



Indiana Department of Environmental Management

The States' View of the Air



2016

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EXECUTIVE SUMMARY

Air quality across the nation has improved over the past ten years or more. Unfortunately the message often found in the press, is that the air quality is terrible. This analysis demonstrates the progress made from 2000 through 2014 for ozone and fine particles (PM-2.5).

Figures 1 through 3 show the progress made for ozone, 24-hour PM-2.5 and annual PM-2.5. The bars represent the population of each period (based on the last year in the period). The portion that is green represents the number of people living in counties that measure air quality better than the standard. The portion of the bar that is red represents the number of people living in counties that measure air quality at levels above the standard. The blue portion of the bar represents the number of people that live in counties where air quality is not measured.

These assessments have been based on results of individual monitors. For example, if a county has two ozone monitors and data for one is rated as a C and the other as a D, the population of the county is split in half and half is assigned to each category; meeting the standard and not meeting the standard.

Compliance with standards is determined on a three year basis. In 2000 – 2002 approximately 53 million people lived in counties that measured ozone air quality levels better than the standard. By 2012 – 2014 this had increased to 195 million people.

The situation for fine particles (PM-2.5) is very similar. In 2000 – 2002, 115 million people lived in counties where 24-hour PM-2.5 levels were measured below the standard. By 2012 – 2014 this had increased to 187 million people. Of note, is that monitoring for PM-2.5 is only conducted in counties with a total of 193 million people.

In the 2000 – 2002 period, 138 million people lived in counties where annual PM-2.5 levels were measured below the standard. By 2012 – 2014 this had increased to 186 million people. Approximately 7 million people lived in counties where annual PM-2.5 levels were measured above the standard. Much of this increase is due to the implementation of the new annual PM-2.5 standard.

Even with the improvements made in air quality, there are still areas of the country that need further improvement. Figure 4 shows states that have 8 hour ozone nonattainment areas based on 2012 – 2014 data. Sixteen states are included.

Figure 5 shows those states that violate the 24-hour PM-2.5 standard based on 2012 – 2014 data. Only five states are included.

Figure 6 shows those states that violate the annual PM-2.5 standard based on 2012 – 2014 data. Only Arizona, California, Ohio, and Pennsylvania are included.

The bottom line is that most areas of the country were meeting the PM-2.5 standard at the 2011 – 2013 review. There are still several areas of the country that violate the current ozone standard. Many areas have made considerable progress in lowering ozone levels, but further work remains to be done. During 2012, U.S. EPA lowered the annual PM-2.5 standard. This analysis compares historical air quality levels with this new standard.

Figure 1

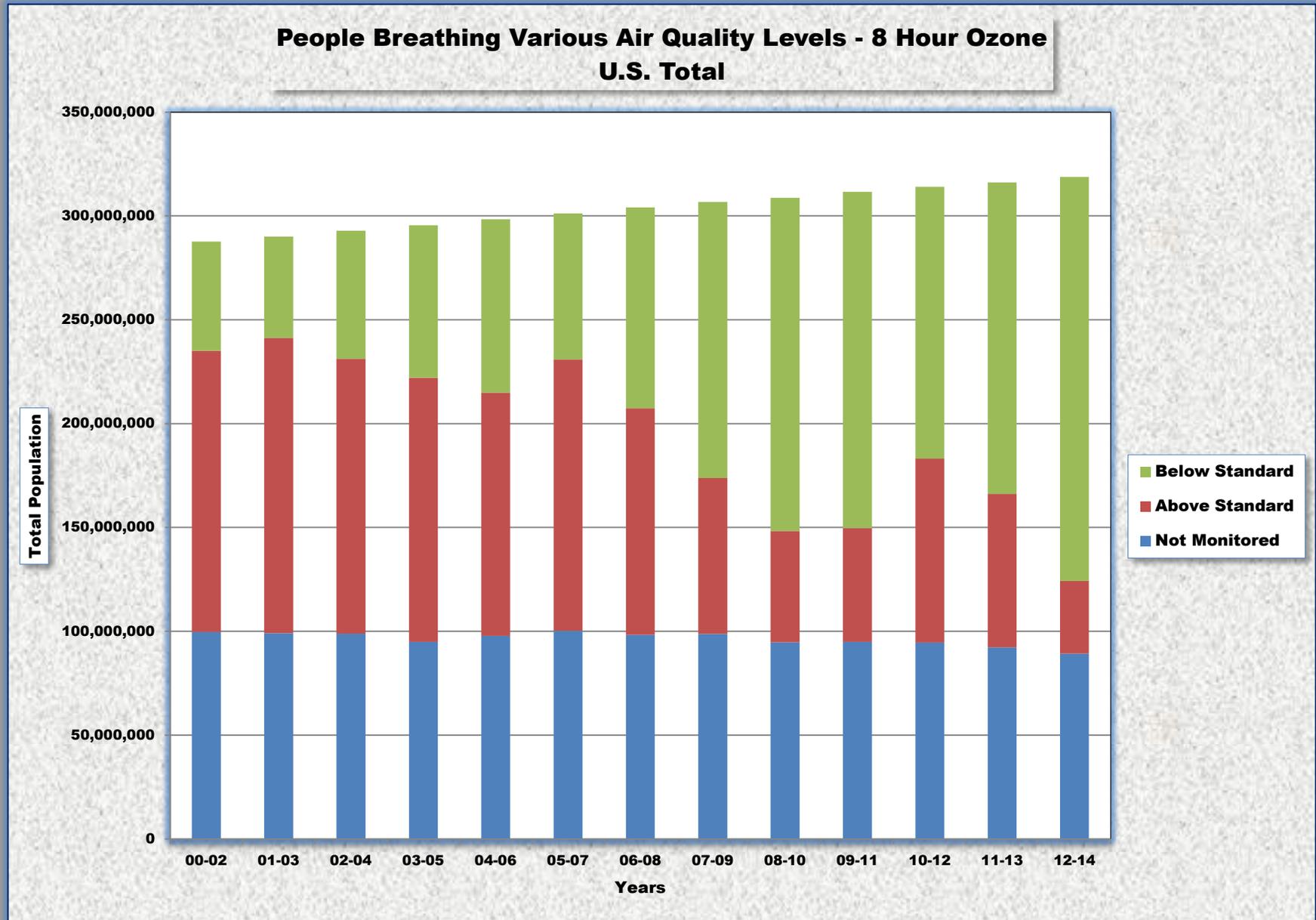


Figure 2

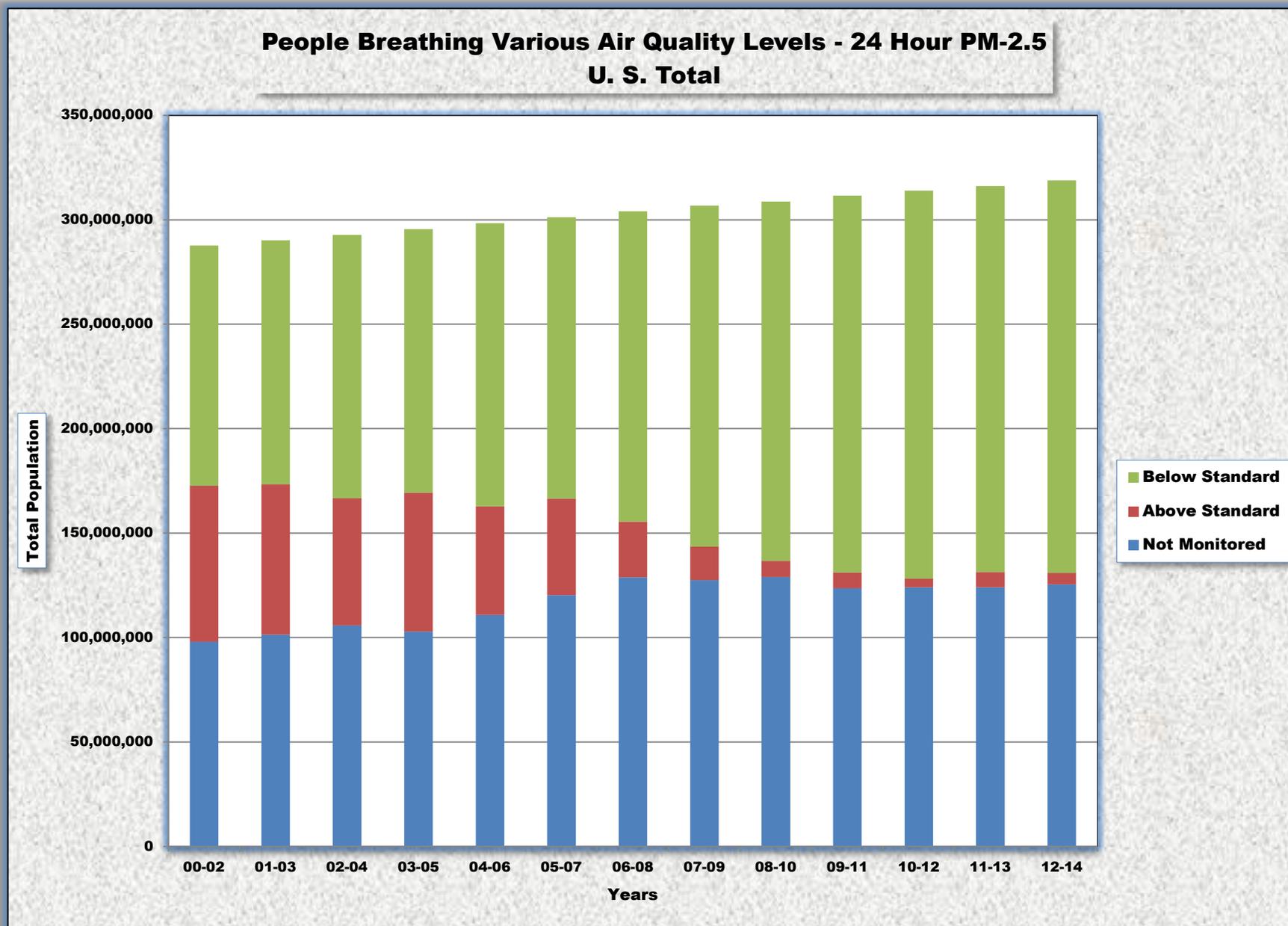


Figure 3

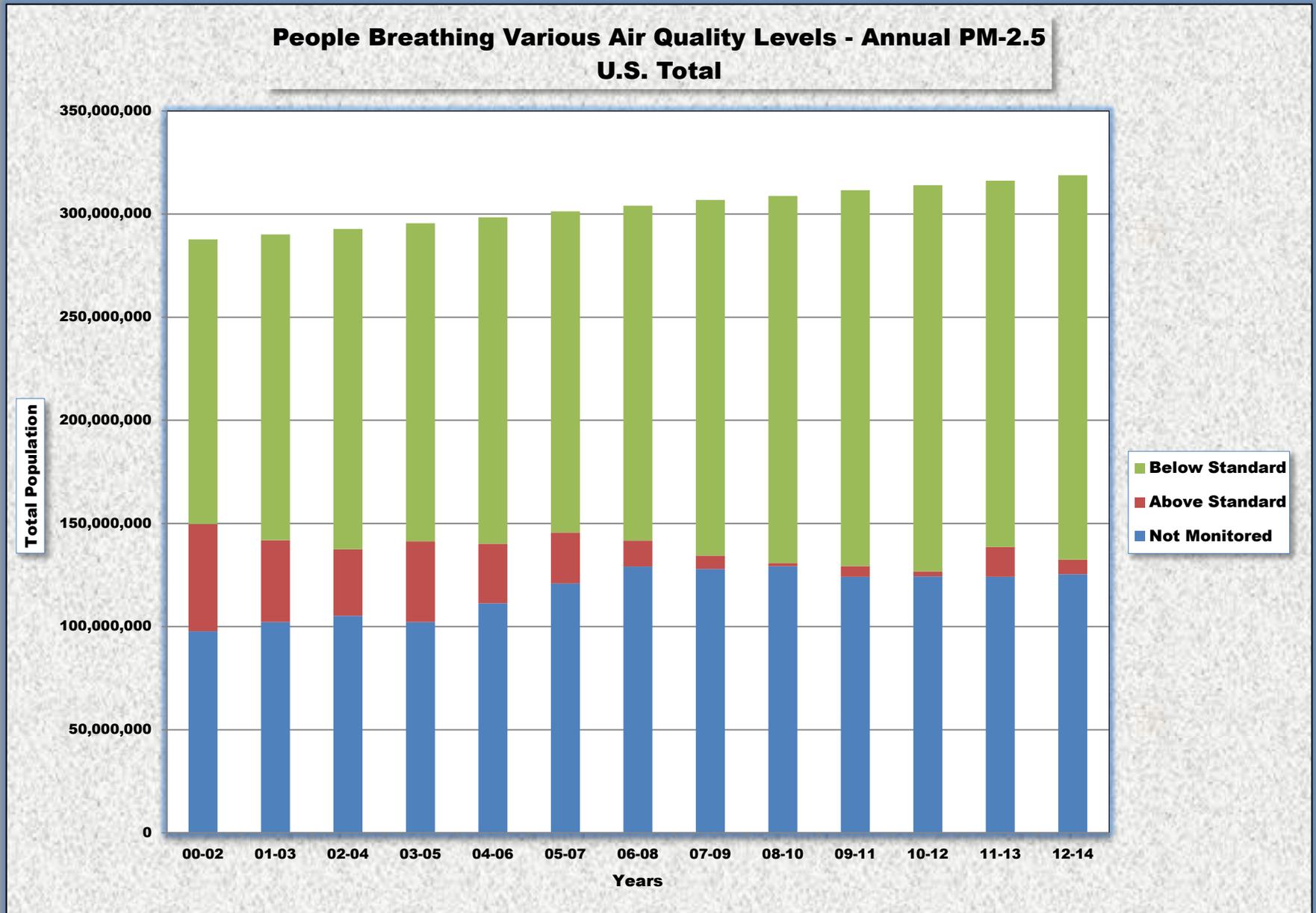


Figure 5
Non-Attainment States – 24 Hour PM-2.5 (Map 2)
2012 - 2014

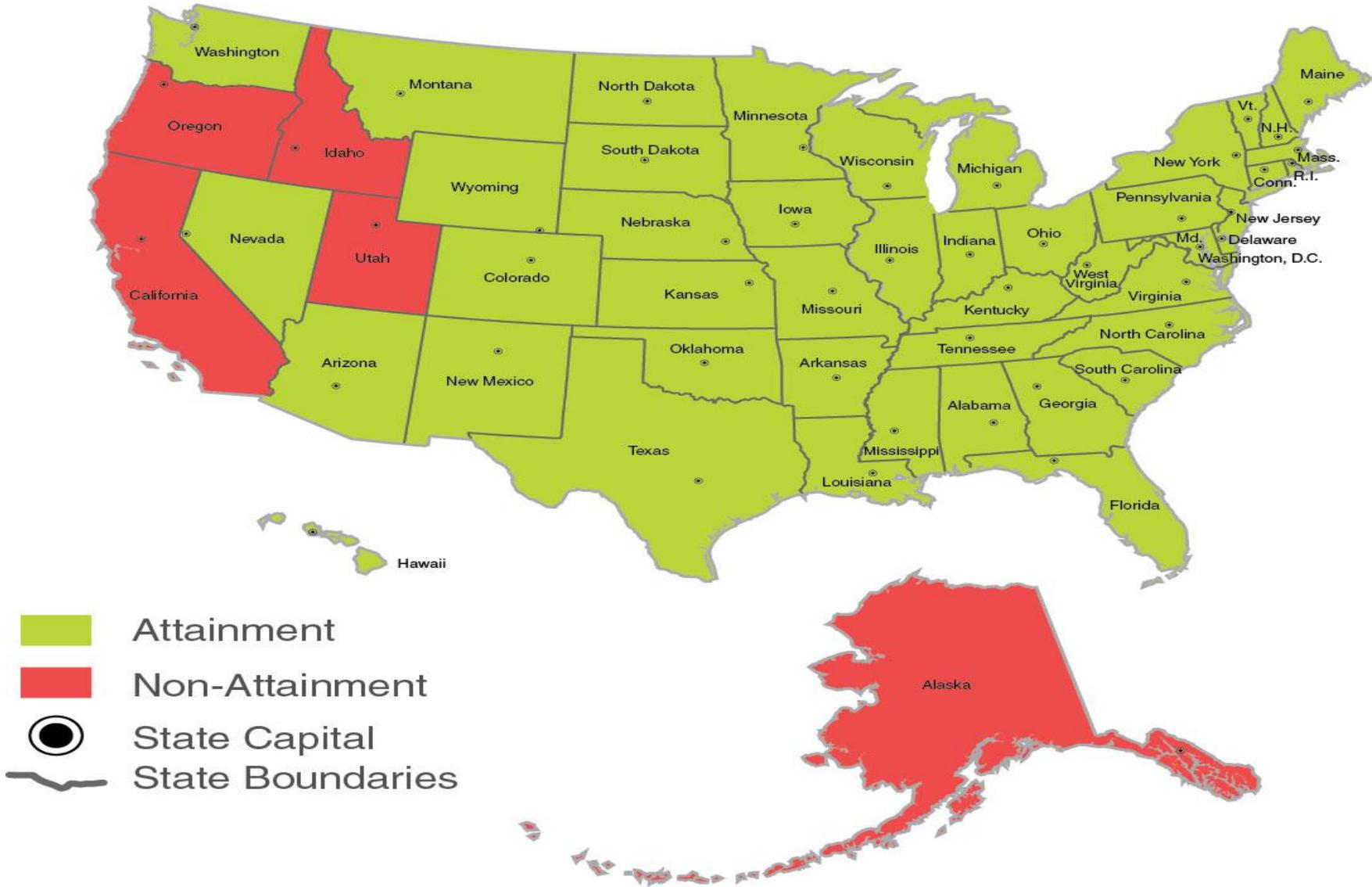
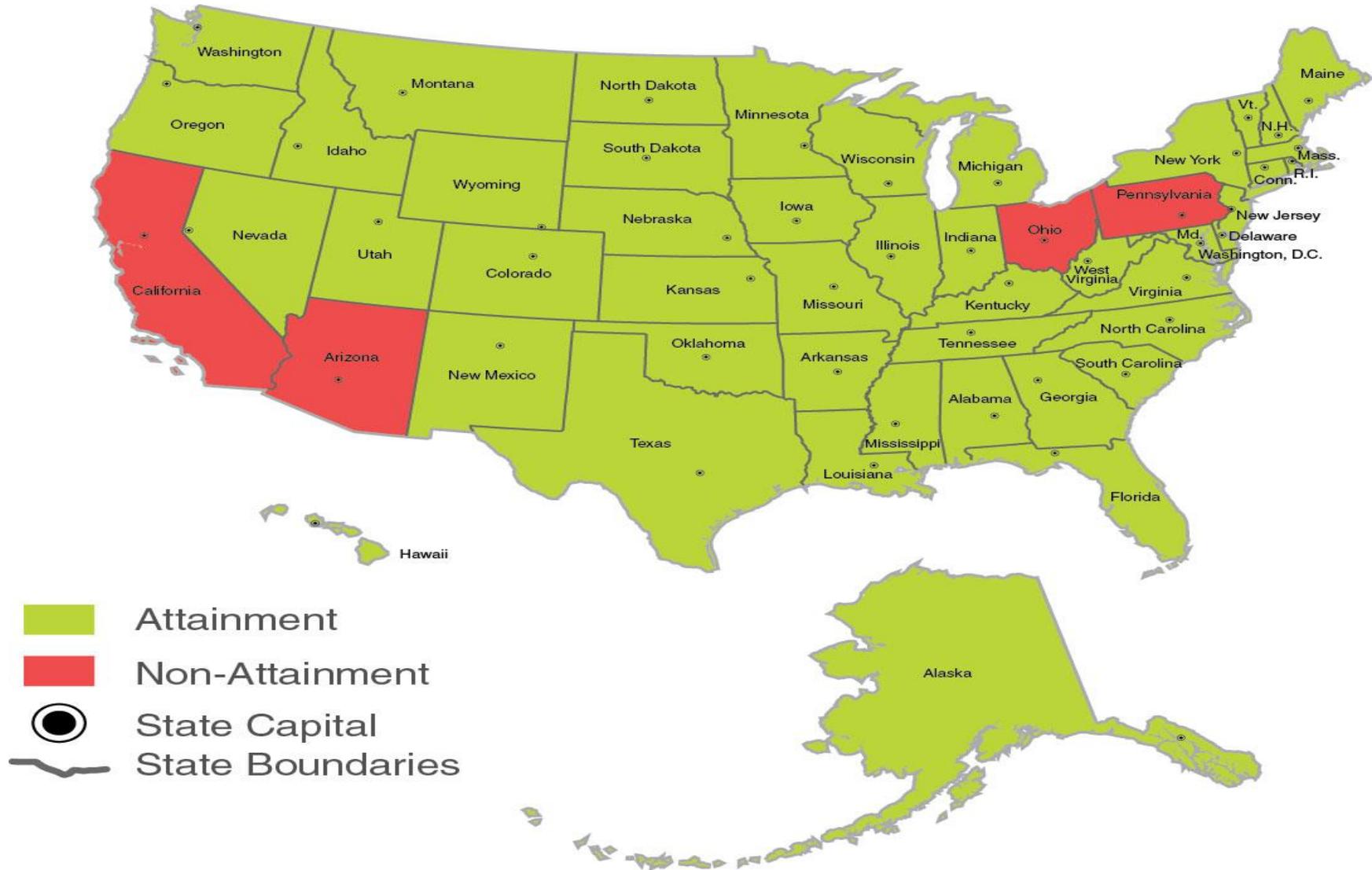


