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 2003

Presented below are data that represent the nationally consistent data measures related to modeled concentrations of PM2.5 in Iowa for the Year 2003:

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 2003. For counties not shown in the table below values for all three measures are zero.

Modeled Daily PM2.5 levels over the NAAQS, 2003			
County	**Percent of Days Over the NAAQS**	**Number of Days Over the NAAQS**	**Person-Days Over the NAAQS**
Appanoose	0.28	1	13,457
Benton	0.28	1	26,174
Buchanan	0.28	1	20,774
Cedar	0.83	3	54,189
Clinton	1.10	4	197,884
Davis	0.28	1	8,498
Des Moines	0.55	2	82,264
Dubuque	0.55	2	180,218
Fremont	0.55	2	15,428
Henry	0.55	2	40,212
Iowa	0.28	1	15,836
Jackson	0.28	1	20,107
Jasper	0.28	1	37,406
Jefferson	0.28	1	15,723
Johnson	1.10	4	469,840
Jones	0.55	2	40,434
Keokuk	0.28	1	11,198
Lee	0.28	1	36,473
Linn	1.92	7	1,376,949
Louisa	1.10	4	48,704
Lucas	0.28	1	9,474
Mahaska	0.28	1	22,026
Marion	0.28	1	32,279
Marshall	0.28	1	39,040
Mills	0.28	1	14,600
Monroe	0.28	1	7,805
Muscatine	1.93	7	291,718
Polk	0.82	3	1,170,924
Poweshiek	0.28	1	18,809
Scott	1.10	4	635,032
Tama	0.28	1	17,850
Van Buren	0.83	3	23,019
Wapello	0.28	1	35,720
Warren	0.28	1	41,963
Washington	0.55	2	42,016

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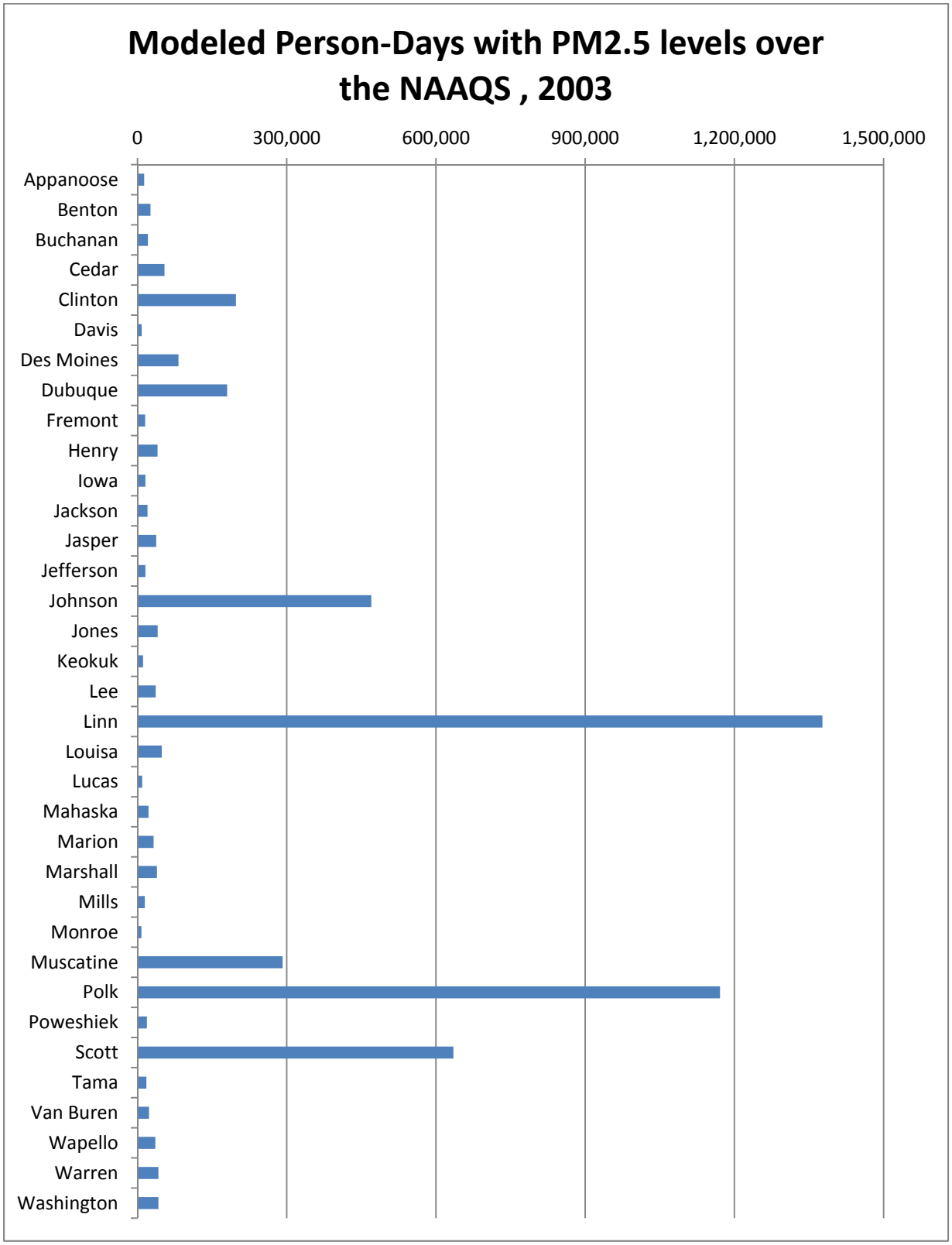

