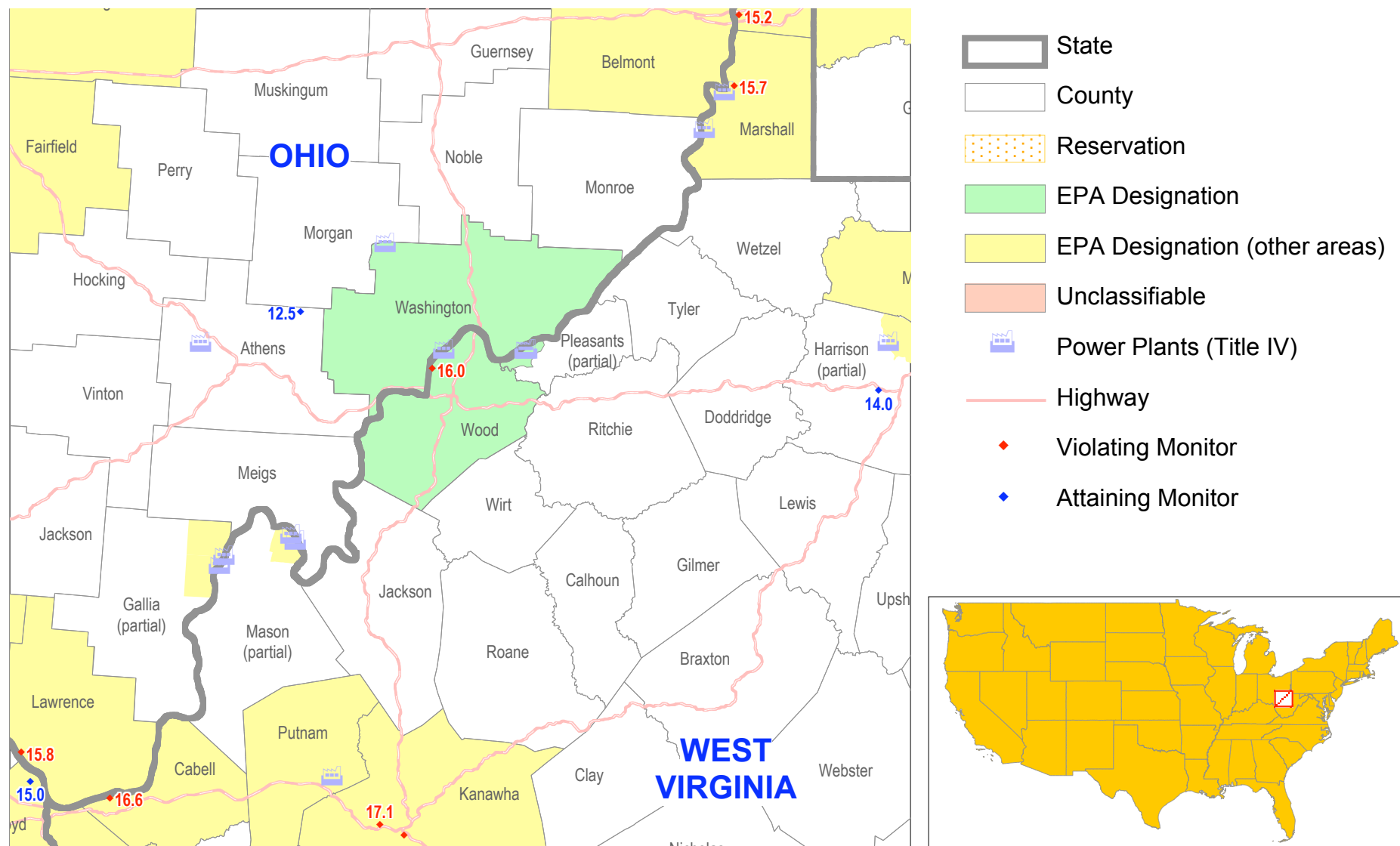


Figure 7.39 Philadelphia-Wilmington, PA-NJ-DE PM2.5 Nonattainment Area