Figure 6
Non-Attainment States - Annual PM-2.5 (Map 3)
2012 - 2014



The States' View of the Air – 2016

This is the fifth year for this report. It was originally intended as a complimentary document to the American Lung Association's (ALA) annual report called "The State of the Air."

This report starts with the same air quality data used by the ALA. For this report, it includes data for the period of 2000 – 2014. The review of data in this report differs from the ALA in a few significant ways. First, the design values used for both ozone and PM-2.5 are based on average values for each county. Average values are used to compare between cities or county ratings. However, when determining whether the population is exposed to air quality above or below the standard, the population is split based on values from individual monitors. This is an important distinction. While U.S. EPA's guidance for attainment/nonattainment designation purposes focuses on the worst design value for a county, this is not consistent with what people are breathing. For example, if a county has ten monitors and nine have design values below the standard and one is slightly above the standard, U.S. EPA and ALA would assume that everyone in the county were breathing air at levels above the standard. That is obviously not correct. If you combine counties into metropolitan statistical areas (cities) consisting of several counties, the entire area would be assumed to be above the standard based on the one monitor described above. This report averages design values for all monitors in a county to determine the average level that is breathed by the residents of that county. This is not to say that some individuals could not be exposed to higher levels. However, not all residents in a county are exposed to levels associated with the highest monitor. This average design value is used only to compare between different states.

A second difference is that when design values for a number of counties are being grouped to determine the overall value for a metropolitan statistical area, the individual design values for each county are weighted by the population of that county to determine a population weighted average value. This value is more consistent with what the population is being exposed to and is in line with what health research professionals use in their analyses.

A grading system has been established for ozone and PM-2.5 in this report. Any grading system is arbitrary in nature. The key to this grading system is that any area meeting the national ambient air quality standards should not be rated lower than a "C". In essence, we have set the standard as a "C". Any level between 90 and 100% of the standard is rated a "C". Any level between 80 and 90% of the standard is rated as "B". Any level below 80% is set as an "A". Any level between 101 and 110% of the standard is set as a "D". Any level above 110% of the standard is rated as an "F". This translates into the following ranges.

Table 1
Grading Scheme

Grade	Ozone (ppm)	24-hr PM-2.5 (µg/m3)	Annual PM-2.5 (µg/m3)
A	< 0.060	< 28.0	< 9.6
B	0.060 – 0.067	28.0 – 31.4	9.6 – 10.7
C	0.068 – 0.075	31.5 – 35.0	10.8 – 12.0
D	0.076 – 0.082	35.1 – 38.5	12.1 – 13.2
F	> 0.082	> 38.5	> 13.2

This grading scale has been revised since last year because the national ambient air quality standard for annual PM-2.5 was revised. These are the appropriate levels for the standards that were in place during the time period (2012 – 2014).

This report does not report population groups by county or state (those less than 18 or 65 and older, diabetics, etc.). It is very difficult to obtain this data for each state. Also, the methodology which apportions state totals to individual counties is questionable. It is based solely upon a comparison of age distribution of the state versus the county. In many cases other variables, may be important in making these allocations more accurately.

Information on health effects is not included in this report. Instead we provide links to U.S. EPA websites that contain this information.

Ozone: <http://epa.gov/airquality/ozonepollution/health.html>

PM-2.5: <http://epa.gov/airquality/particlepollution/health.html>

The remainder of this report contains tables that are similar to those that are in the ALA report. The ALA report focuses solely on a three year block of data and does not provide any perspective. Our report looks at three year blocks of data from 2000 through 2014 so that the reader can see how the air quality is changing over time.

Ozone

In the 2000 – 2002 period approximately 53 million people (18.3% of the U.S. population) lived in counties that met the ozone standard. During the same time period approximately 100 million people (34.6%) lived in counties where ozone was not monitored. By the 2012 – 2014 period 195 million people (61.0%) lived in counties that met the ozone standard. During the same time period over 89 million people (28.0%) lived in counties where ozone was not monitored. Figure 1 shows the distribution of people by year.

24 – Hour PM-2.5

In the 2000 – 2002 period approximately 115 million people (40.0% of the U.S. population) lived in counties that met the 24-hour PM-2.5 standard. During this same time period approximately 98 million people (34.1%) lived in counties where PM-2.5 was not monitored. By the 2012 – 2014 period over 187 million people (58.9%) lived in counties that met the 24-hour PM-2.5 standard. During the same time period nearly 125 million people (39.3%) lived in counties where PM-2.5 was not monitored. Figure 2 shows the distribution of people by year.

Annual PM-2.5

In the 2000 – 2002 period approximately 138 million people (47.9% of the U.S. population) lived in counties that met the annual PM-2.5 standard. During the same time period approximately 98 million people (34.1%) lived in counties where PM-2.5 was not monitored. By the 2012 - 2014 period nearly 186 million people (58.5%) lived in counties that met the annual PM-2.5 standard. During the same time period nearly 125 million people (39.3%) lived in counties where PM-2.5 was not monitored. Figure 3 shows the distribution of people by year.

Note:

For the state summaries, the first table shows monitoring totals at the bottom that include county totals for areas that measure either Ozone or PM-2.5. The second set of tables includes totals monitored by pollutant.

Table 2
People Breathing Ozone

Grades	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	10,131,523	6,376,588	6,564,989	7,179,887	7,438,778	9,108,266	9,329,550	11,697,719	12,873,435	17,116,889	17,577,711	17,588,417	19,659,698
B	10,934,876	10,379,229	15,360,917	14,281,887	16,738,616	17,327,984	26,008,122	38,548,375	51,404,139	50,594,617	34,461,410	45,163,198	68,630,097
C	31,457,264	32,021,777	39,633,626	51,990,459	59,279,810	43,946,615	61,381,814	82,753,537	96,126,505	94,200,993	78,782,851	87,192,869	106,296,788
D	39,798,643	42,296,781	44,910,528	64,018,708	61,416,817	64,353,908	64,816,984	52,256,925	37,600,509	40,633,207	64,379,495	56,190,199	23,391,272
F	95,662,347	99,999,209	87,448,733	63,070,320	55,634,742	66,212,862	44,238,249	22,829,013	16,042,793	14,155,462	24,254,213	17,728,174	11,605,705
Subtotals	187,984,653	191,073,584	193,918,793	200,541,261	200,508,763	200,949,635	205,774,719	208,085,569	214,047,381	216,712,168	219,455,680	223,862,857	229,592,558
NM	99,640,540	99,034,349	98,886,505	94,975,338	97,871,149	100,281,572	98,319,247	98,685,960	94,698,157	94,879,749	94,548,360	92,265,982	89,273,476
Totals	287,625,193	290,107,933	292,805,298	295,516,599	298,379,912	301,231,207	304,093,966	306,771,529	308,745,538	311,591,917	314,004,040	316,128,839	318,857,036

Table 3
People Breathing Short-term Particle Pollution (24-hour PM-2.5)

Grades	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	39,881,763	47,887,689	49,231,738	45,397,201	52,283,496	56,454,021	73,299,289	100,515,234	123,740,873	140,662,435	158,596,598	164,160,356	170,684,569
B	36,431,942	30,082,632	34,646,612	35,162,480	36,377,810	36,503,487	45,877,264	42,834,521	37,211,482	27,743,252	23,728,800	14,120,383	11,472,530
C	38,677,918	38,809,795	42,267,519	45,596,607	46,980,855	41,705,298	29,459,586	19,860,604	11,157,556	12,113,406	3,468,212	6,524,086	5,705,918
D	26,102,105	24,031,712	25,444,744	28,827,340	21,462,979	21,559,722	13,086,958	4,857,812	4,478,582	1,242,344	1,072,537	1,254,409	1,134,946
F	48,603,338	47,902,446	35,461,117	37,701,675	30,439,705	24,695,846	13,462,714	11,217,210	3,182,497	6,292,520	3,122,749	6,007,513	4,509,547
Subtotals	189,697,066	188,714,274	187,051,725	192,685,303	187,544,845	180,918,374	175,285,811	179,285,481	179,770,990	188,053,957	189,988,896	192,066,747	193,507,510
NM	97,928,127	101,393,659	105,753,573	102,831,296	110,835,067	120,312,833	128,808,155	127,486,148	128,974,548	123,537,960	124,015,144	124,062,092	125,349,526
Totals	287,625,193	290,107,933	292,805,298	295,516,599	298,379,912	301,231,207	304,093,966	306,771,629	308,745,538	311,591,917	314,004,040	316,128,839	318,857,036

Table 4
People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grades	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	65,326,851	70,127,621	80,452,773	60,204,962	82,674,701	87,498,801	96,640,186	121,852,039	151,225,649	164,746,645	170,012,770	113,784,047	126,244,562
B	34,521,401	36,264,896	36,541,564	39,483,688	39,249,507	32,830,328	38,732,333	36,788,172	19,844,125	13,048,977	15,087,987	39,133,366	40,724,323
C	38,049,342	41,868,373	38,353,168	34,474,313	36,334,814	35,279,983	27,076,409	13,762,659	6,813,460	4,517,511	2,105,166	24,659,204	19,517,172
D	23,184,888	19,155,969	14,856,077	21,734,832	16,037,478	14,515,489	7,880,525	4,785,715	1,146,913	1,986,357	1,906,695	8,208,984	4,488,456
F	28,786,860	20,471,466	17,349,069	17,383,298	12,734,577	10,201,029	4,669,777	1,709,042	503,779	3,165,892	530,349	6,281,149	2,532,998
Subtotals	189,869,342	187,888,325	187,552,651	193,281,093	187,031,077	180,325,630	174,999,230	178,897,727	179,534,926	187,465,382	189,642,967	192,066,750	193,507,560
NM	97,755,851	102,219,608	105,252,647	102,235,506	111,348,835	120,905,577	129,094,736	127,873,902	129,211,612	124,126,535	124,361,073	124,062,089	125,349,525
Totals	287,625,193	290,107,933	292,805,298	295,516,599	298,379,912	301,231,207	304,093,966	306,771,629	308,746,538	311,591,917	314,004,040	316,128,839	318,857,036

NM = Not Monitored

Table 5
High Cities - Year Round Particle Pollution (Annual PM-2.5)
(2012 - 2014)

Rank	MSA	PW DV	Grade	2013 Population
1	Visalia, CA	17.2	F	458,198
2	Hanford, CA	16.2	F	150,269
3	Fresno, CA	14.0	F	965,974
4	Modesto, CA	13.4	F	531,997
5	Lebanon, PA	12.8	D	136,539
6	Bakersfield, CA	12.2	D	874,589
7	Harrisburg, PA	12.0	C	562,849
8	Stockton, CA	11.9	C	715,597
9	Altoona, PA	11.7	C	125,955
9	Merced, CA	11.7	C	266,353
11	Johnstown, PA	11.6	C	137,132
11	Lancaster, PA	11.6	C	533,320
13	Portland, OR	11.5	C	2,348,247
14	Erie, PA	11.4	C	278,443
14	Indianapolis, IN	11.4	C	1,841,205
16	Canton, OH	11.2	C	403,923
16	Houston, TX	11.2	C	6,518,179
18	Shreveport, LA	11.0	C	405,809
18	York, PA	11.0	C	440,755
18	Steubenville, OH	11.0	C	121,336
21	Cincinnati, OH	10.9	C	2,165,137
21	St. Joseph, MO	10.9	C	127,431
23	Evansville, IN	10.8	C	362,157
23	Los Angeles, CA	10.8	C	13,262,220
25	Little Rock, AR	10.7	B	729,135
25	Owensboro, KY	10.7	B	116,506
25	Reading, PA	10.7	B	413,691

MSA = Metropolitan Statistical Area PW = Population Weighted DV = Design Value

Of the top 27 cities, six have air quality that exceeds the revised national ambient air quality standard. Eighteen cities are rated as C and three are rated as B.

Table 6
Highest Cities – Short Term Particle Pollution (24-hour PM-2.5)
(2012 - 2014)

Rank	MSA	PW DV	Grade	2013 Population
1	Hanford, CA	64	F	150,269
2	Visalia, CA	56	F	458,198
3	Fresno, CA	51	F	965,974
4	Modesto, CA	50	F	531,997
5	Bakersfield, CA	44	F	874,589
5	Logan, UT	44	F	131,197
7	Provo, CA	43	F	571,460
8	Merced, CA	41	F	266,353
8	Stockton, CA	41	F	715,597
10	Fairbanks, AK	40	F	99,357
11	Salt Lake City, UT	39	F	1,192,445
12	Odgen, UT	36	D	580,775
13	Medford, OR	35	C	210,287
14	Lebanon, PA	34	C	136,539
15	Harrisburg, PA	33	C	562,849
16	Yakima, WA	32	C	247,687
17	Lancaster, PA	31	B	533,320
18	Reading, PA	29	B	413,691
19	Altoona, PA	28	B	125,955
19	Elkhart, IN	28	B	201,971
19	Eugene, OR	28	B	358,337
19	Johnstown, PA	28	B	137,132
23	Corpus Christi, TX	27	A	448,108
23	Grand Junction, CO	27	A	148,255
23	Portland, OR	27	A	2,348,247
23	Riverside, CA	27	A	4,441,890
23	York, PA	27	A	440,755
23	Allentown, PA	27	A	829,835
23	Los Angeles, CA	27	A	13,262,220

MSA = Metropolitan Statistical Area PW = Population Weighted DV = Design Value

Of the 29 highest cities, 11 have ratings of F, 1 is a D, 4 are C, 6 are B and 7 are A.

Table 7
Highest 8-Hour Ozone Cities
(2012 - 2014)

Rank	MSA	PW DV	Grade	2013 Population
1	Riverside, CA	0.089	F	4,441,890
1	Fresno, CA	0.089	F	965,974
3	Visalia, CA	0.085	F	458,198
4	Bakersfield, CA	0.083	F	874,589
5	Bridgeport, CT	0.082	D	945,438
6	Merced, CA	0.081	D	266,353
6	Sheboygan, WI	0.081	D	115,290
8	Madera, CA	0.079	D	154,548
8	Niles, MI	0.079	D	155,233
8	Muskegon, MI	0.079	D	172,344
8	Norwich, CT	0.079	D	273,676
12	Los Angeles, CA	0.078	D	13,262,220
12	Modesto, CA	0.078	D	531,997
12	Pittsburgh, PA	0.078	D	2,355,968
12	Hartford, CA	0.078	D	1,214,295
16	Yuma, AZ	0.077	D	203,247
16	Dallas, TX	0.077	D	6,896,953
18	El Centro, CA	0.076	D	179,091
18	New Haven, CT	0.076	D	861,277
20	Holland, MI	0.075	C	276,292
21	Sacramento, CA	0.075	C	2,244,397
22	Boulder, CO	0.074	C	313,333
22	Chico, CA	0.074	C	224,241
22	Fort Collins, CO	0.074	C	324,122
22	Michigan City, IN	0.074	C	111,444
22	Provo, UT	0.074	C	571,460
22	St. Louis, MO	0.074	C	2,855,934
22	San Antonio, TX	0.074	C	2,328,652
22	Stockton, CA	0.074	C	715,597

MSA = Metropolitan Statistical Area PW = Population Weighted DV = Design Value
Of the 29 highest rated cities, four are rated F, 15 are rated D and 10 are rated C.

