Iowa Environmental Public Health Tracking Network

Nationally Consistent Data Measures for Air Quality - Modeled

County Level Daily PM2.5 National Ambient Air Quality Standard Exceedences Year 2006

Presented below are data that represent the nationally consistent data measures related to modeled concentrations of PM2.5 in Iowa for the Year 2006:

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, by modeling data we can generate measures for counties without monitors. Modeled data is developed and provided by the National Environmental Public Health Tracking Network in collaboration with the U.S. Environmental Protection Agency.

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
    - Modeled Percent of days with PM2.5 levels over the NAAQS
    - Modeled Number of days with PM2.5 levels over the NAAQS
    - Modeled 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. Modeled measures related to exceeding the Daily PM2.5 NAAQS (35 µg/m^3) at the County level for counties with a modeled exceedence for 2006. For counties not shown in the table below values for all three measures are zero.

Modeled Daily PM2.5 levels over the NAAQS, 2006			
County	**Percent of Days Over the NAAQS**	**Number of Days Over the NAAQS**	**Person-Days Over the NAAQS**
Allamakee	0.83	3	43,467
Benton	0.55	2	53,128
Black Hawk	0.55	2	254,010
Buchanan	0.55	2	41,688
Cedar	0.55	2	35,962
Clayton	0.83	3	53,325
Clinton	0.82	3	147,549
Delaware	0.83	3	52,533
Dubuque	0.55	2	182,796
Fayette	0.28	1	20,701
Grundy	0.28	1	12,237
Harrison	0.28	1	15,507
Iowa	0.55	2	31,914
Jackson	0.55	2	40,116
Johnson	0.55	2	246,252
Jones	0.55	2	40,662
Keokuk	0.28	1	10,774
Linn	0.55	2	404,976
Mahaska	0.28	1	22,153
Marshall	0.28	1	38,934
Monona	0.55	2	18,362
Palo Alto	0.27	1	9,455
Plymouth	0.28	1	24,485
Poweshiek	0.55	2	37,340
Scott	0.27	1	161,476
Tama	0.55	2	35,656
Washington	0.28	1	21,162
Winneshiek	0.28	1	20,847
Woodbury	0.27	1	101,796

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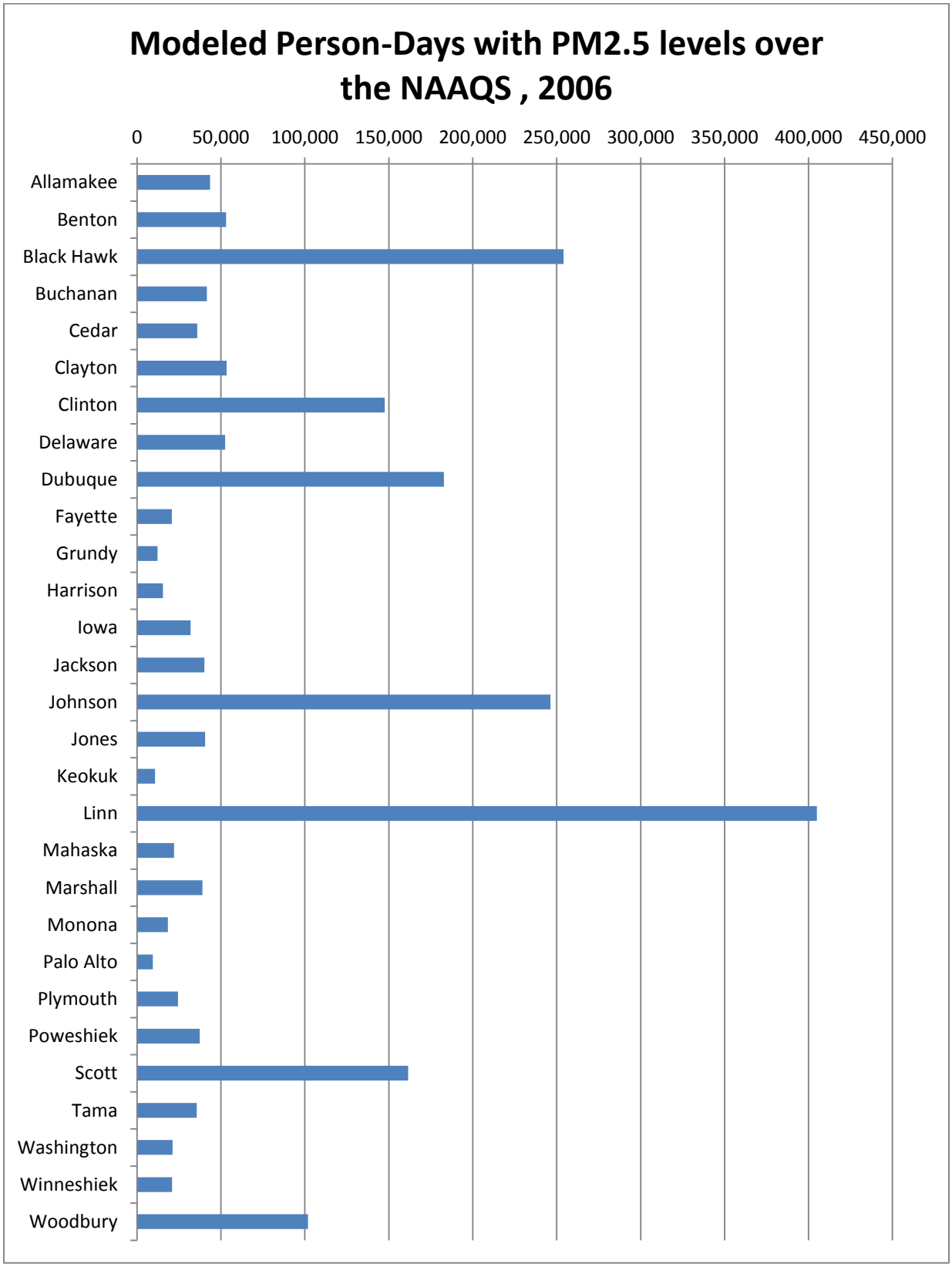