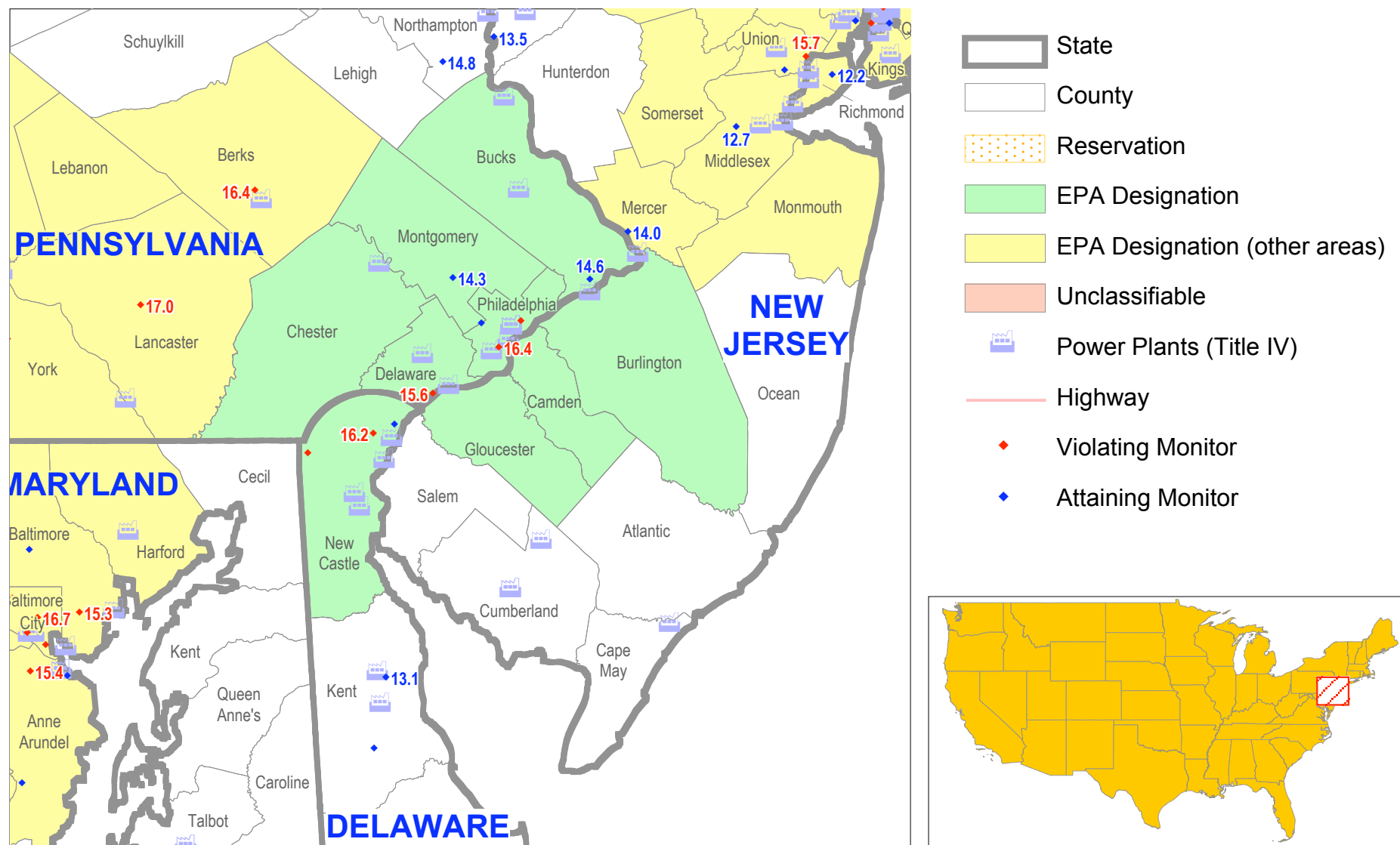


Figure 7.40 Pittsburgh-Beaver Valley, PA and Liberty-Clairton, PA PM2.5 Nonattainment Areas