Table 8
Highest Counties - Short Term Particle Pollution (24-hour PM-2.5)
(2012 - 2014)

Rank	County/State	DV	Grade	2013 Population
1	Kings, CA	64	F	150,269
1	Tulare, CA	64	F	458,198
3	Lake, OR	57	F	7,838
4	Fresno, CA	51	F	965,974
5	Stanislaus, CA	50	F	531,997
6	Kern, CA	44	F	874,589
6	Cache, UT	44	F	118,343
8	Siskiyou, CA	43	F	43,628
8	Utah, UT	43	F	560,874
10	Franklin, ID	42	F	13,021
10	Crook, OR	42	F	20,998
12	Merced, CA	41	F	266,353
12	San Joaquin, CA	41	F	715,597
14	Fairbanks, AK	40	F	99,357
14	Salt Lake, UT	40	F	1,091,742
16	Davis, UT	38	D	329,692
17	Lemhi, ID	37	D	7,726
17	Box Elder, UT	37	D	51,518
19	Jackson, OR	35	C	210,287
20	Klamath, OR	34	C	65,455
20	Lebanon, PA	34	C	136,359
22	Plumas, CA	33	C	18,606
22	Cumberland, PA	33	C	245,762
22	Weber, UT	33	C	240,475
25	Bucks, PA	32	C	626,685
25	Yakima, WA	32	C	247,687

DV = Design Value

Of the 26 highest counties, 15 are rated F, 3 are D, and 8 are C.

Table 9
Highest Counties Year Round Particle Pollution (Annual PM-2.5)
(2012 - 2014)

Rank	County/State	DV	Grade	2013 Population
1	Tulare, CA	17.2	F	458,198
2	Kings, CA	16.2	F	150,269
3	Fresno, CA	14.0	F	965,974
4	Stanislaus, CA	13.4	F	531,997
5	Lebanon, PA	12.8	D	136,359
6	Kern, CA	12.2	D	874,589
7	Cumberland, PA	12.0	C	245,762
8	San Joaquin, CA	11.9	C	715,597
9	Merced, CA	11.7	C	266,353
9	Butler, OH	11.7	C	374,158
9	Blair, PA	11.7	C	125,955
12	Cambria, PA	11.6	C	137,132
12	Delaware, PA	11.6	C	562,960
12	Lancaster, PA	11.6	C	533,320
15	Jefferson, OH	11.5	C	67,694
15	Beaver, PA	11.5	C	169,392
17	Marion, IN	11.4	C	934,243
17	Erie, PA	11.4	C	278,443
19	Los Angeles, CA	11.3	C	10,116,705
19	Lemhi, ID	11.3	C	7,726
19	Bucks, PA	11.3	C	626,685
22	Cuyahoga, OH	11.2	C	1,259,828
22	Stark, OH	11.2	C	375,736
22	Harris, TX	11.2	C	4,441,370
25	DeKalb, GA	11.1	C	722,161
25	Marshall, WV	11.1	C	32,416

DV = Design Value

Of the 26 highest counties, four are rated an F and two are D. All others meet the National Ambient Air Quality Standards with 20 being rated as C.

**Table 10
Highest Ozone Counties
(2012 - 2014)**

Rank	County/State	DV	Grade	2013 Population
1	San Bernardino, CA	0.093	F	2,112,619
2	Fresno, CA	0.089	F	965,974
3	Riverside, CA	0.085	F	2,329,271
3	Tulare, CA	0.085	F	458,198
5	Kern, CA	0.083	F	874,589
5	Allegan, MI	0.083	F	113,847
7	El Dorado, CA	0.082	D	183,087
7	Fairfield, CT	0.082	D	945,438
9	Los Angeles, CA	0.081	D	10,116,705
9	Merced, CA	0.081	D	266,353
9	Middlesex, CT	0.081	D	164,943
9	Kenosha, WI	0.081	D	168,068
9	Sheboygan, WI	0.081	D	115,290
14	Tolland, MI	0.080	D	151,367
14	Denton, TX	0.080	D	753,363
16	Madera, CA	0.079	D	154,548
16	New London, CT	0.079	D	273,676
16	Lake, IL	0.079	D	705,186
16	Berrien, MI	0.079	D	155,233
16	Muskegon, MI	0.079	D	172,344
16	Uintah, UT	0.079	D	36,867
22	Stanislaus, CA	0.078	D	531,997
22	Douglas, CO	0.078	D	314,638
22	Collin, TX	0.078	D	885,241
22	Tarrant, TX	0.078	D	1,945,360

DV = Design Value

Of the top 25 counties, 6 are rated as F and 19 are rated as D.

Table 11
Cleanest U.S. Cities for Short-term Particle Pollution (24-hr PM-2.5)
(2012 - 2014)

Rank	MSA	PW DV	Grade	2013 Population
1	Santa Fe, NM	9	A	148,164
2	Farmington, NM	12	A	123,785
2	Honolulu, HI	12	A	991,788
4	Casper, WY	13	A	81,624
4	Cheyenne, WY	13	A	96,389
4	Salinas, CA	13	A	431,344
4	Santa Cruz, CA	13	A	271,804
4	Tucson, AZ	13	A	1,004,516
9	Cape Coral, FL	14	A	679,513
9	Lakeland, FL	14	A	634,638
9	Las Cruces, NM	14	A	213,676
9	Manchester, OH	14	A	405,184
9	Miami, FL	14	A	5,929,819
14	Bismarck, ND	15	A	120,325
14	Burlington, VT	15	A	216,167
14	Deltona, FL	15	A	507,531
14	Orlando, FL	15	A	2,321,418
14	Pueblo, CO	15	A	161,875
14	Rapid City, SD	15	A	135,193
14	Tampa, FL	15	A	2,915,582
14	Wilmington, NC	15	A	171,649
22	Asheville, NC	16	A	442,316
22	Albuquerque, NM	16	A	904,587
22	Bangor, ME	16	A	153,414
22	Colorado Springs, CO	16	A	686,968
22	Gainesville, GA	16	A	190,761
22	Greenville, NC	16	A	196,447
22	Kingsport, TN	16	A	297,498
22	Palm Bay, FL	16	A	556,885
22	Pensacola, FL	16	A	474,081
22	Providence, RI	16	A	1,609,367
22	Redding, CA	16	A	179,804
22	Santa Barbara, CA	16	A	440,668
22	Syracuse, NY	16	A	661,478

MSA= Metropolitan Statistical Area PW = Population Weighted DV = Design Value
Of the 34 cleanest cities, all are rated as A.

Table 12
Cleanest U.S. Cities for Year Round Particle Pollution (Annual PM-2.5)
(2012 - 2014)

Rank	MSA	PW DV	Grade	2013 Population
1	Cheyenne, WY	4.1	A	96,389
2	Farmington, NM	4.5	A	123,785
2	Santa Fe, NM	4.5	A	148,164
4	Casper, WY	4.7	A	81,624
5	Honolulu, HI	5.3	A	991,788
5	Anchorage, AK	5.3	A	398,892
7	Salinas, CA	5.4	A	431,344
8	Manchester, OH	5.7	A	405,184
8	Redding, CA	5.7	A	179,804
8	Tucson, AZ	5.7	A	1,004,516
11	Bismarck, ND	5.8	A	120,325
12	Palm Bay, FL	5.9	A	556,885
13	Burlington, VT	6.0	A	216,167
13	Santa Cruz, CA	6.0	A	271,804
15	Cape Coral, FL	6.2	A	679,513
15	Colorado Springs, CO	6.2	A	686,968
15	Las Cruces, NM	6.2	A	213,676
18	Duluth, MN	6.3	A	280,218
18	Orlando, FL	6.3	A	2,321,418
18	Pueblo, CO	6.3	A	161,875
18	Rapid City, SD	6.3	A	135,193
22	Miami, FL	6.4	A	5,929,819
22	Deltona, FL	6.4	A	507,531
22	Tampa, FL	6.4	A	2,915,582
25	Albuquerque, NM	6.5	A	904,587
25	North Port, FL	6.5	A	748,708
25	Providence, RI	6.5	A	1,609,367

MSA = Metropolitan Statistical Area PW = Population Weighted DV = Design Value

Of the 27 cleanest cities all are rated as A.

Table 13
Cleanest U.S. Cities for Ozone Air Pollution
(2012 - 2014)

Rank	MSA	PW DV	Grade	2013 Population
1	Bellingham, WA	0.045	A	208,351
1	Mount Vernon, WA	0.045	A	120,365
3	Fairbanks, AK	0.046	A	99,357
4	Honolulu, HI	0.049	A	991,788
5	Santa Cruz, CA	0.053	A	271,804
6	Santa Rosa, CA	0.054	A	500,292
7	Missoula, MT	0.055	A	112,684
7	Olympia, WA	0.055	A	265,851
7	Salinas, CA	0.055	A	431,344
7	Duluth, MN	0.055	A	280,218
11	San Francisco, CA	0.056	A	4,594,060
11	Seattle, WA	0.056	A	3,671,478
13	Brunswick, GA	0.057	A	114,806
13	Eugene, OR	0.057	A	358,337
13	McAllen, TX	0.057	A	831,073
13	Portland, OR	0.057	A	2,348,247
13	Tuscaloosa, AL	0.057	A	225,949
18	Bangor, ME	0.058	A	153,414
18	Brownsville, TX	0.058	A	420,392
18	Lincoln, NE	0.058	A	318,945
21	Bend, OR	0.059	A	170,388
21	Bismarck, ND	0.059	A	120,325
21	Columbia, SC	0.059	A	800,495
21	Jacksonville, FL	0.059	A	1,419,127
21	Monroe, LA	0.059	A	178,864
21	Napa, CA	0.059	A	141,667
21	Naples, FL	0.059	A	348,777
21	Ocala, FL	0.059	A	339,167
21	Savannah, GA	0.059	A	372,708

MSA = Metropolitan Statistical Area PW = Population Weighted DV = Design Value

Of the cleanest 29 cities, all are rated A.

Table 14
Cleanest Counties – Short Term Particle Pollution (24-hour PM-2.5)
(2012 - 2014)

Rank	County/State	DV	Grade	2013 Population
1	Santa Fe, NM	9	A	148,164
2	Custer, SD	10	A	8,445
3	Montezuma, CO	11	A	25,772
3	Hancock, ME	11	A	54,696
3	Billings, ND	11	A	901
6	Lake, CA	12	A	64,184
6	Hawaii, HI	12	A	194,190
6	Honolulu, HI	12	A	991,788
6	Maui, HI	12	A	163,019
6	San Juan, NM	12	A	123,785
6	Teton, WY	12	A	22,930
12	Pima, AZ	13	A	1,004,516
12	Monterey, CA	13	A	431,344
12	San Benito, CA	13	A	58,267
12	Santa Cruz, CA	13	A	271,804
12	Litchfield, CT	13	A	184,993
12	Palm Beach, FL	13	A	1,397,710
12	Rosebud, MT	13	A	9,326
12	Belknap, NH	13	A	60,305
12	Essex, NY	13	A	38,679
12	Kent, RI	13	A	165,128
12	Jackson, SD	13	A	3,274
12	Albany, NY	13	A	37,811
12	Laramie, WY	13	A	96,389
12	Natrona, WY	13	A	81,624
12	Sweetwater, WY	13	A	45,010

DV = Design Value

The cleanest 26 counties are all rated as A.

Table 15
Cleanest Counties - Year Round Particle Pollution (Annual PM-2.5)
(2012 - 2014)

Rank	County/State	DV	Grade	2013 Population
1	Custer, SD	3.5	A	8,445
2	Lake, CA	4.0	A	64,184
3	Essex, NY	4.1	A	38,679
3	Laramie, WY	4.1	A	96,389
5	Hancock, ME	4.4	A	54,696
5	Billings, ND	4.4	A	901
5	Park, WY	4.4	A	28,989
8	San Juan, NM	4.5	A	123,785
8	Santa Fe, NM	4.5	A	148,164
8	Washington, RI	4.5	A	126,653
11	McKenzie, ND	4.6	A	10,996
11	Jackson, SD	4.6	A	3,274
13	Natrona, WY	4.7	A	81,624
14	Matanuska, AK	4.8	A	97,882
14	Dunn, ND	4.8	A	4,399
14	Albany, WY	4.8	A	37,811
17	Maui, HI	5.0	A	163,019
17	Teton, WY	5.0	A	22,930
19	San Benito, CA	5.1	A	58,267
19	Rosebud, MT	5.1	A	9,326
19	Ashland, WI	5.1	A	16,103
22	Oliver, ND	5.2	A	1,850
22	Kent, RI	5.2	A	165,128
24	Litchfield, CT	5.3	A	184,993
24	Honolulu, HI	5.3	A	991,788
24	Aroostook, ME	5.3	A	69,447
24	Campbell, WY	5.3	A	48,320

DV = Design Value

The cleanest 27 counties are all rated as A.

Table 16
Cleanest Counties - Ozone Air Pollution
(2012 - 2014)

Rank	County/State	DV	Grade	2013 Population
1	Humboldt, CA	0.044	A	134,809
2	Skagit, WA	0.045	A	120,365
2	Whatcom, WA	0.045	A	208,351
4	Fairbanks, AK	0.046	A	99,357
5	San Francisco, CA	0.047	A	852,469
6	Honolulu, HI	0.049	A	991,788
7	Columbia, OR	0.051	A	49,459
8	Santa Cruz, CA	0.053	A	271,804
8	Aroostook, ME	0.053	A	69,447
8	Oxford, ME	0.053	A	57,238
8	Flathead, MT	0.053	A	94,924
12	Denali, AK	0.054	A	1,921
12	Sonoma, CA	0.054	A	500,292
12	Washington, ME	0.054	A	31,808
15	Monterey, CA	0.055	A	431,344
15	St. Louis, MN	0.055	A	200,949
15	Lewis & Clark, MT	0.055	A	65,856
15	Missoula, MT	0.055	A	112,684
15	Colleton, SC	0.055	A	37,771
15	Edgefield, SC	0.055	A	26,553
15	King, WA	0.055	A	2,079,967
15	Thurston, WA	0.055	A	265,851
23	Alameda, CA	0.056	A	1,610,921
23	Marin, CA	0.056	A	260,750
23	San Mateo, CA	0.056	A	758,581
23	Rosebud, MT	0.056	A	9,326
23	Billings, ND	0.056	A	901
23	Multnomah, OR	0.056	A	776,712
23	Clark, WA	0.056	A	451,008

DV = Design Value

Of the 29 cleanest counties, all are rated A.

State By State Analyses

ALABAMA

Ozone

Significant progress has been made in ozone levels in Alabama. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to 2.9 million people (58.9%). The rest of the people in 2012 – 2014 lived in counties where ozone was not measured. Figure AL-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Alabama. In the 2000 – 2002 time period, approximately 1.9 million people (41.9%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this had increased to approximately 2.9 million people (59.2%). The remainder of the people in 2012 -2014 lived in counties where PM-2.5 was not measured. Figure AL-2 shows the distribution of people by year.

Annual PM-2.5

Progress has been made in annual PM-2.5 levels in Alabama. In the 2000 – 2002 time period, approximately 1.8 million people (40.1%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 2.9 million people (59.2%). The remainder of the people in 2012 – 2014 lived in counties where PM-2.5 was not measured. Figure AL-3 shows the distribution of people by year.

**Table AL-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Baldwin	200,111	0.068	C	N	17	A	8.8	A	N
Clay	13,552	ND	---	---	18	A	8.6	A	N
Colbert	54,543	0.065	B	N	19	A	8.9	A	N
DeKalb	71,065	0.067	B	N	18	A	9.3	A	N
Elmore	80,977	0.062	B	N	ND	---	ND	---	---
Etowah	103,531	0.060	B	N	18	A	9.4	A	N
Houston	104,193	0.061	B	N	18	A	8.6	A	N
Jefferson	660,793	0.072	C	Y	22	A	10.6	B	Y
Madison	350,299	0.068	C	Y	19	A	9.0	A	N
Mobile	415,123	0.069	C	Y	18	A	8.7	A	N
Montgomery	226,189	0.064	B	N	18	A	9.7	B	N
Morgan	119,607	0.068	C	N	18	A	8.9	A	N
Russell	59,608	0.062	B	N	22	A	10.7	B	N
Shelby	206,655	0.069	C	N	18	A	9.4	A	N
Talladega	81,322	ND	---	---	19	A	9.6	B	N
Tuscaloosa	202,212	0.057	A	N	20	A	9.3	A	N
Subtotal	2,949,780								
Not Monitored	1,899,597								
Total	4,849,377								

DV = Design Value

ND = No Data

MM = Multiple Monitors

ALABAMA

**Table AL-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	197,211	198,596	200,821	202,212
B	0	0	0	237,751	14,059	13,926	13,882	544,335	720,364	529,349	215,668	1,523,895	969,654
C	0	310,066	982,159	1,213,337	941,023	792,077	692,781	1,759,940	2,012,982	2,028,309	2,050,984	1,116,340	1,683,040
D	1,516,879	1,753,581	1,268,573	922,630	1,432,960	1,354,402	1,449,168	412,188	0	0	293,337	0	0
F	594,501	332,161	165,757	171,691	50,459	547,470	334,425	0	0	0	0	0	0
Subtotal	2,111,380	2,296,405	2,416,489	2,545,409	2,438,501	2,707,875	2,490,256	2,716,463	2,733,346	2,754,869	2,758,585	2,841,056	2,854,906
NM	2,368,709	2,207,083	2,114,243	2,024,396	2,190,480	1,964,965	2,127,950	2,041,475	2,046,390	2,047,871	2,064,238	1,992,666	1,994,471
Total	4,480,089	4,501,491	4,530,729	4,569,805	4,628,981	4,672,840	4,718,206	4,757,938	4,779,736	4,802,740	4,722,823	4,833,722	4,849,377

People Breathing Short-Term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	147,957	587,387	421,572	0	369,579	578,119	710,633	2,070,212	2,179,731	2,708,614	3,013,855	2,854,732	2,868,803
B	540,900	1,277,079	848,163	764,788	505,081	855,231	1,615,710	299,446	164,617	0	0	0	0
C	1,189,213	339,951	970,889	1,602,239	1,244,490	1,160,706	82,064	82,305	0	0	0	0	0
D	209,281	93,930	187,435	143,291	267,501	81,895	82,064	0	0	0	0	0	0
F	290,850	93,930	93,718	187,120	163,973	163,791	82,064	0	0	0	0	0	0
Subtotal	2,378,201	2,392,278	2,521,776	2,693,437	2,550,624	2,839,742	2,572,534	2,457,963	2,344,347	2,708,614	3,093,855	2,854,732	2,868,803
NM	2,101,888	2,111,213	2,008,953	1,816,368	2,078,357	1,833,098	2,145,710	2,305,975	2,435,389	2,094,126	1,808,968	1,978,990	1,980,574
Total	4,480,089	4,501,491	4,530,729	4,569,805	4,628,981	4,672,840	4,718,206	4,757,938	4,779,786	4,802,740	4,722,823	4,833,722	4,849,377