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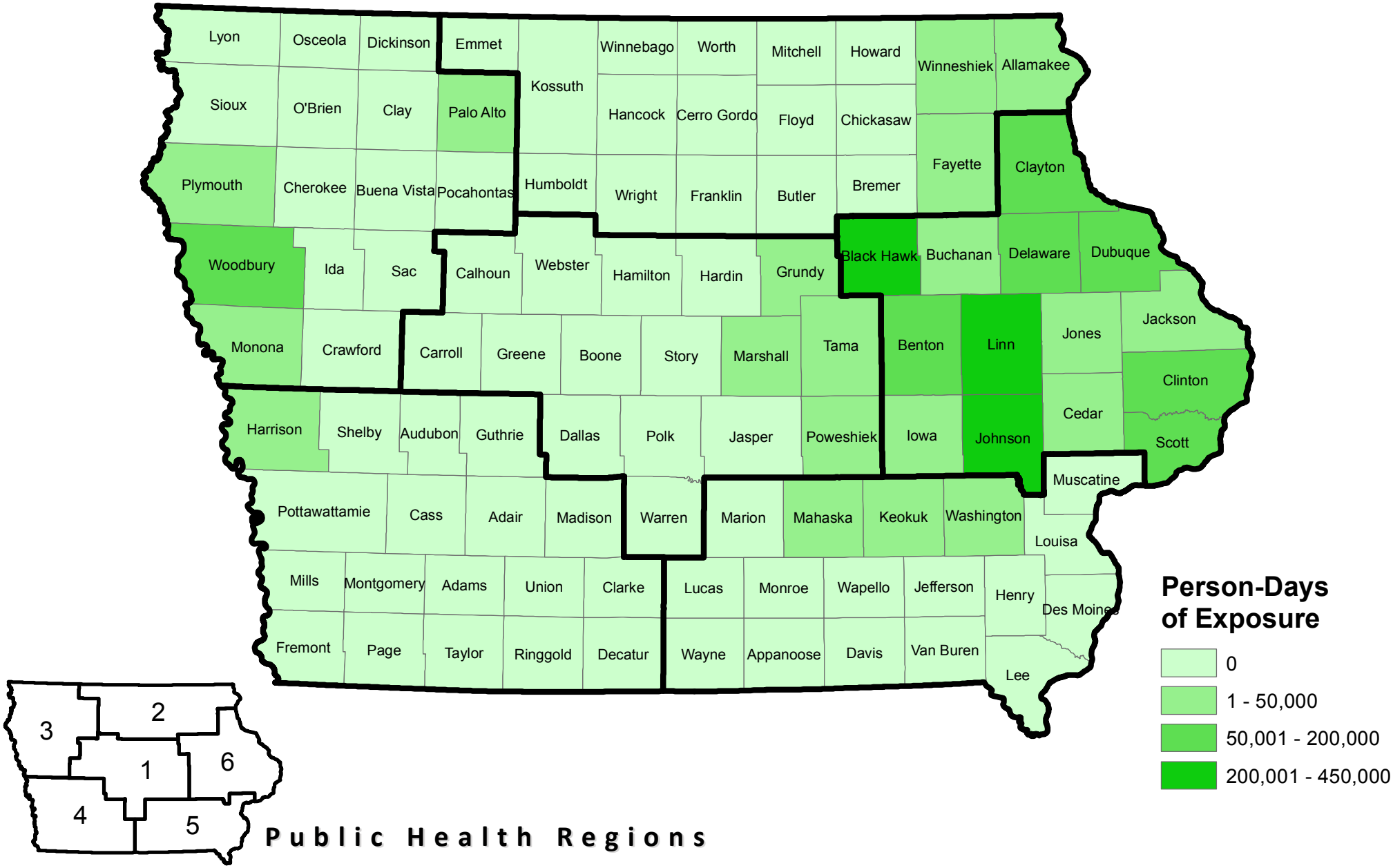
Modeled Number of Person-Days with PM2.5 Level Above the NAAQS of 35 micrograms per cubic meter 2006