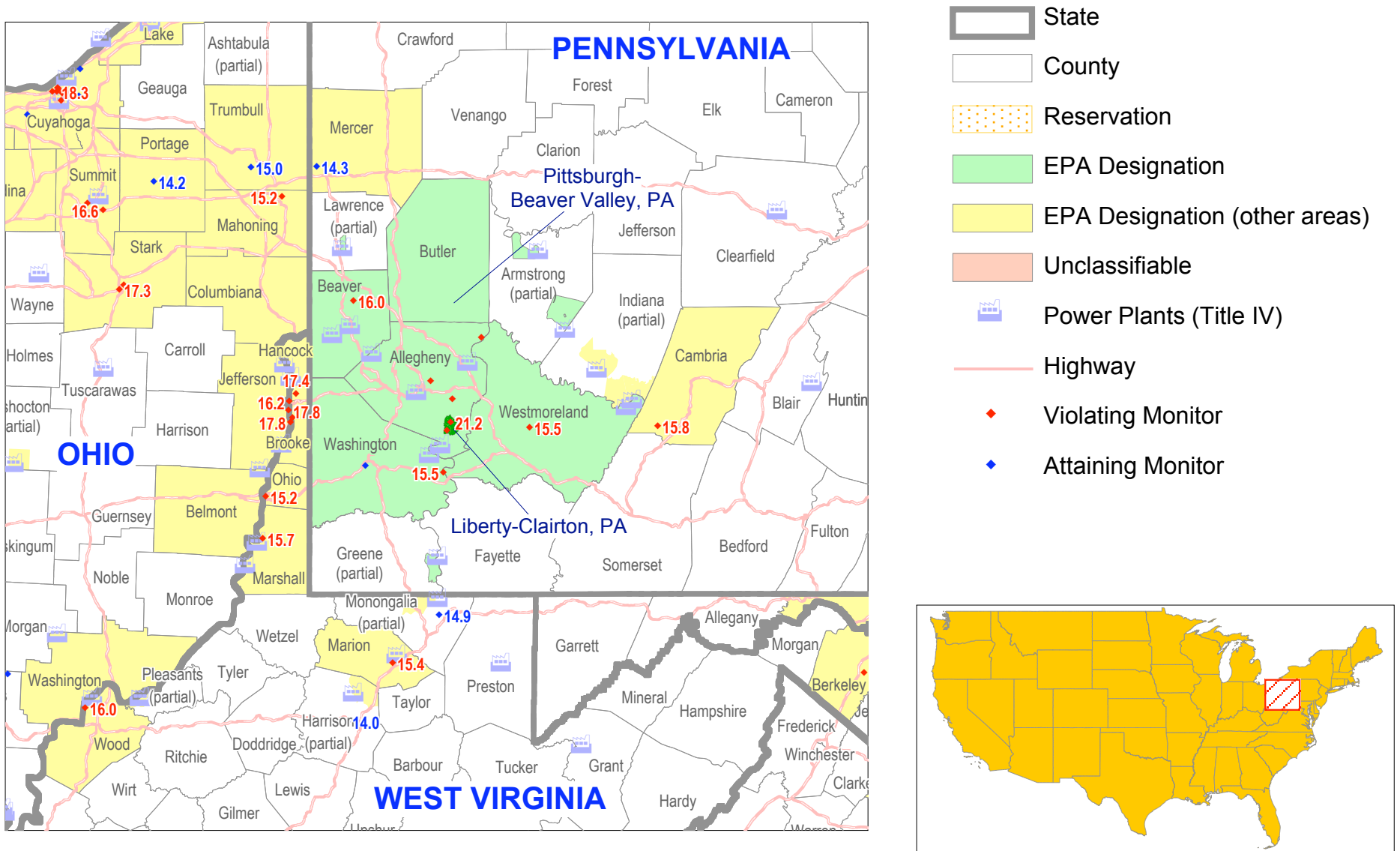