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	147,957	444,480	435,896	309,307	349,579	375,262	508,379	1,717,057	2,126,784	2,489,309	2,626,031	901,076	1,840,891
B	412,925	319,648	539,308	641,289	519,134	406,995	1,498,196	568,296	135,255	219,305	387,825	1,234,592	697,516
C	1,236,093	1,391,274	1,309,639	1,505,990	1,119,532	1,596,935	401,831	164,610	82,308	0	0	719,064	330,396
D	343,875	49,065	143,216	49,731	296,419	296,760	82,064	0	0	0	0	0	0
F	237,351	93,930	93,718	187,120	163,973	163,791	82,064	0	0	0	0	0	0
Subtotal	2,378,201	2,392,278	2,521,776	2,693,487	2,550,624	2,839,742	2,572,534	2,457,963	2,344,347	2,708,614	3,093,855	2,854,732	2,868,803
NM	2,101,888	2,111,213	2,008,953	1,816,368	2,078,357	1,833,098	2,145,710	2,305,975	2,435,389	2,094,126	1,808,988	1,978,990	1,980,574
Total	4,480,089	4,501,491	4,530,729	4,569,805	4,628,981	4,672,840	4,718,206	4,757,938	4,779,786	4,802,740	4,722,823	4,833,722	4,849,377

NM = Not Monitored

Figure AL-1

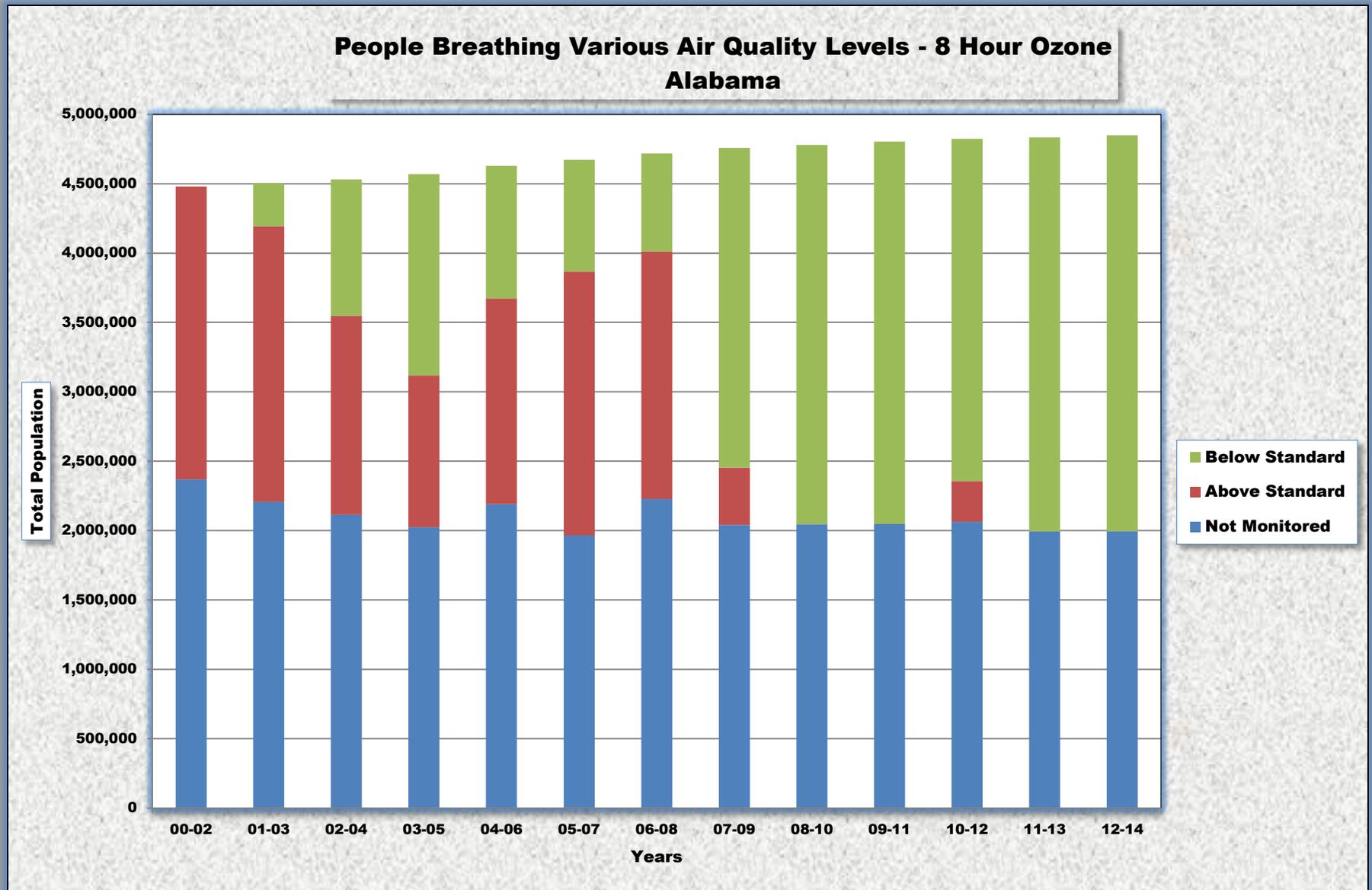


Figure AL-2

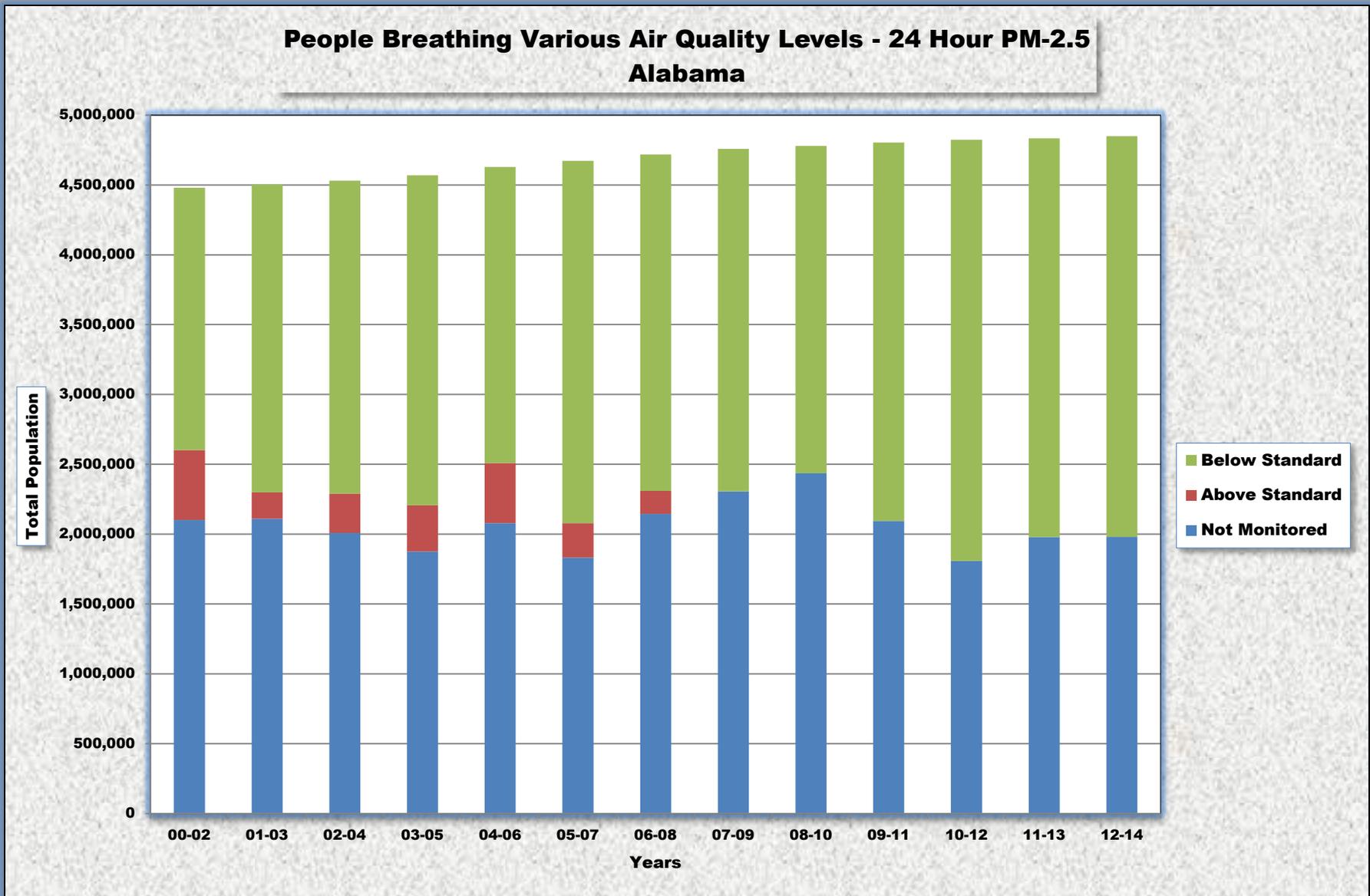
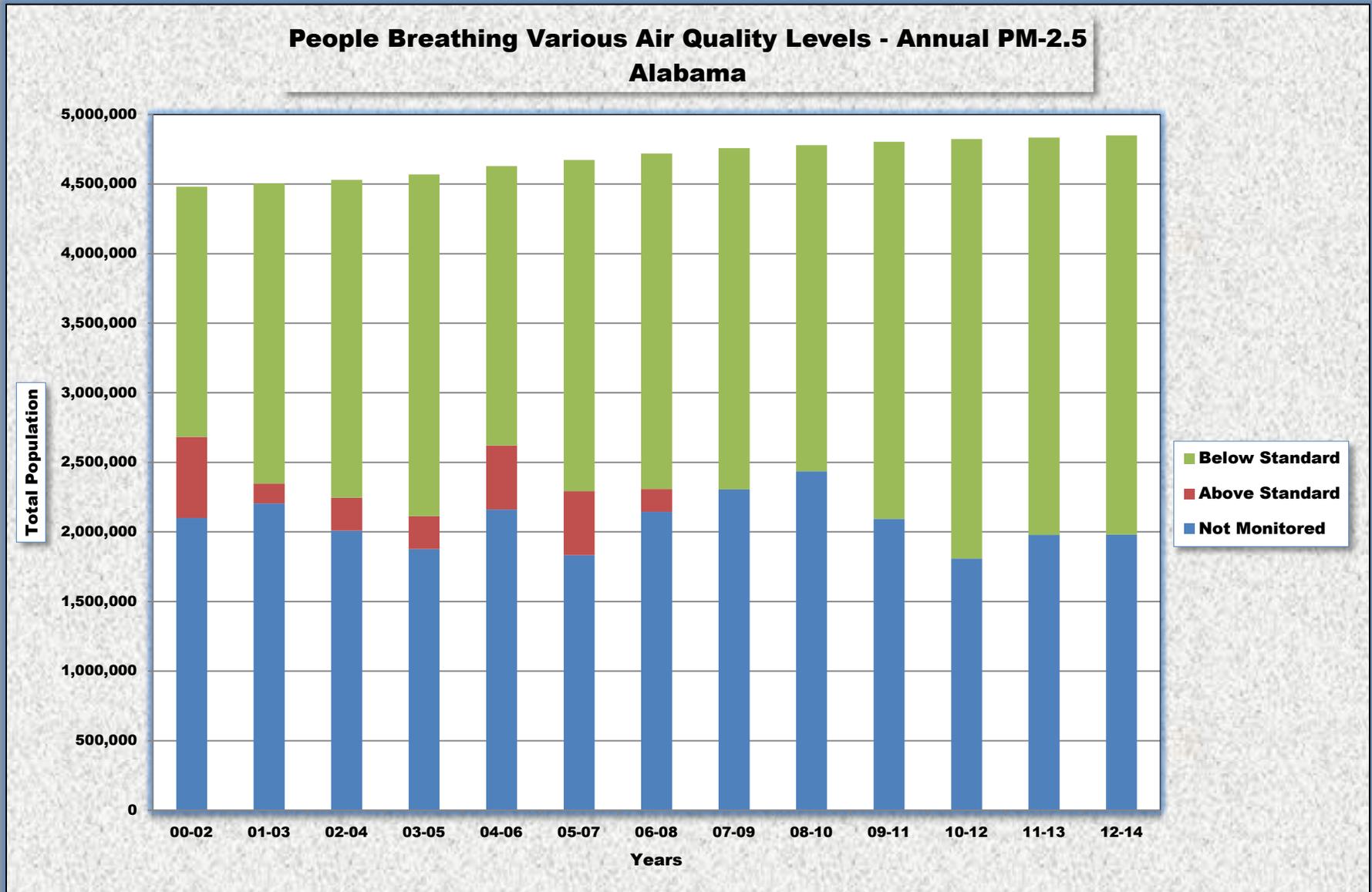


Figure AL-3



ALASKA

Ozone

Ozone levels in Alaska have historically been better than the standard. In the 2000 – 2002 time period, approximately two thousand people (0.3%) lived in counties that met the ozone standard and the rest of the population lived in counties where ozone was not measured. By 2012 – 2014 there were 400,000 people (54.3%) living in counties that met the ozone standard and the rest of the population lived in counties where ozone is not measured. Figure AK-1 shows the distribution of people by year.

24-Hour PM-2.5

In the 2000 – 2002 time period, approximately 360,000 people (56.6%) in Alaska lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 431,000 people (58.5%). Figure AK-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Alaska have historically been better than the standard. In the 2000 – 2002 time period, approximately 450,000 people (70.0%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 530,000 (72.0%). Figure AK-3 shows the distribution of people by year.

Table AK-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Anchorage	301,010	ND	--	--	18	A	5.5	A	Y
Denali	1,921	0.054	A	N	ND	--	ND	--	--
Fairbanks	99,357	0.046	A	N	40	F	10.6	B	Y
Juneau	32,406	ND	--	--	25	A	6.7	A	N
Matanuska	97,882	ND	--	--	21	A	4.8	A	Y
Subtotal	532,576								
Not Monitored	204,156								
Total	736,732								

DV = Design Value

ND = No Data

MM = Multiple Monitors

ALASKA

**Table AK-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,862	1,825	1,877	1,834	1,837	1,803	1,803	1,817	1,826	1,855	300,485	1,867	101,278
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,862	1,825	1,877	1,834	1,837	1,803	1,803	1,817	1,826	1,855	300,485	1,867	101,278
NM	640,475	646,589	657,407	665,112	673,465	678,497	685,652	698,078	708,405	720,663	430,964	733,265	635,454
Total	642,337	648,414	659,286	666,946	675,302	680,300	687,455	698,895	710,231	722,718	731,449	735,132	736,732

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	298,941	303,386	305,587	0	280,085	278,792	281,554	287,677	323,101	295,570	378,129	428,802	398,671
B	64,353	67,162	0	307,497	30,808	81,402	84,079	0	0	32,164	0	0	0
C	0	0	0	0	0	0	31,110	30,857	0	0	46,963	0	32,627
D	0	0	0	0	0	30,682	0	0	0	0	0	0	0
F	66,095	86,685	89,043	90,431	90,545	93,545	94,552	95,238	97,581	99,192	100,272	100,436	99,357
Subtotal	449,389	457,433	394,632	397,928	401,438	484,421	491,295	413,772	420,582	426,926	525,364	529,238	530,655
NM	192,948	190,981	264,654	269,018	273,864	195,879	196,160	285,123	289,549	295,792	206,085	205,894	206,077
Total	642,337	648,414	659,286	666,946	675,302	680,300	687,455	698,895	710,231	722,718	731,449	735,132	736,732

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	363,294	457,433	394,630	397,928	401,438	484,421	491,295	413,772	420,682	426,926	525,363	428,802	431,298
B	86,095	0	0	0	0	0	0	0	0	0	0	50,218	99,357
C	0	0	0	0	0	0	0	0	0	0	0	50,218	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	449,389	457,433	394,632	397,928	401,438	484,421	491,295	413,772	420,582	426,926	525,364	529,894	530,655
NM	192,948	190,981	264,654	269,018	273,864	195,879	196,160	285,123	289,549	295,792	206,085	205,894	206,077
Total	642,337	648,414	659,286	666,946	675,302	680,300	687,455	698,895	710,231	722,718	731,449	735,132	736,732

