Iowa Environmental Public Health Tracking Network

Nationally Consistent Data Measures for Air Quality – Monitor Only

County Level Daily PM2.5 National Ambient Air Quality Standard Exceedences Year 2005

Presented below are data that represent the nationally consistent data measures related to monitored concentrations of PM2.5 in Iowa for the Year 2005:

PM2.5 includes fine particles that are between 0.1 micrometers and 2.5 micrometers in diameter. Particles of this size may cause health problems because their size allows them to be inhaled into the deep parts of your lungs.

Air Quality Monitors are not present in all counties. The Iowa DNR manages the Iowa Ambient Air Monitoring Network, and provides this data for use on the Iowa Environmental Health Tracking Network.

The National Ambient Air Quality Standards (NAAQS) are criteria set by the EPA to regulate sources of air pollution. The daily standard for PM2.5 is 35 micrograms per cubic meter (µg/m^3).

This report contains the following NCDMs at the County Level

1. Measures related to exceeding the NAAQS
    - Monitored Percent of days with PM2.5 levels over the NAAQS
    - Monitored Number of days with PM2.5 levels over the NAAQS
    - Monitored Number of Person-Days with PM2.5 levels over the NAAQS

Person-Days is a measure of exposure that is calculated by multiplying the number of days an exposure is present and the population exposed. For this measure Persons-Days uses the County Population estimate for population exposed.

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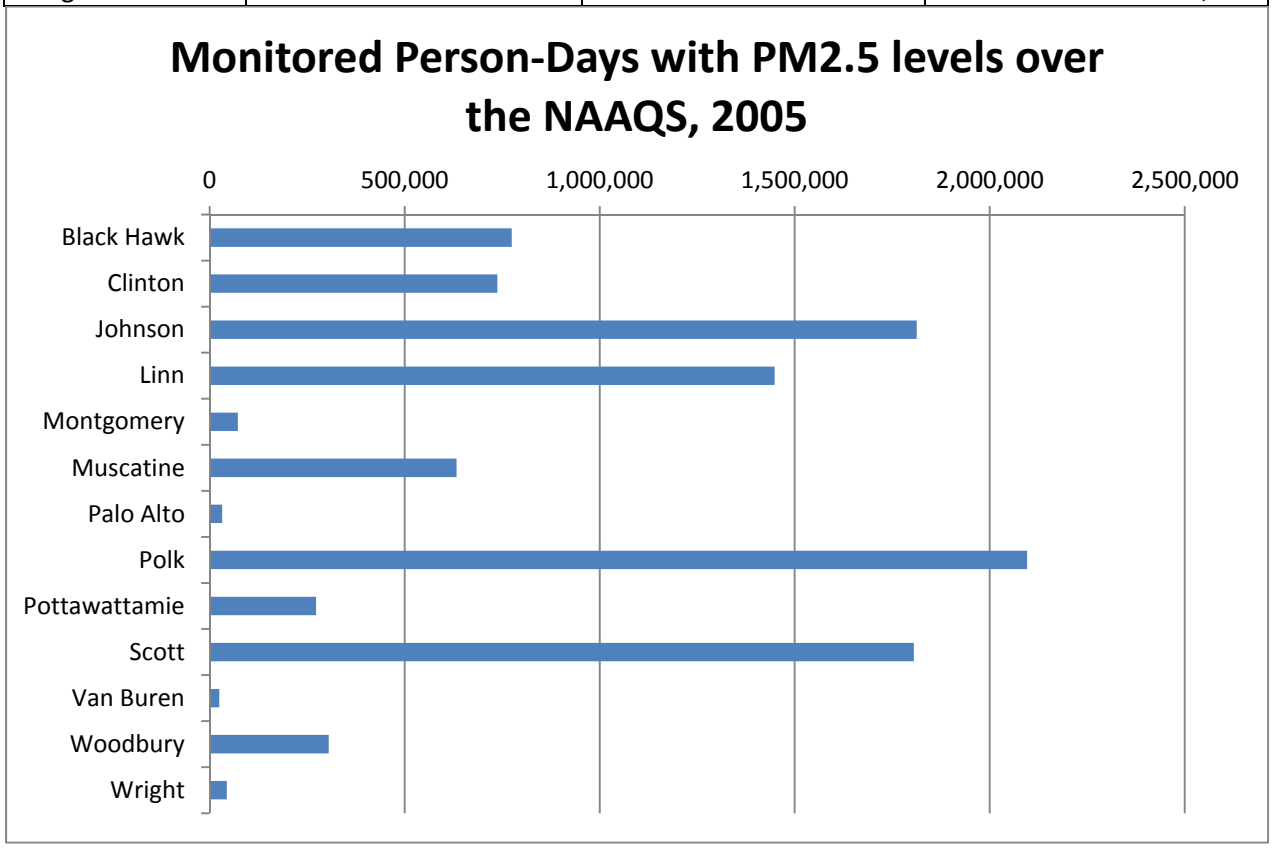
1. Measures related to exceeding the Daily PM2.5 NAAQS (35 µg/m^3) at the County level for monitored counties for 2005.