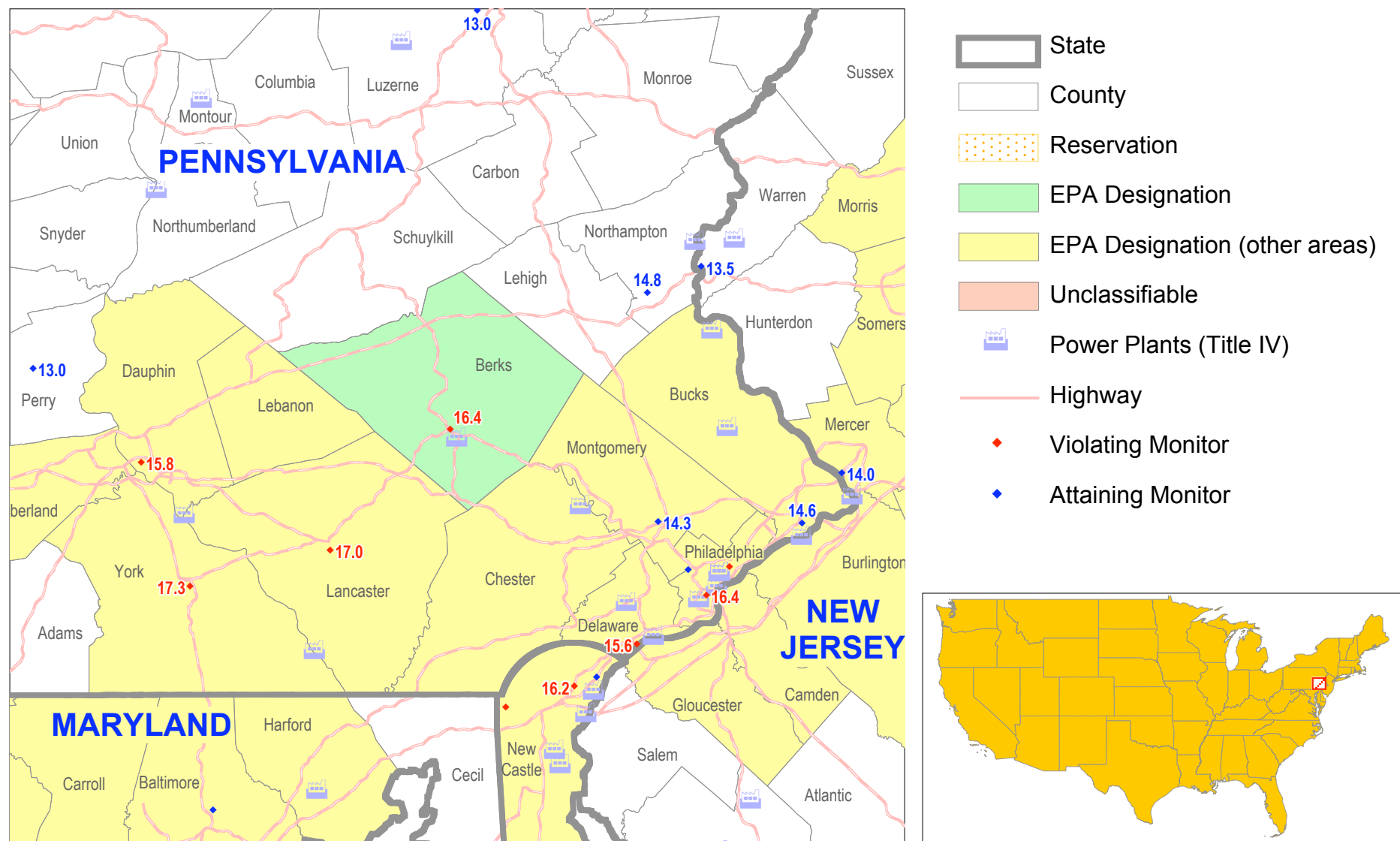