NM = Not Monitored

Figure AK-1

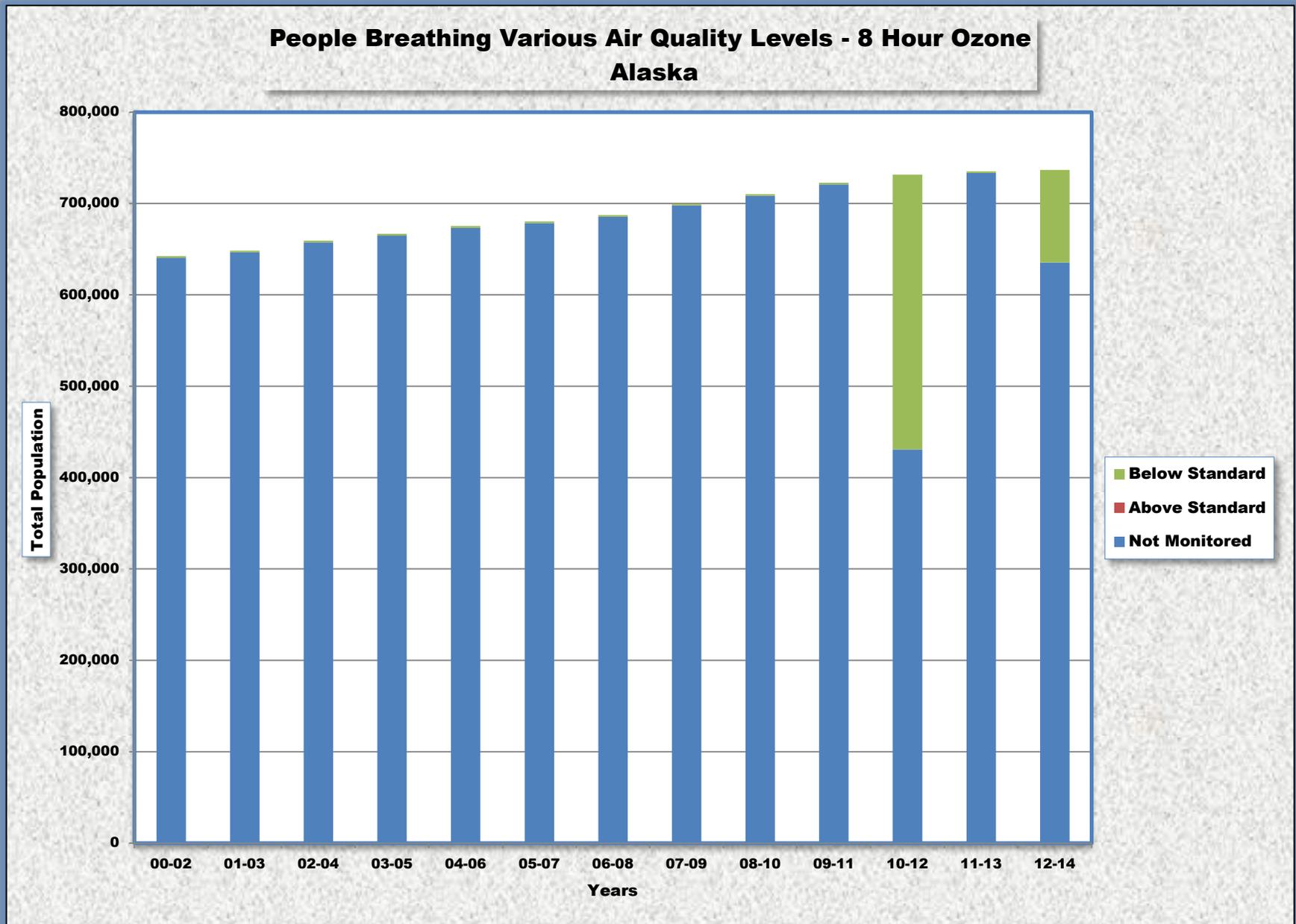


Figure AK-2

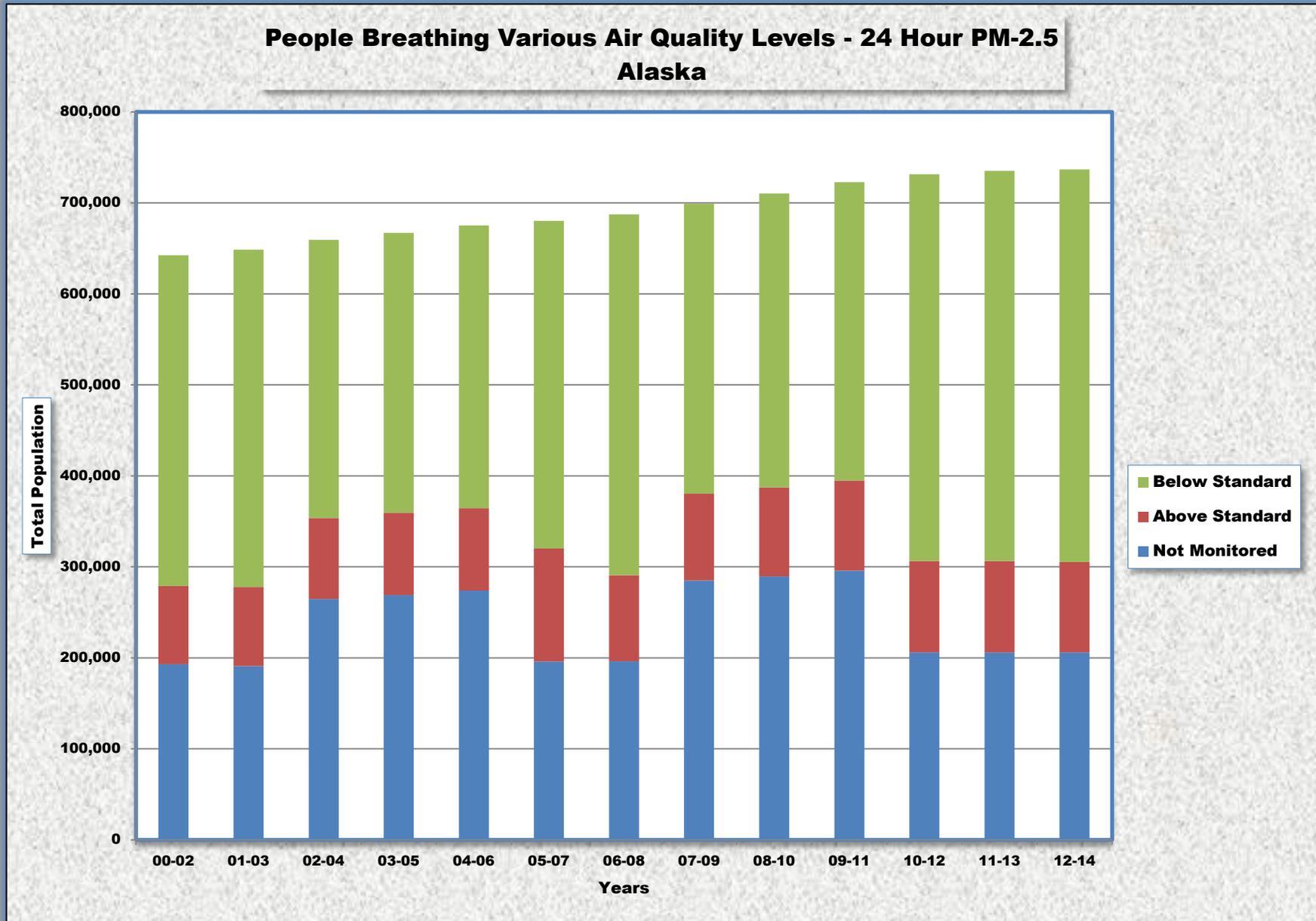
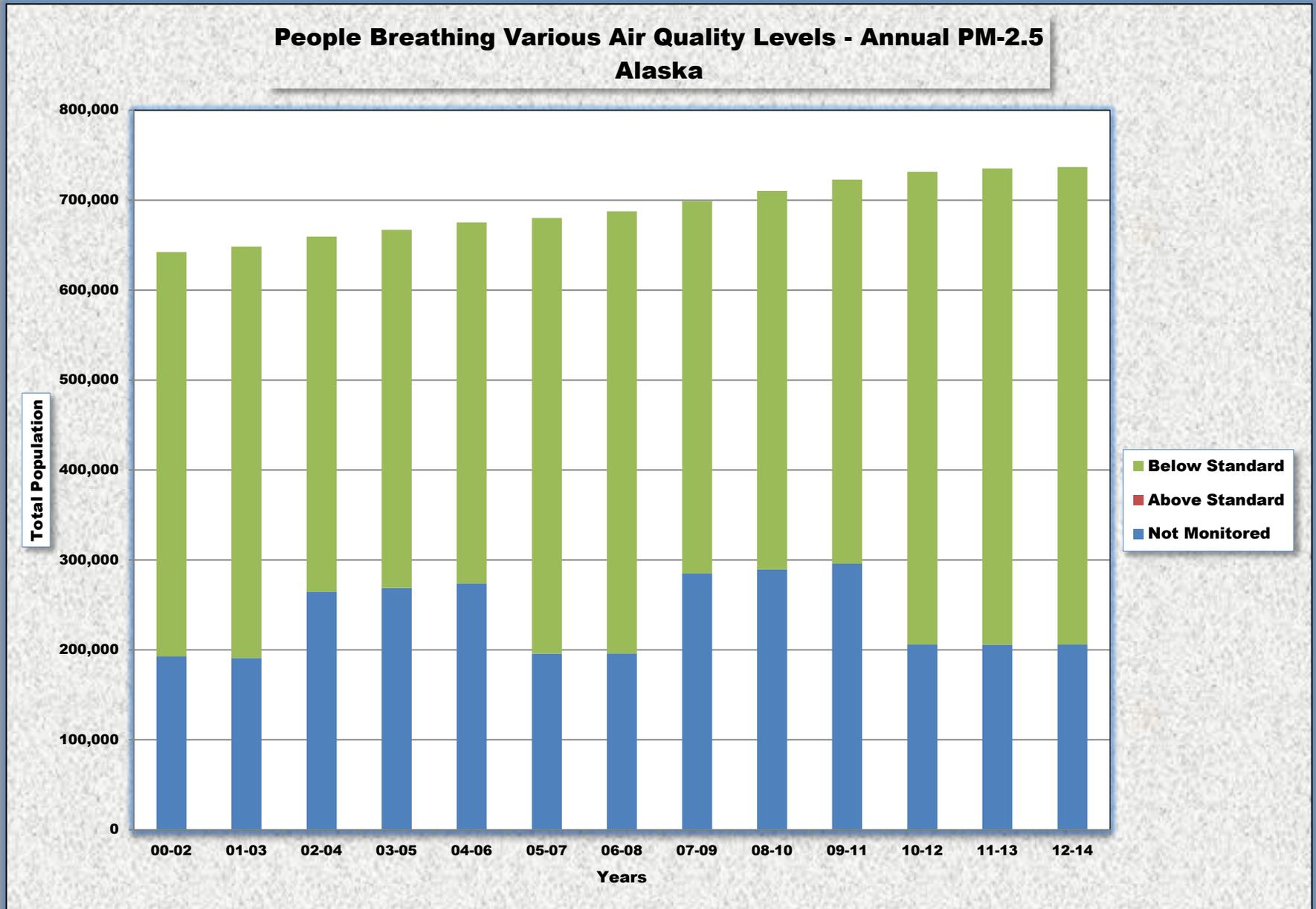


Figure AK-3



ARIZONA

Ozone

Significant progress has been made in ozone levels in Arizona. In the 2000 – 2002 time period, approximately 1.6 million people (29.3%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to 5.4 million people (79.9%). Figure AZ-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Arizona have historically been better than the standard. In the 2000 – 2002 time period, approximately 3.5 million people (65.7%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this had increased to approximately 5.5 million people (82.3%). The remainder of the people in 2012 – 2014 lived in counties where PM-2.5 was not measured. Figure AZ-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Arizona have historically been better than the standard. In the 2000 – 2002 time period, approximately 3.5 million people (65.7%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 5.3 million people (79.3%). Figure AZ-3 shows the distribution of people by year.

Table AZ-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Cochise	127,448	0.071	C	N	ND	--	ND	--	--
Coconino	137,682	0.070	C	Y	ND	--	ND	--	--
Gila	53,119	0.074	C	N	ND	--	ND	--	--
La Paz	20,231	0.072	C	N	ND	--	ND	--	--
Maricopa	4,087,191	0.073	C	Y	20	A	8.5	A	Y
Navajo	108,101	0.070	C	N	ND	--	ND	--	--
Pima	1,004,516	0.066	B	Y	13	A	5.7	A	Y
Pinal	401,918	0.068	C	Y	22	A	9.9	B	Y
Santa Cruz	46,695	ND	--	--	24	A	9.3	A	N
Yavapai	218,844	0.071	C	N	ND	--	ND	--	--
Yuma	203,247	0.077	D	N	ND	--	ND	--	--
Subtotal	6,408,992								
Not Monitored	322,492								
Total	6,731,484								

DV = Design Value

ND = No Data

MM = Multiple Monitors

ARIZONA

**Table AZ-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	150,224	220,728	396,357	1,113,140	1,211,574	1,350,842	1,040,204	1,243,297	543,546	555,954	1,063,601
C	1,580,478	1,325,205	1,397,662	2,562,447	3,360,873	1,922,227	2,270,299	4,100,293	4,457,906	4,547,673	3,819,576	3,601,337	4,316,936
D	1,572,528	2,140,013	3,024,860	2,082,933	1,695,861	2,191,295	2,034,771	316,982	318,093	323,354	1,820,083	2,101,531	981,760
F	1,395,166	1,174,753	402,101	416,352	0	353,519	0	0	0	0	0	0	0
Subtotal	4,548,172	4,639,971	4,974,847	5,282,460	5,353,091	5,580,181	5,516,644	5,768,107	5,816,198	6,114,324	6,183,205	6,258,822	6,362,297
NM	848,083	870,393	677,557	556,617	576,050	587,500	763,718	575,047	575,814	368,181	370,050	367,802	369,187
Total	5,396,255	5,510,364	5,652,404	5,839,077	6,029,141	6,167,681	6,280,362	6,343,154	6,392,012	6,482,505	6,553,255	6,626,624	6,731,484

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,333,690	3,364,129	2,383,335	0	2,931,197	3,629,679	5,223,256	5,299,642	5,524,693	5,981,039	6,002,686	4,831,633	4,885,229
B	1,125,138	1,150,114	2,320,196	3,102,941	1,214,295	927,989	0	23,506	172,677	0	47,303	572,773	454,132
C	1,085,129	0	0	42,961	1,214,295	927,989	0	0	0	0	0	0	200,959
D	0	0	0	1,769,494	44,298	45,338	46,144	0	0	0	0	0	0
F	0	0	0	0	0	0	111,770	116,610	0	0	0	0	0
Subtotal	3,543,957	4,514,243	4,703,731	4,915,396	5,404,085	5,530,995	5,381,170	5,439,748	5,697,365	5,981,039	6,049,989	5,404,406	5,540,320
NM	1,852,298	996,121	948,873	923,681	625,056	636,686	899,192	903,406	694,647	501,466	503,266	1,222,218	1,191,164
Total	5,396,255	5,510,364	5,652,404	5,839,077	6,029,141	6,167,681	6,280,362	6,343,154	6,392,012	6,482,505	6,553,255	6,626,624	6,731,484

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	2,418,819	4,514,243	4,703,531	4,915,396	4,145,492	3,629,680	4,469,044	5,299,642	5,537,213	5,843,375	6,002,686	4,212,092	3,976,964
B	1,125,138	0	0	0	1,258,593	1,855,977	800,356	23,506	0	0	47,303	46,768	1,362,397
C	0	0	0	0	0	45,338	0	0	0	127,664	0	1,145,546	0
D	0	0	0	0	0	0	0	0	125,257	0	0	0	200,959
F	0	0	0	0	0	0	111,770	116,610	0	0	0	0	0
Subtotal	3,543,957	4,514,243	4,703,731	4,915,396	5,404,085	5,530,995	6,381,170	5,439,748	5,697,365	6,981,039	6,049,989	5,404,406	5,540,320
NM	1,852,298	996,121	948,873	923,681	625,056	636,686	899,192	903,406	694,647	501,466	603,266	1,222,218	1,191,164
Total	5,396,256	5,510,364	5,652,404	5,839,077	6,029,141	6,167,681	6,280,362	6,343,154	6,392,012	6,482,505	6,553,255	6,626,624	6,731,484