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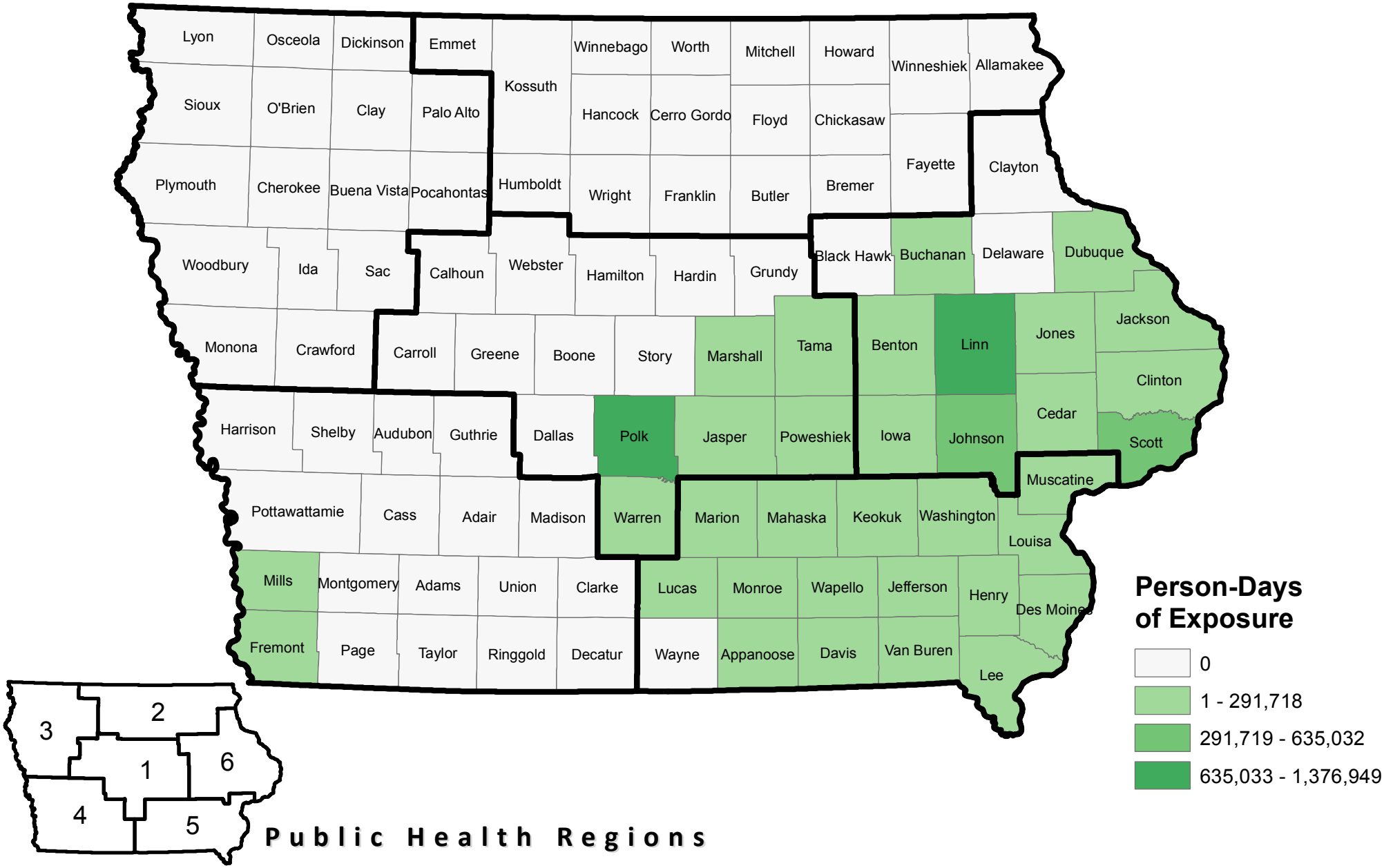
Modeled Number of Person-Days with PM2.5 Level above the NAAQS of 35 micrograms per cubic meter 2003