Figure 7.41 Reading, PA PM2.5 Nonattainment Area



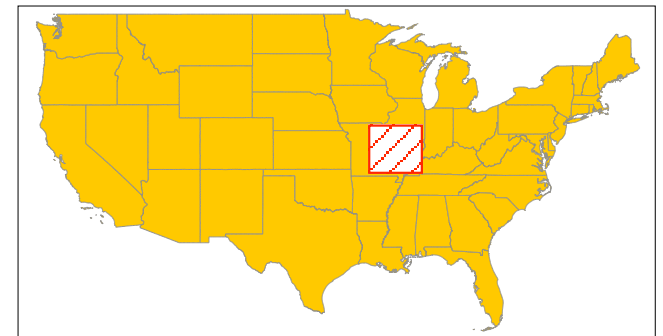
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Figure 7.43 Steubenville-Weirton, OH-WV PM2.5 Nonattainment Area

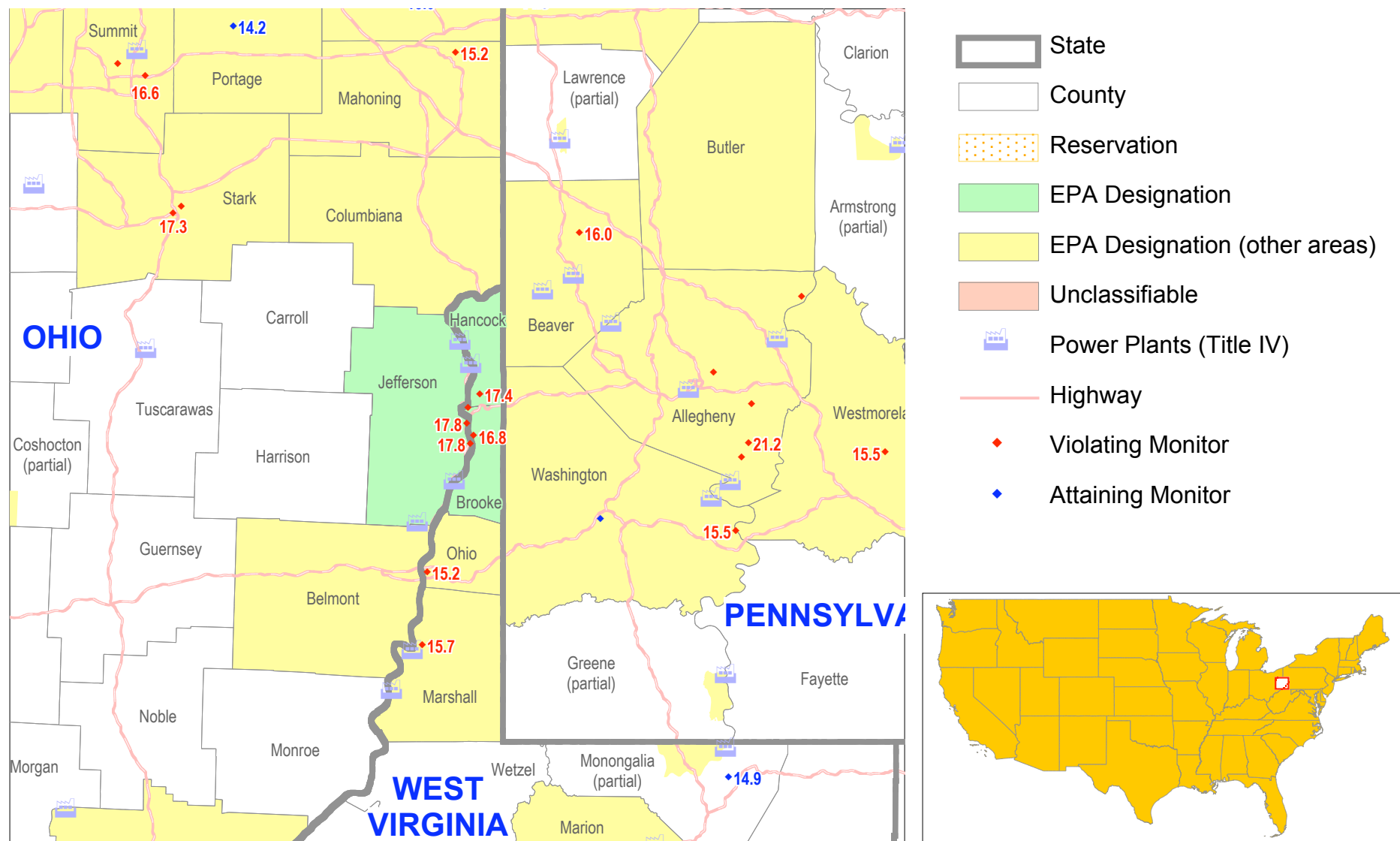


Figure 7.44 Toledo, OH PM2.5 Nonattainment Area

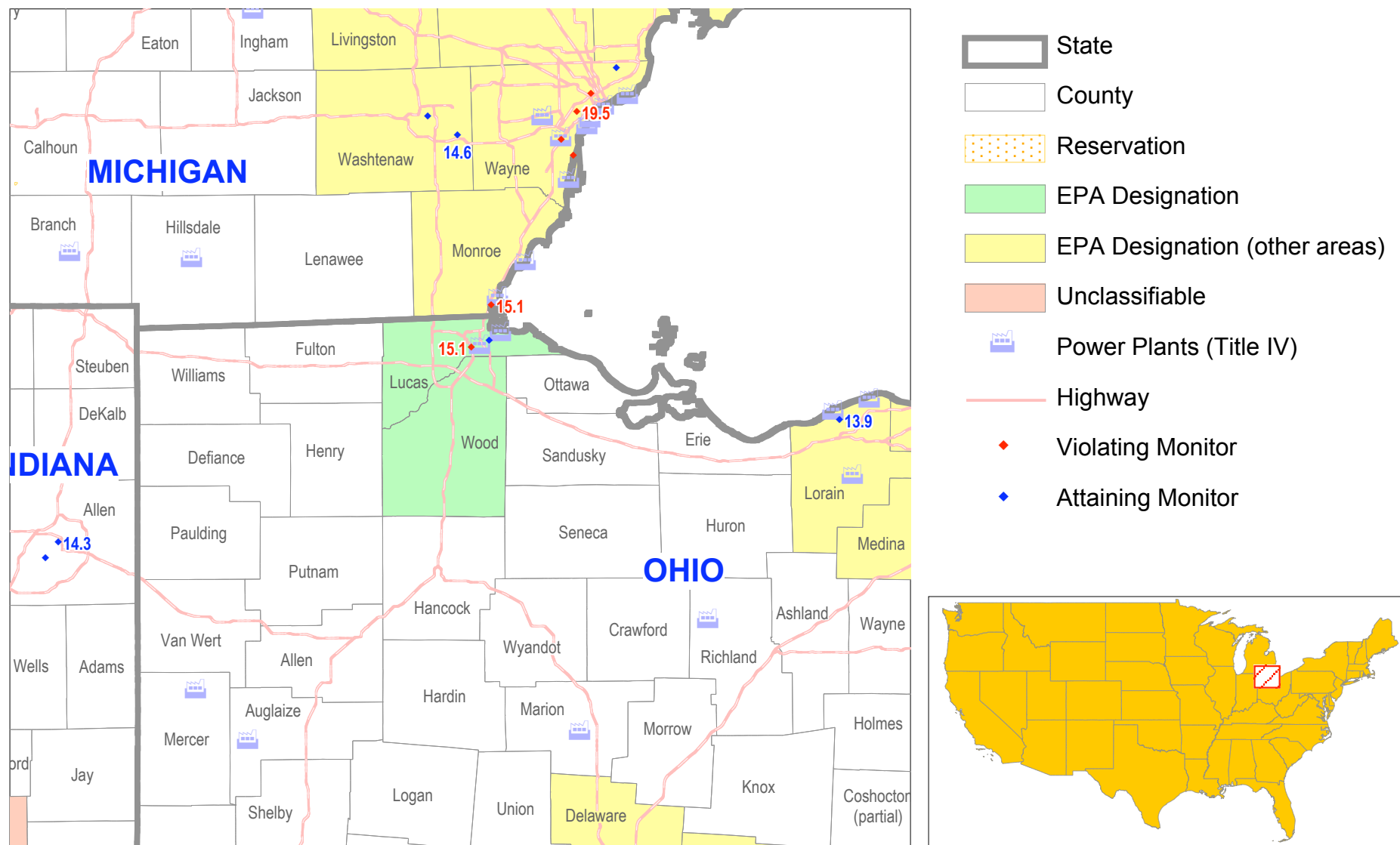