NM = Not Monitored

Figure AZ-1

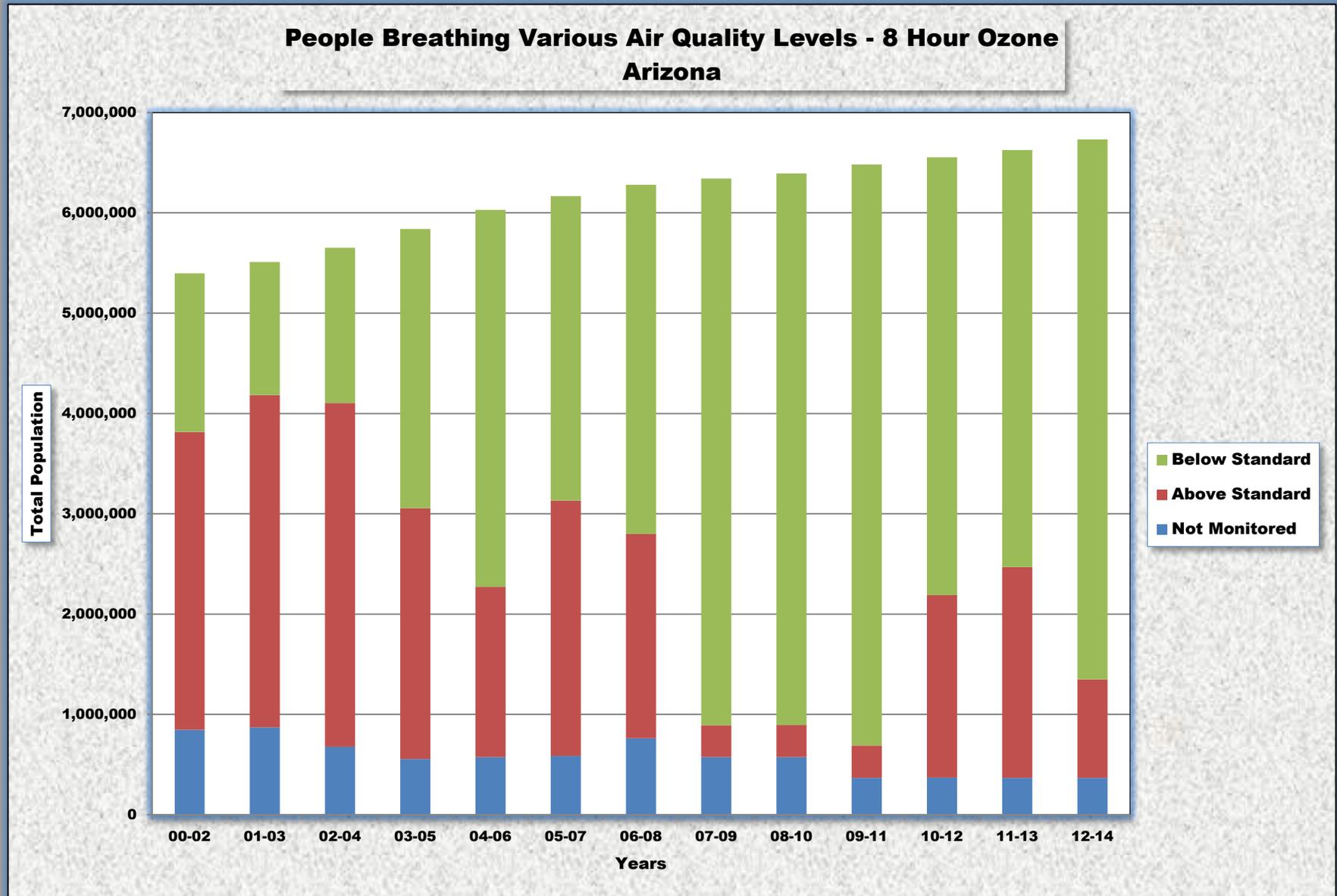


Figure AZ-2

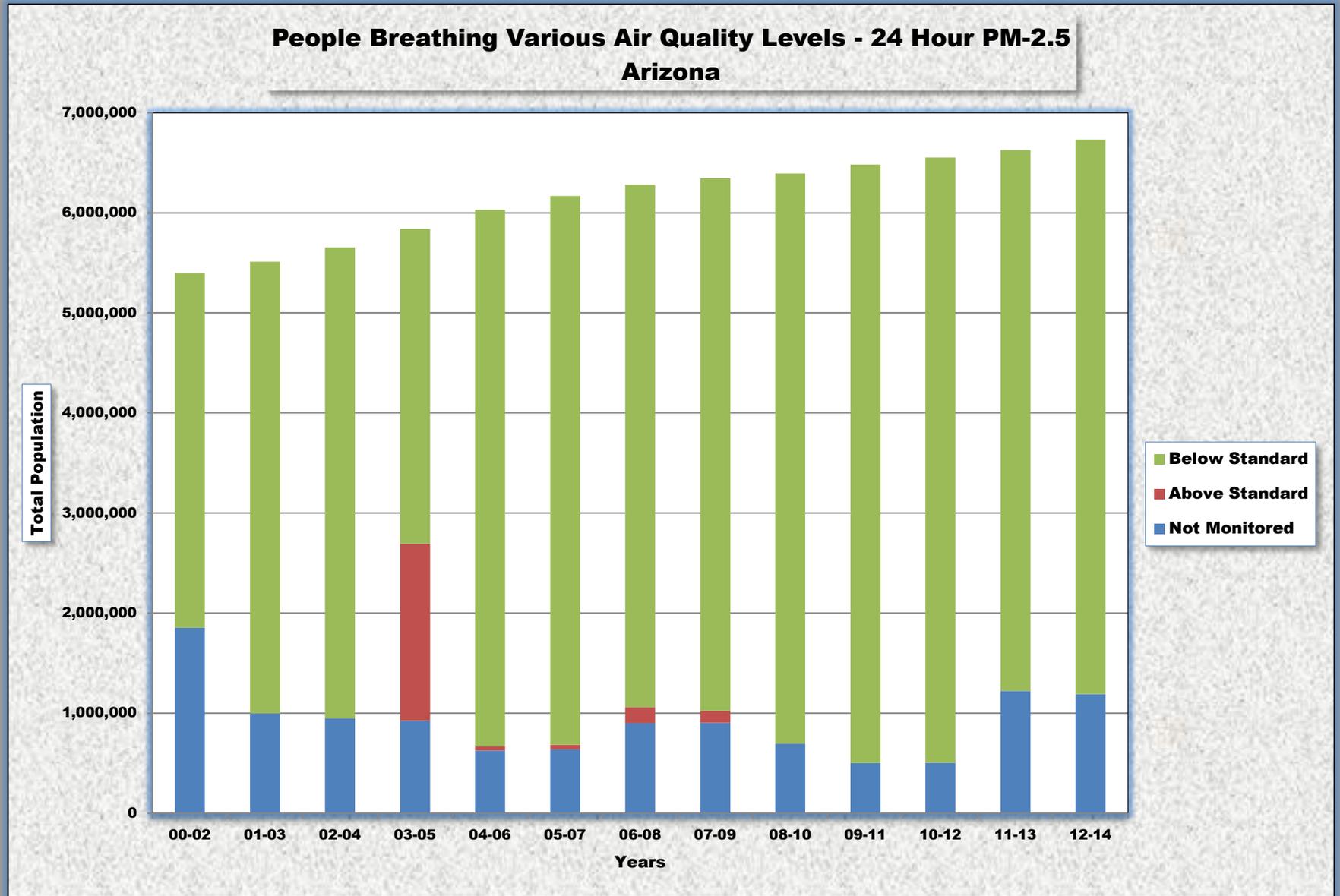
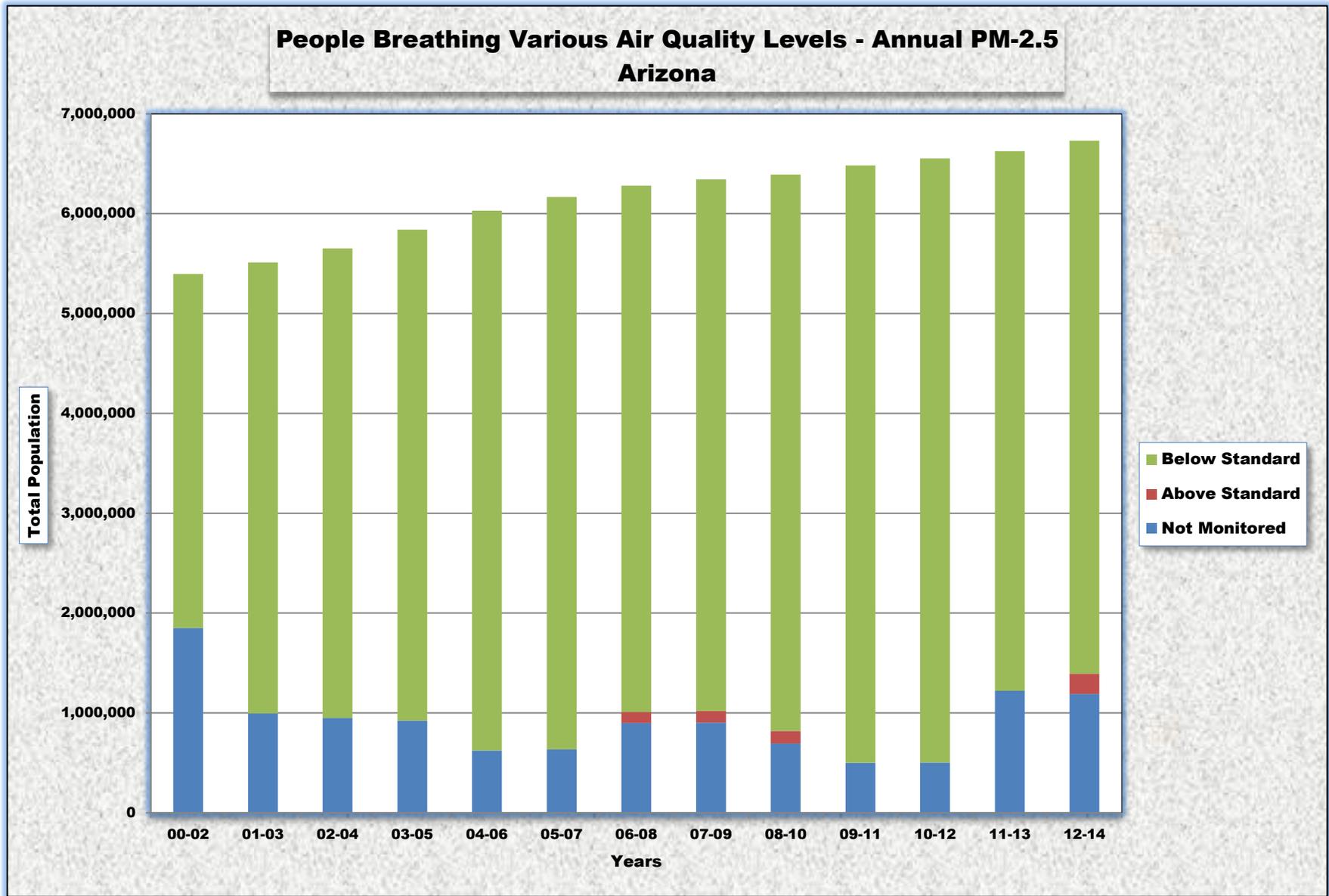


Figure AZ-3



ARKANSAS

Ozone

Progress has been made in ozone levels in Arkansas. In the 2000 – 2002 time period, approximately 9 thousand people (0.3%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 714 thousand people (24.1%). Figure AR-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Arkansas have historically been better than the standard. In the 2000 – 2002 time period, approximately 1 million people (38.2%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 – 2014 this had decreased to approximately 0.9 million people (29.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure AR-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Arkansas have historically been better than the standard. In the 2000 – 2002 time period, approximately 1 million people (38.2%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had decreased to approximately 0.9 million people (29.6%). The remainder of the population lived in areas where PM-2.5 was not measured. Figure AR-3 shows the distribution of people by year.

**Table AR-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Arkansas	18,594	ND	--	--	21	A	9.5	A	N
Ashley	20,948	ND	--	--	22	A	9.3	A	N
Clark	22,576	0.063	B	N	ND	--	ND	--	--
Crittenden	49,548	0.071	C	N	24	A	9.8	B	N
Garland	97,322	ND	--	--	21	A	9.7	B	N
Jackson	17,534	ND	--	--	21	A	9.3	A	N
Newton	7,904	0.065	B	N	ND	--	ND	--	--
Polk	20,225	0.067	B	N	23	A	9.8	B	N
Pulaski	392,702	0.070	C	Y	24	A	10.7	B	Y
Union	40,227	ND	--	--	21	A	9.2	A	N
Washington	220,792	0.068	C	N	20	A	9.2	A	N
Subtotal	908,372								
Not Monitored	2,057,997								
Total	2,966,369								

DV = Design Value

ND = No Data

MM = Multiple Monitors

ARKANSAS

Table AR-2

People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	9,239	0	0	0	0	0	199,774	338,978	0	0	8,064	50,705
C	9,150	0	9,334	131,225	123,882	28,805	279,856	408,947	326,729	622,694	499,270	497,672	663,042
D	190,698	373,871	375,111	245,516	247,765	248,935	176,221	50,929	0	50,525	179,672	180,174	0
F	232,786	50,252	50,266	560,244	50,360	174,906	0	0	0	0	0	0	0
Subtotal	432,634	433,362	434,711	426,985	422,007	452,646	453,077	659,650	655,707	673,219	678,942	685,910	713,747
NM	2,273,293	2,291,454	2,314,975	2,354,112	2,399,754	2,396,004	2,418,477	2,237,193	2,250,211	2,264,760	2,270,189	2,273,463	2,252,622
Total	2,705,927	2,724,816	2,749,686	2,781,097	2,821,761	2,848,650	2,874,554	2,896,843	2,915,918	2,937,979	2,949,131	2,959,373	2,966,369

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	248,020	364,970	485,194	20,203	20,422	0	858,706	1,064,979	1,253,477	1,141,238	1,068,895	873,388	877,892
B	512,984	443,678	584,987	543,005	684,792	647,540	176,221	152,518	0	0	0	0	0
C	273,245	243,505	0	295,760	174,242	237,140	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,034,249	1,052,153	1,070,181	861,968	879,456	884,680	1,034,927	1,217,497	1,253,477	1,141,238	1,068,895	873,388	877,892
NM	1,671,678	1,672,663	1,679,505	1,919,129	1,942,305	1,963,970	1,839,627	1,679,346	1,662,441	1,796,741	1,880,236	2,085,985	2,088,477
Total	2,705,927	2,724,816	2,749,686	2,781,097	2,821,761	2,848,650	2,874,554	2,896,843	2,915,918	2,937,979	2,949,131	2,959,373	2,966,369

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	183,008	296,604	557,145	20,203	43,666	0	524,985	1,134,086	998,312	1,141,238	1,068,895	0	277,868
B	436,292	390,291	513,036	596,249	588,025	647,540	509,942	83,411	255,165	0	0	482,104	469,123
C	414,949	365,258	0	245,516	247,765	237,140	0	0	0	0	0	391,284	130,901
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,034,249	1,052,604	1,070,181	861,968	879,456	884,680	1,034,927	1,217,497	1,253,477	1,141,238	1,068,895	873,388	877,892
NM	1,671,678	1,672,663	1,679,505	1,919,129	1,942,305	1,963,970	1,839,827	1,679,346	1,662,441	1,796,741	1,880,236	2,085,985	2,088,477
Total	2,705,927	2,724,816	2,749,686	2,781,097	2,821,761	2,848,650	2,874,654	2,896,843	2,915,918	2,937,979	2,949,131	2,959,373	2,966,369