Monitored Daily PM2.5 levels over the NAAQS, 2005			
County	**Percent of Days Over the NAAQS**	**Number of Days Over the NAAQS**	**Person-Days Over the NAAQS**
Black Hawk	1.7	6	774,382
Clinton	4.1	15	737,464
Johnson	4.1	15	1,812,898
Linn	2	7	1,448,417
Montgomery	1.8	7	72,205
Muscatine	4.1	15	632,747
Palo Alto	0.9	3	31,751
Polk	1.4	5	2,096,106
Pottawattamie	0.8	3	272,860
Scott	3.1	11	1,805,317
Van Buren	0.9	3	24,629
Woodbury	0.8	3	305,305
Wright	0.9	3	43,594



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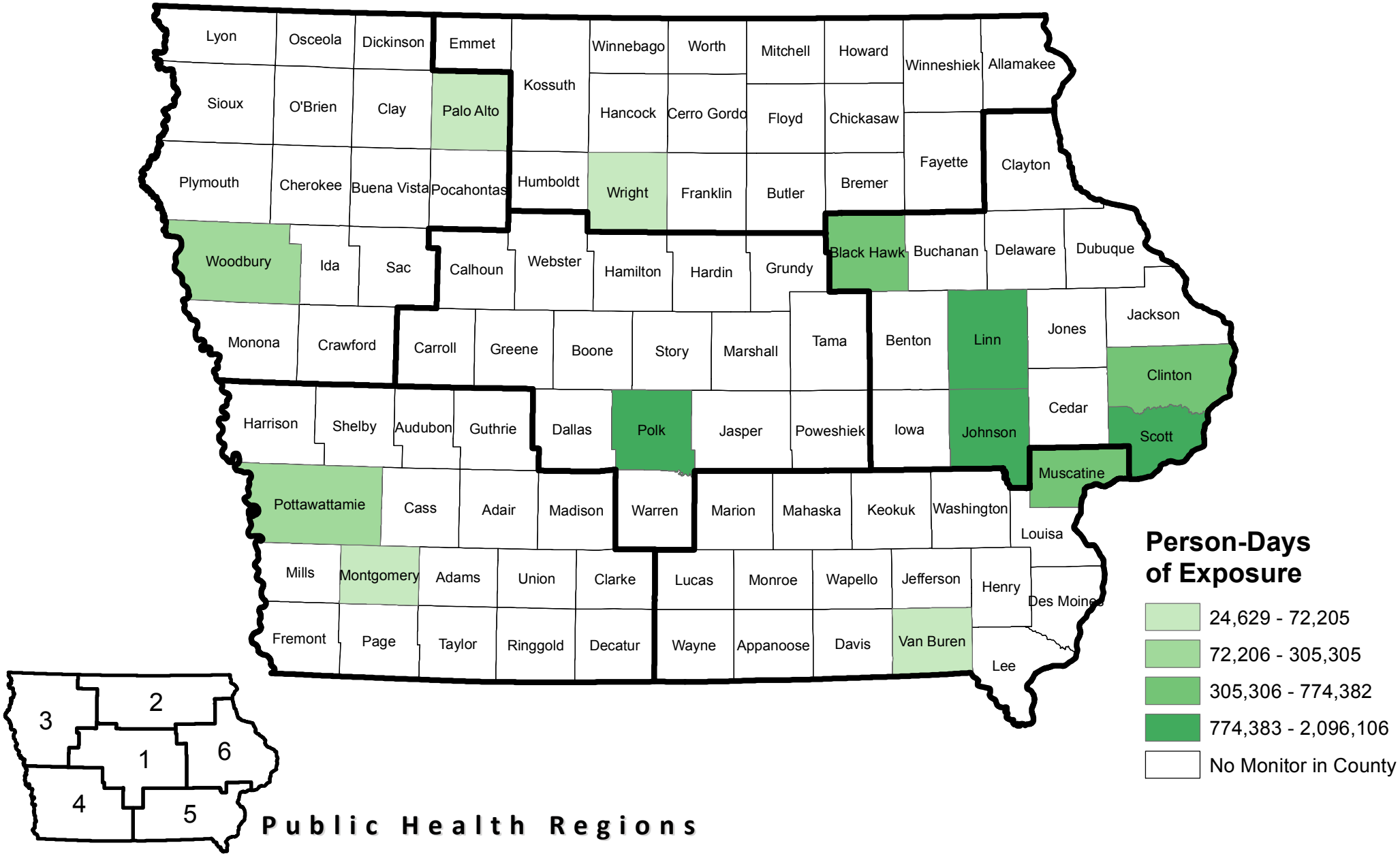
Monitored Number of Person-Days with PM2.5 Level Above the NAAQS of 35 micrograms per cubic meter 2005