Figure 7.45 Washington, DC-MD-VA PM2.5 Nonattainment Area

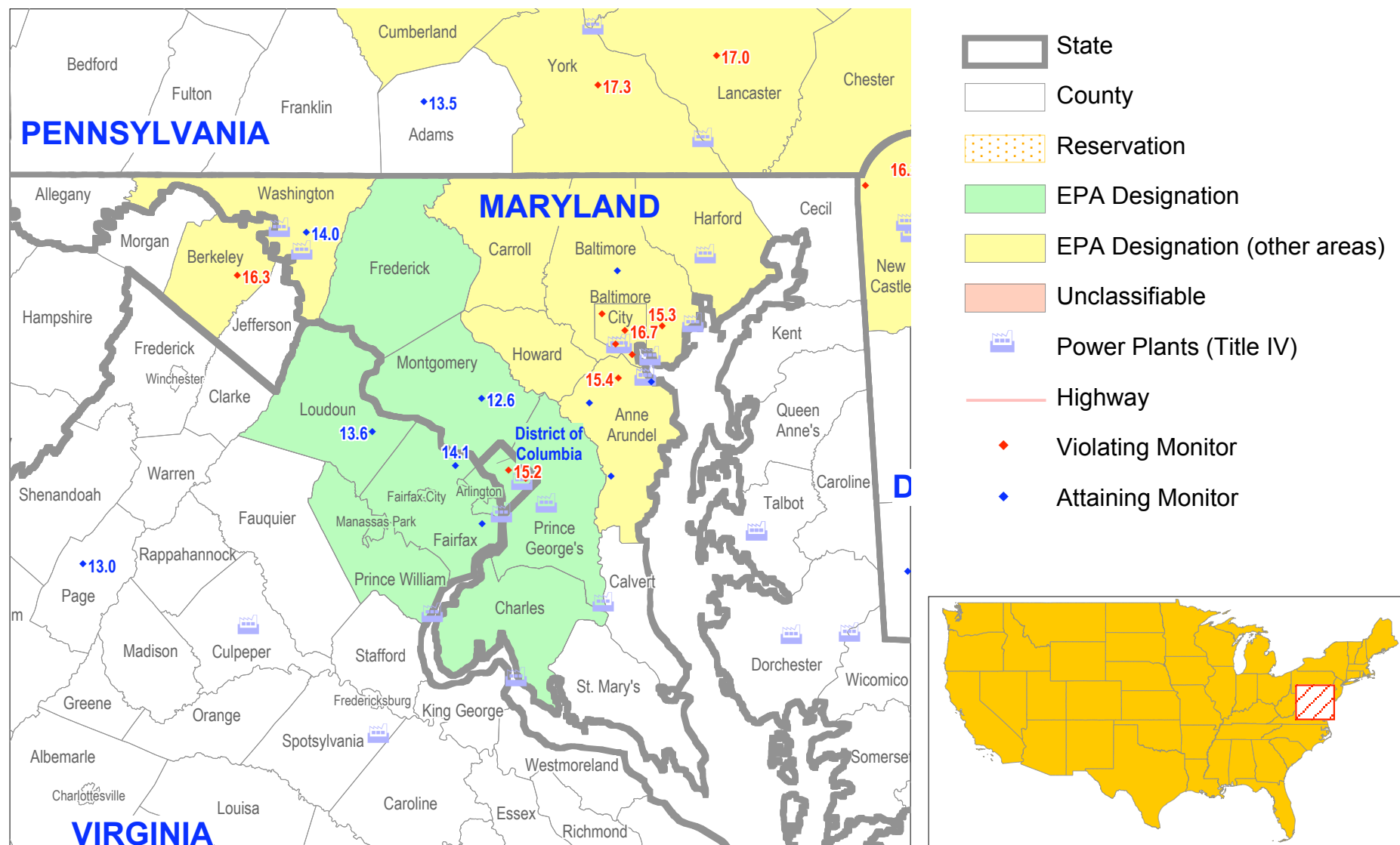


Figure 7.46 Wheeling, WV-OH PM2.5 Nonattainment Area

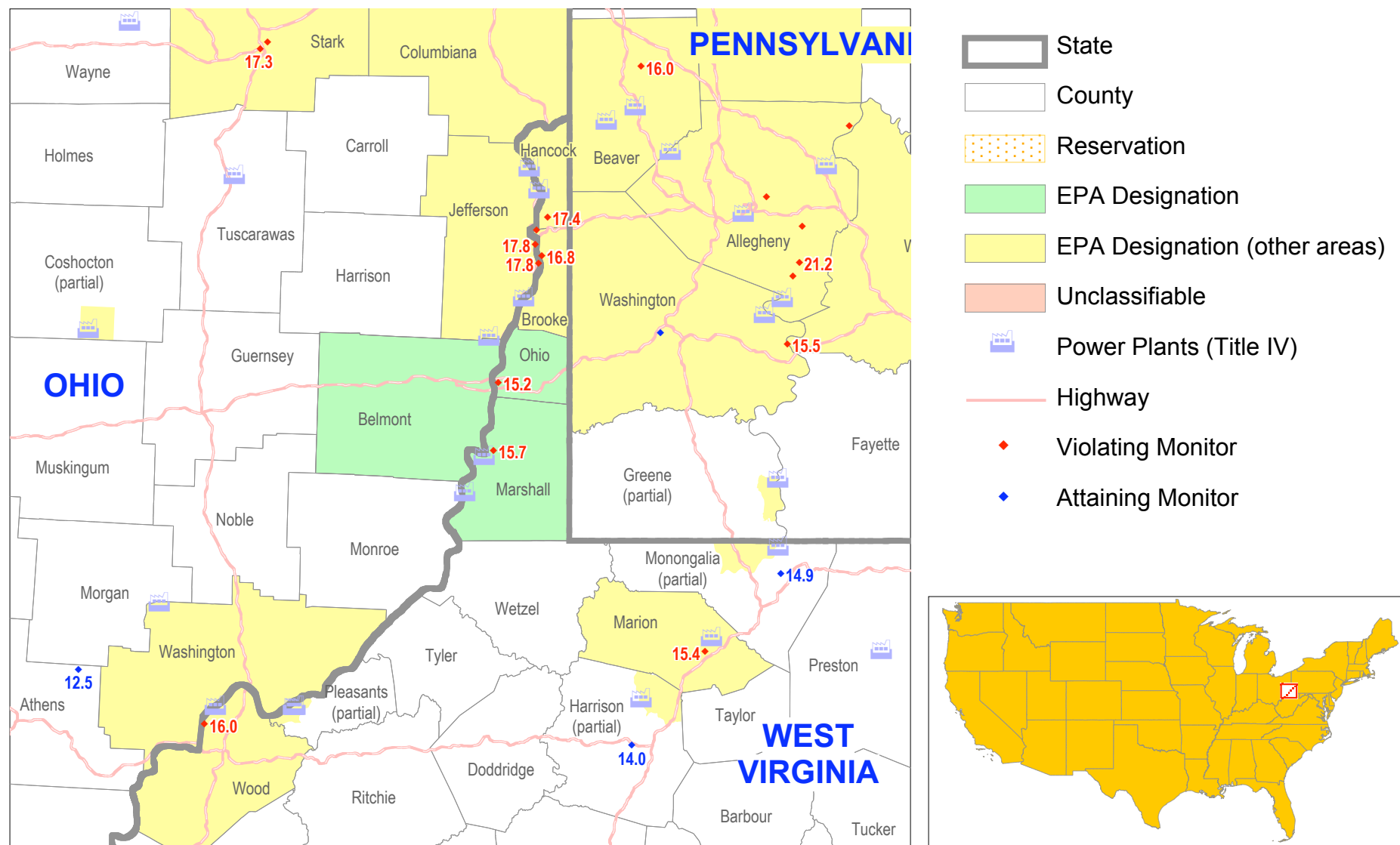