NM = Not Monitored

Figure AR-1

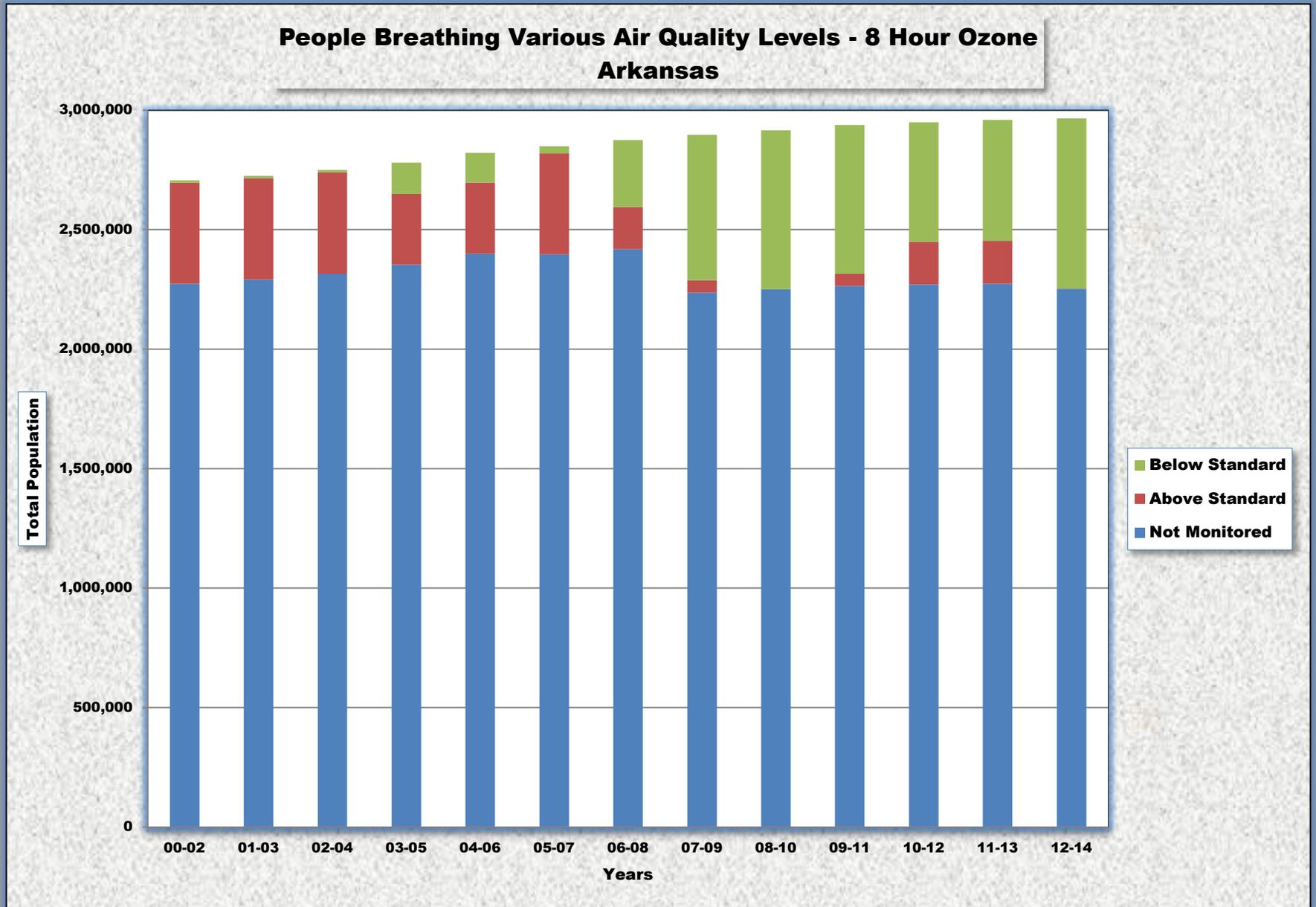


Figure AR-2

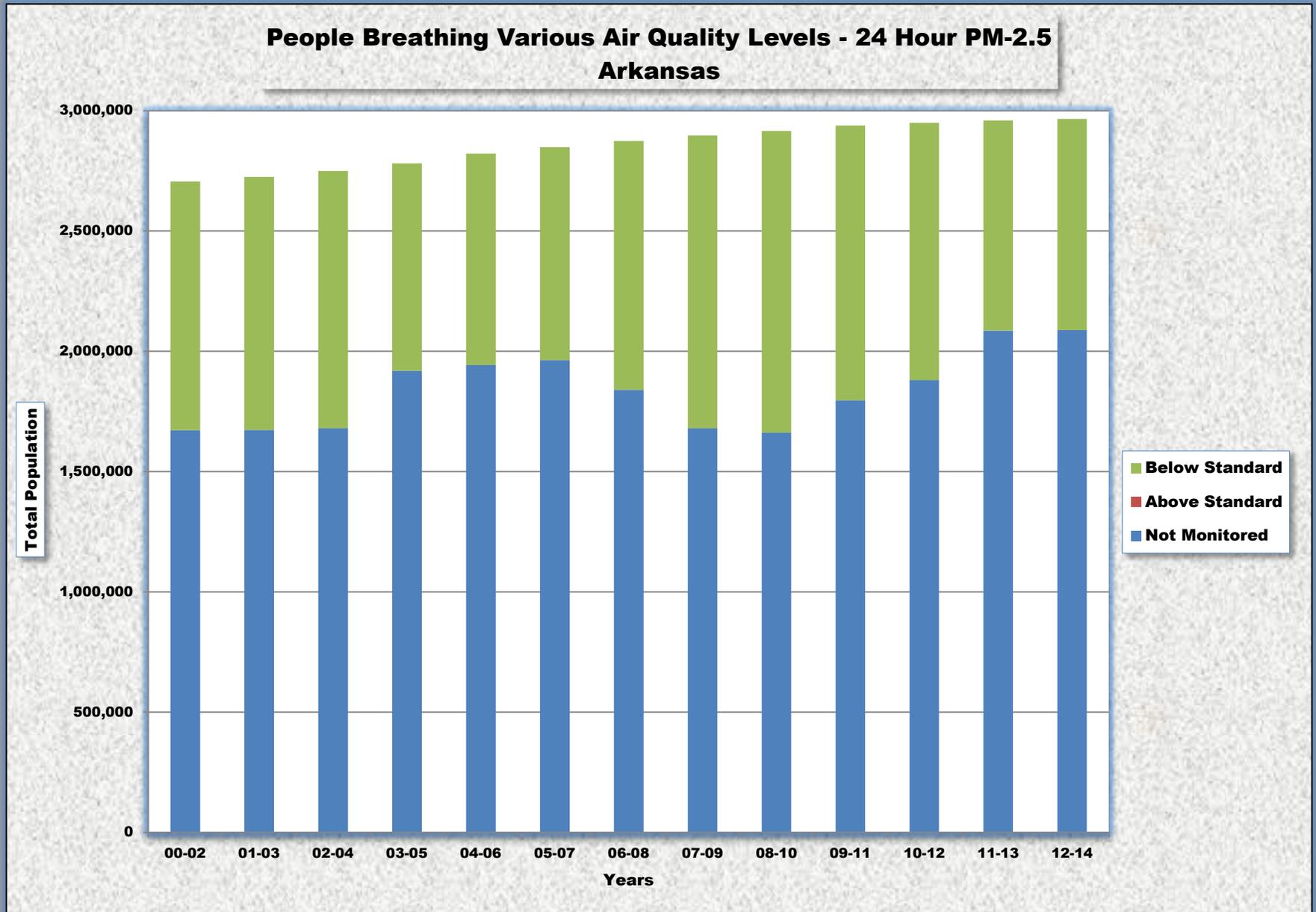
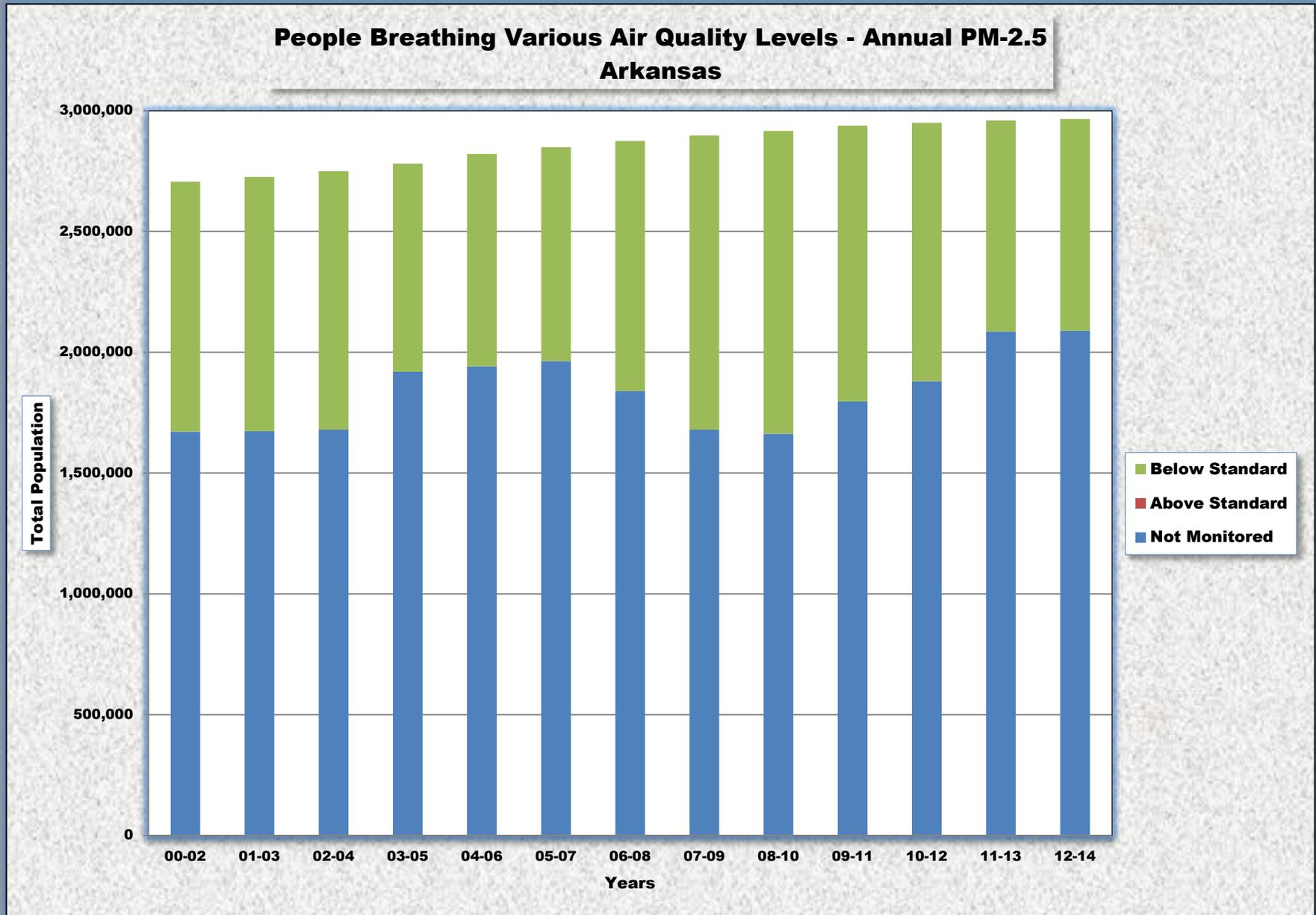


Figure AR-3



CALIFORNIA

Ozone

Progress has been made in ozone levels in California. In the 2000 – 2002 time period, approximately 17.0 million people (48.7%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 21.8 million people (56.1%). Figure CA-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in California. In the 2000 – 2002 time period, approximately 5.3 million people (15.3%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this had increased to approximately 33.5 million people (86.3%). Figure CA-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in California. In the 2000 – 2002 time period, approximately 11.6 million people (33.1%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 31.6 million people (81.4%). Figure CA-3 shows the distribution of people by year.

CALIFORNIA

Table CA-1 2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Alameda	1,610,921	0.056	A	Y	26	A	8.5	A	Y
Amador	36,742	0.072	C	N	ND	--	ND	--	--
Butte	224,241	0.074	C	N	26	A	8.5	A	N
Calaveras	44,624	0.071	C	N	19	A	8.0	A	N
Colusa	21,419	0.059	A	N	23	A	7.4	A	N
Contra Costa	1,111,339	0.061	B	Y	20	A	6.9	A	N
El Dorado	183,087	0.082	D	Y	ND	--	ND	--	--
Fresno	965,974	0.089	F	N	51	F	14.0	F	Y
Glenn	27,955	0.066	B	N	ND	--	ND	--	--
Humboldt	134,809	0.044	A	N	ND	--	ND	--	--
Imperial	179,091	0.076	D	Y	25	A	9.4	A	Y
Inyo	18,410	0.070	C	N	31	B	7.4	A	Y
Kern	874,589	0.083	F	Y	44	F	12.2	D	Y
Kings	150,269	ND	--	--	64	F	16.2	F	N
Lake	64,184	0.059	A	N	12	A	4.0	A	N
Los Angeles	10,116,705	0.081	D	Y	28	B	11.3	C	Y
Madera	154,548	0.079	D	N	24	A	8.7	A	N
Marin	260,750	0.056	A	N	22	A	9.9	B	N
Mariposa	17,682	0.077	D	Y	ND	--	ND	--	--
Merced	266,353	0.081	D	N	41	F	11.7	C	N
Monterey	431,344	0.055	A	Y	13	A	5.4	A	Y
Napa	141,667	0.059	A	N	ND	--	ND	--	--
Nevada	98,893	0.076	D	Y	18	A	5.6	A	N
Orange	3,145,515	0.069	C	Y	23	A	9.2	A	Y
Placer	371,694	0.077	D	Y	16	A	6.0	A	Y
Plumas	18,606	ND	--	--	33	C	9.6	B	N
Riverside	2,329,271	0.085	F	Y	26	A	10.4	B	Y
Sacramento	1,482,026	0.075	C	Y	27	A	9.0	A	Y
San Benito	58,267	0.065	B	Y	13	A	5.1	A	N
San Bernardino	2,112,619	0.093	F	Y	27	A	10.4	B	Y
San Diego	3,263,431	0.067	B	Y	20	A	9.4	A	Y
San Francisco	852,469	0.047	A	N	23	A	8.7	A	N
San Joaquin	715,597	0.074	C	Y	41	F	11.9	C	Y
San Luis Obispo	279,083	0.062	B	Y	22	A	8.4	A	Y
San Mateo	758,581	0.056	A	N	ND	--	ND	--	--
Santa Barbara	440,668	0.060	B	Y	16	A	8.2	A	Y
Santa Clara	1,894,605	0.065	B	Y	25	A	8.6	A	Y
Santa Cruz	271,804	0.053	A	N	13	A	6.0	A	N
Shasta	179,804	0.064	B	Y	16	A	5.7	A	N
Siskiyou	43,628	0.062	B	N	43	F	7.5	A	N
Solano	431,131	0.060	B	Y	26	A	9.6	B	N
Sonoma	500,292	0.054	A	Y	20	A	8.1	A	N
Stanislaus	531,997	0.078	D	N	50	F	13.4	F	Y
Sutter	95,847	0.070	C	Y	25	A	8.2	A	N
Tehama	63,067	0.073	C	Y	ND	--	ND	--	--
Tulare	458,198	0.085	F	Y	64	F	17.2	F	N
Tuolumne	53,831	0.073	C	N	ND	--	ND	--	--
Ventura	846,178	0.071	C	Y	18	A	8.9	A	Y
Yolo	207,590	0.066	B	Y	16	A	6.6	A	N
Subtotal	38,541,395								
Not Monitored	261,105								
Total	38,802,500								

DV = Design Value

ND = No Data

MM = Multiple Monitors

CALIFORNIA

**Table CA-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	6,086,205	3,153,161	3,146,017	4,013,053	3,839,218	5,931,500	5,659,429	3,707,252	4,387,085	5,909,224	6,900,298	7,385,767	5,456,094
B	4,936,790	4,365,533	3,715,604	4,548,363	5,012,218	4,478,223	4,617,279	5,114,458	4,563,096	6,376,025	6,814,069	8,741,184	7,837,256
C	5,953,354	6,067,827	6,115,762	6,396,084	5,919,280	6,532,781	5,745,764	7,995,888	9,549,737	9,194,134	7,491,730	5,169,896	8,475,587
D	6,746,861	4,832,444	4,852,385	4,004,029	4,542,846	3,205,668	4,668,272	5,038,001	4,905,460	5,503,171	6,319,475	5,454,764	5,602,877
F	10,697,237	16,474,125	16,730,328	16,499,136	15,848,701	15,237,573	15,403,399	14,908,234	13,650,821	10,511,891	9,483,740	11,150,448	11,000,706
Subtotal	34,420,446	34,893,100	34,560,096	35,460,665	35,162,263	35,385,744	36,094,143	36,763,833	37,056,199	37,494,445	37,009,312	37,902,059	38,372,520
NM	451,397	360,069	1,014,480	367,278	858,939	864,567	510,194	197,396	197,757	197,467	1,032,118	430,462	429,980
Total	34,871,843	35,253,159	35,574,576	35,827,943	36,021,202	36,250,311	36,604,337	36,961,229	37,253,956	37,691,912	38,041,430	38,332,521	38,802,500

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	2,465,958	4,886,447	5,243,941	5,028,084	5,497,001	6,471,402	8,093,213	10,775,709	12,188,063	11,412,195	18,117,195	21,431,609	24,844,521
B	1,792,199	1,832,108	1,833,523	4,418,520	3,874,592	4,729,249	6,048,854	4,210,636	8,190,057	8,022,937	10,828,624	8,525,909	5,533,788
C	1,075,614	925,888	2,320,252	2,389,769	3,654,395	3,817,075	1,085,688	3,275,072	6,541,661	6,652,796	1,938,202	2,471,376	3,110,134
D	19,832	2,393,939	1,329,069	2,973,793	2,064,425	1,486,061	4,505,142	2,891,789	1,834,424	478,368	396,626	829,550	746,010
F	25,072,536	23,108,245	21,616,601	17,393,296	18,644,038	15,854,019	10,794,241	8,270,806	1,886,411	4,447,968	2,834,157	3,998,699	2,889,521
Subtotal	30,426,138	33,146,627	32,343,386	32,203,462	31,934,451	32,357,805	30,527,138	29,424,012	30,639,616	31,014,272	34,114,954	37,257,143	37,123,974
NM	4,445,705	2,106,532	3,231,190	3,624,481	4,086,751	3,892,506	6,077,199	7,537,217	6,614,340	6,677,648	3,926,476	1,075,378	1,678,526
Total	34,871,843	35,253,159	35,574,576	35,827,943	36,021,202	36,250,311	36,604,337	36,961,229	37,253,956	37,691,912	38,041,430	38,332,521	38,802,500

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	5,204,355	10,178,757	11,658,730	13,822,837	13,822,644	15,349,159	13,175,853	13,014,861	19,540,329	19,147,211	23,942,374	13,342,840	15,913,280
B	5,135,775	2,630,354	1,914,908	2,617,530	2,383,525	2,491,344	2,864,258	7,647,742	5,056,069	4,447,329	5,527,545	7,596,050	8,215,598
C	1,214,904	4,628,578	4,283,321	1,234,614	2,885,465	5,207,102	5,881,887	2,849,209	5,097,260	2,27,475	1,779,913	4,818,586	7,469,800
D	5,113,104	1,748,821	492,613	2,693,324	3,630,121	1,077,818	4,394,993	4,523,462	442,179	1,986,357	1,906,695	5,496,216	3,085,837
F	13,778,866	13,960,116	13,993,613	11,835,157	9,233,459	8,232,383	4,015,771	1,388,737	503,779	3,165,892	530,349	6,003,451	2,439,459
Subtotal	30,426,138	33,146,627	32,343,386	32,203,462	31,934,451	32,357,805	30,527,138	29,424,012	30,639,616	31,014,272	34,114,954	37,257,143	37,123,974
NM	4,445,705	2,106,532	3,231,190	3,624,481	4,086,751	3,809,250	6,077,199	7,537,217	6,614,340	6,677,648	3,926,476	1,075,378	1,678,526
Total	34,871,843	35,253,159	35,574,576	35,827,943	36,021,202	36,250,311	36,604,337	36,961,229	37,253,956	37,691,912	38,041,430	38,332,521	38,802,500