Figure 7.47 York, PA PM2.5 Nonattainment Area

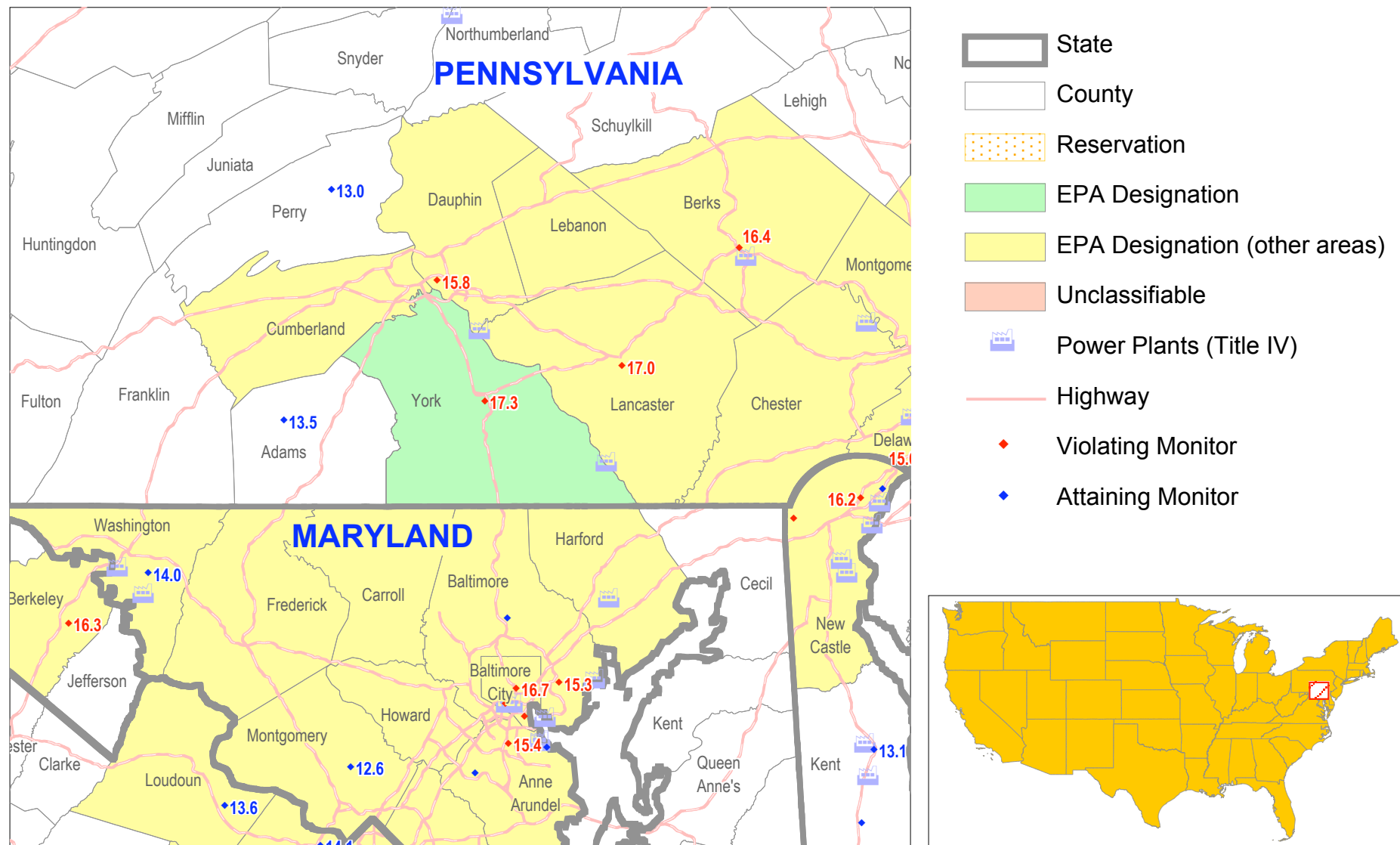


Figure 7.48 Youngstown-Warren-Sharon, OH-PA PM_{2.5} Nonattainment Area