NM = Not Monitored

Figure CA-1

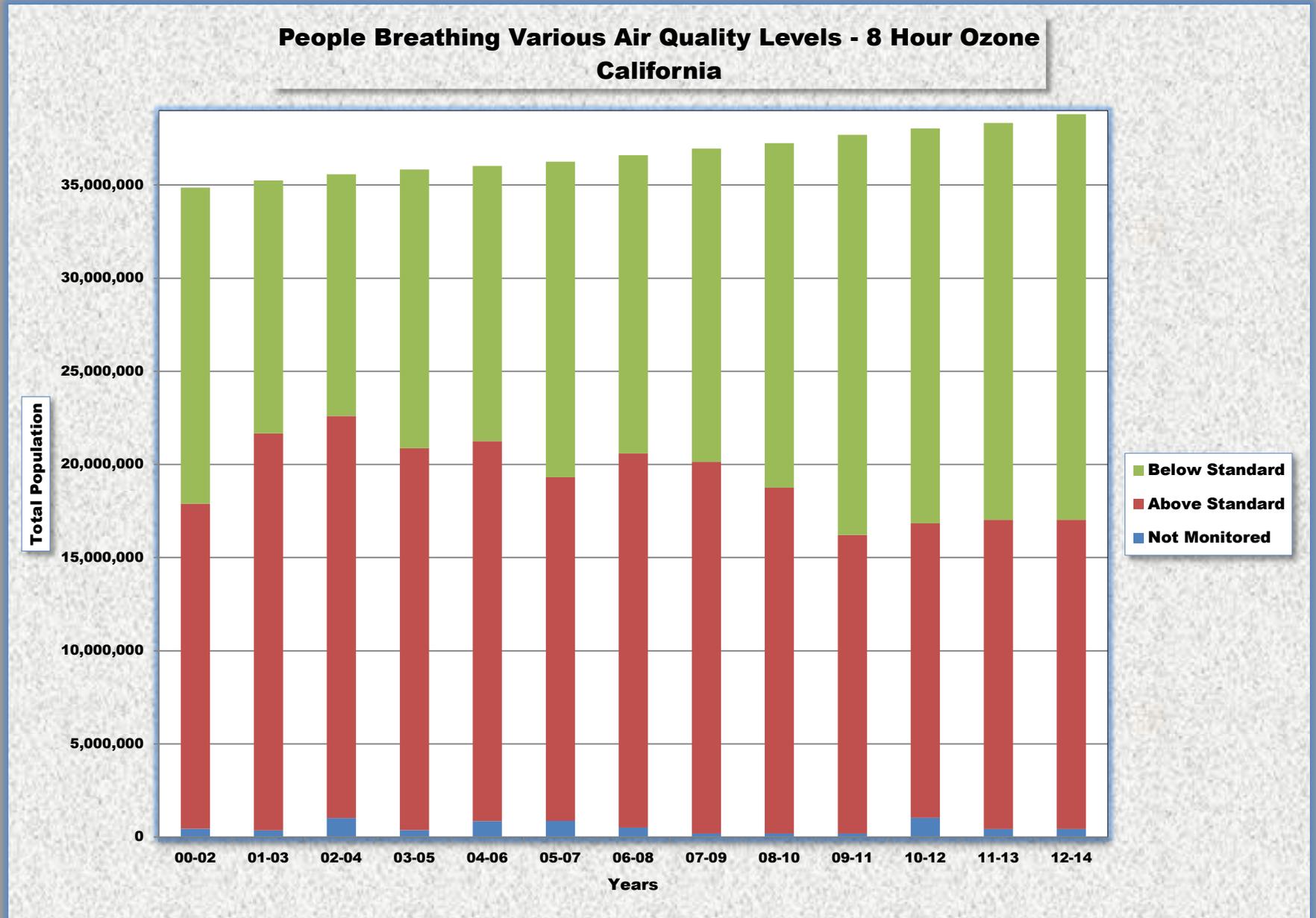


Figure CA-2

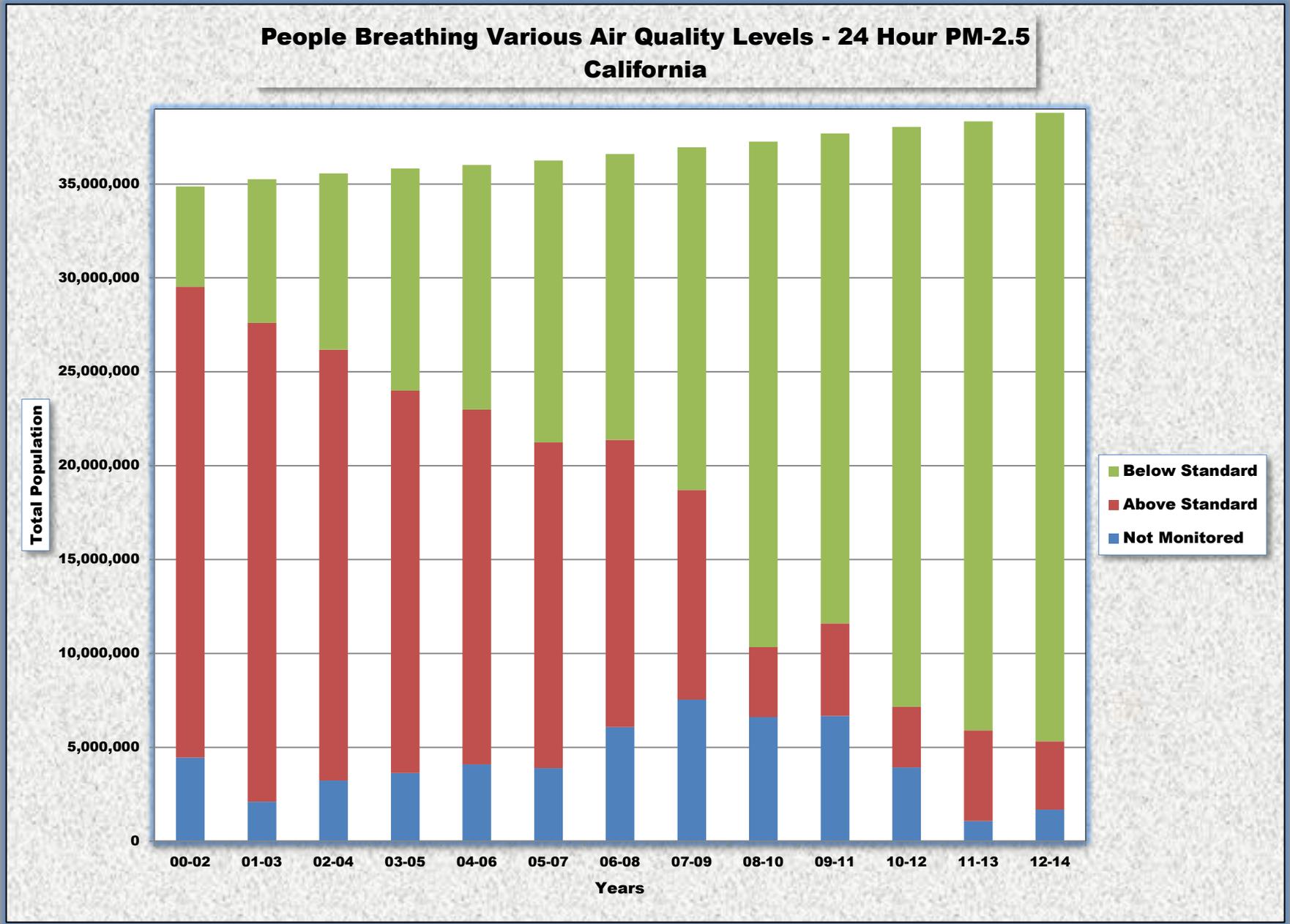
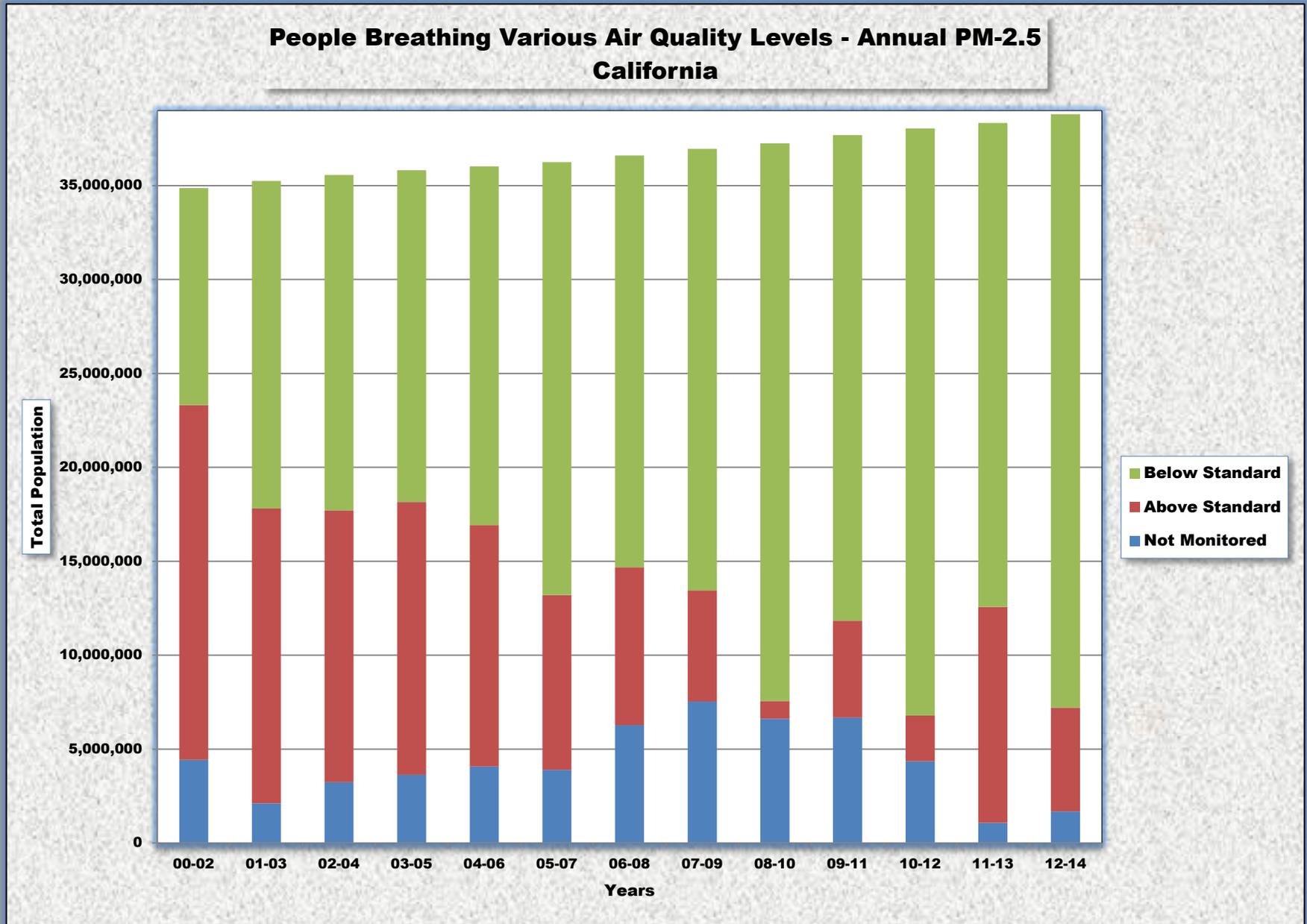


Figure CA-3



COLORADO

Ozone

Significant progress has been made in ozone levels in Colorado. In the 2000 – 2002 time period, approximately 2.0 million people (43.5%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 3.7 million people (69.1%). Figure CO-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Colorado have historically been better than the standard. In the 2000 – 2002 time period, approximately 2.7 million people (60.9%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this had increased to approximately 4.0 million people (74.7%). The remainder of the population lived in areas where PM-2.5 is not measured. Figure CO-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Colorado have historically been better than the standard. In the 2000 – 2002 time period, approximately 2.7 million people (60.9%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 4.0 million people (74.7%). The remainder of the population lived in areas where PM-2.5 is not measured. Figure CO-3 shows the distribution of people by year.

COLORADO

**Table CO-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Adams	480,718	0.071	C	N	25	A	8.5	A	N
Arapahoe	618,821	0.071	C	N	22	A	6.5	A	N
Boulder	313,333	0.074	C	N	21	A	6.7	A	Y
Denver	663,862	0.067	B	N	20	A	7.6	A	N
Douglas	314,638	0.078	D	N	17	A	5.8	A	N
El Paso	663,579	0.069	C	Y	16	A	6.2	A	N
Garfield	57,461	0.063	B	N	ND	--	ND	--	--
Jackson	1,396	0.060	B	N	ND	--	ND	--	--
Jefferson	558,503	0.074	C	Y	ND	--	ND	--	--
La Plata	53,989	0.068	C	Y	ND	--	ND	--	--
Larimer	324,122	0.074	C	Y	21	A	6.9	A	N
Mesa	148,255	0.066	B	N	27	A	7.5	A	N
Moffat	12,928	0.064	B	N	ND	--	ND	--	--
Montezuma	25,772	0.065	B	Y	11	A	5.6	A	N
Pueblo	161,875	ND	--	--	15	A	6.3	A	N
Rio Blanco	6,707	0.068	C	Y	18	A	8.9	A	N
Weld	277,670	0.072	C	N	26	A	7.6	A	Y
Subtotal	4,683,629								
Not Monitored	672,217								
Total	5,355,866								

DV = Design Value

ND = No Data

MM = Multiple Monitors

COLORADO

Table CO-2 People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	45,869	46,121	23,364	0	0	0	0	0	0	0	0	0	0
B	370,753	401,709	408,173	177,494	48,574	24,672	25,144	452,379	591,954	963,687	393,658	221,081	486,831
C	1,537,024	813,008	1,528,084	2,084,869	2,394,476	1,891,036	1,794,746	2,067,875	2,249,024	2,342,619	2,164,447	2,847,050	3,211,688
D	982,496	1,610,505	934,454	1,144,741	1,023,153	1,472,675	1,352,378	840,557	419,101	528,980	1,023,911	1,356,843	823,175
F	395,888	482,822	260,450	0	0	398,405	132,251	0	0	0	0	0	0
Subtotal	3,332,030	3,354,165	3,154,525	3,407,104	3,466,203	3,786,788	3,304,519	3,360,811	3,260,079	3,835,286	3,582,016	4,424,974	4,521,694
NM	1,158,376	1,174,567	1,420,488	1,224,784	1,254,220	1,017,080	1,585,211	1,611,384	1,769,117	1,281,510	1,605,566	843,393	834,172
Total	4,490,406	4,528,732	4,575,013	4,631,888	4,720,423	4,803,868	4,889,730	4,972,195	5,029,196	5,116,796	5,187,582	5,268,367	5,355,866

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	2,151,001	2,706,790	3,031,521	3,131,844	3,194,550	3,066,161	2,552,170	2,452,448	3,391,193	3,635,017	3,750,768	3,829,770	3,998,692
B	556,790	552,588	0	0	0	415,746	424,913	583,551	0	0	147,848	147,554	0
C	0	0	0	0	0	0	0	0	146,723	147,083	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,707,791	3,259,378	3,031,521	3,131,844	3,194,550	3,481,927	2,977,083	3,035,999	3,537,916	3,782,100	3,898,614	3,977,324	3,998,692
NM	1,782,615	1,269,354	1,543,492	1,500,044	1,525,873	1,321,941	1,912,647	1,936,196	1,491,280	1,334,696	1,288,966	1,291,043	1,357,174
Total	4,490,406	4,528,732	4,575,013	4,631,888	4,720,423	4,803,868	4,889,730	4,972,195	5,029,196	5,116,796	5,187,582	5,268,367	5,355,866

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	2,707,791	3,259,378	3,031,521	3,131,844	3,194,550	3,481,927	2,977,083	3,035,999	3,537,916	3,782,100	3,898,616	3,977,324	3,998,692
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,707,791	3,259,378	3,031,521	3,131,844	3,194,550	3,481,927	2,977,083	3,035,999	3,537,916	3,782,100	3,898,616	3,977,324	3,998,692
NM	1,782,615	1,269,354	1,543,492	1,500,044	1,515,873	1,321,941	1,912,647	1,936,196	1,491,280	1,334,696	1,288,966	1,291,043	1,357,174
Total	4,490,406	4,528,732	4,575,013	4,631,888	4,720,423	4,803,868	4,889,730	4,972,195	5,029,196	5,116,796	5,187,582	5,268,367	5,355,866

NM = Not Monitored

Figure CO-1

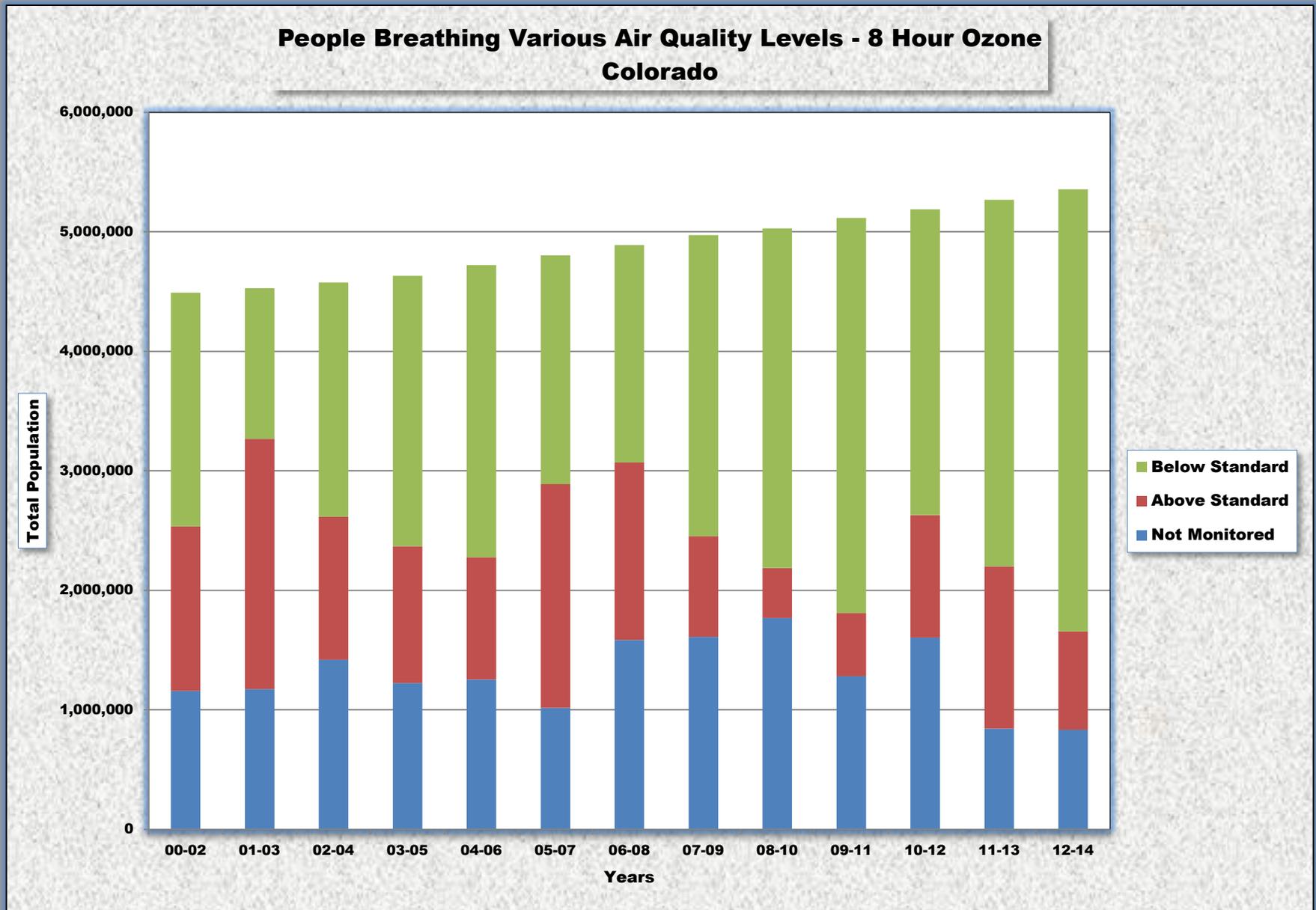


Figure CO-2

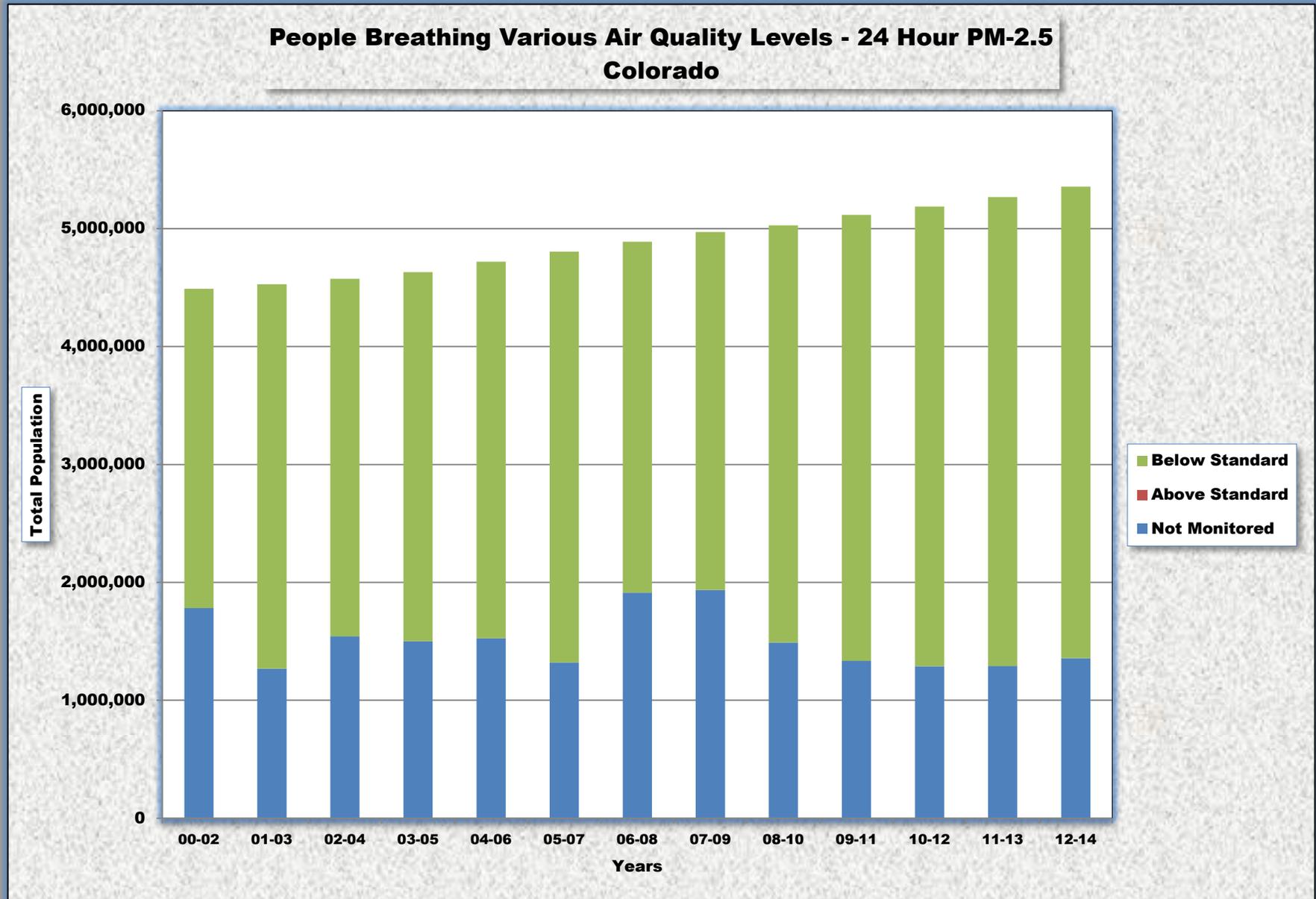
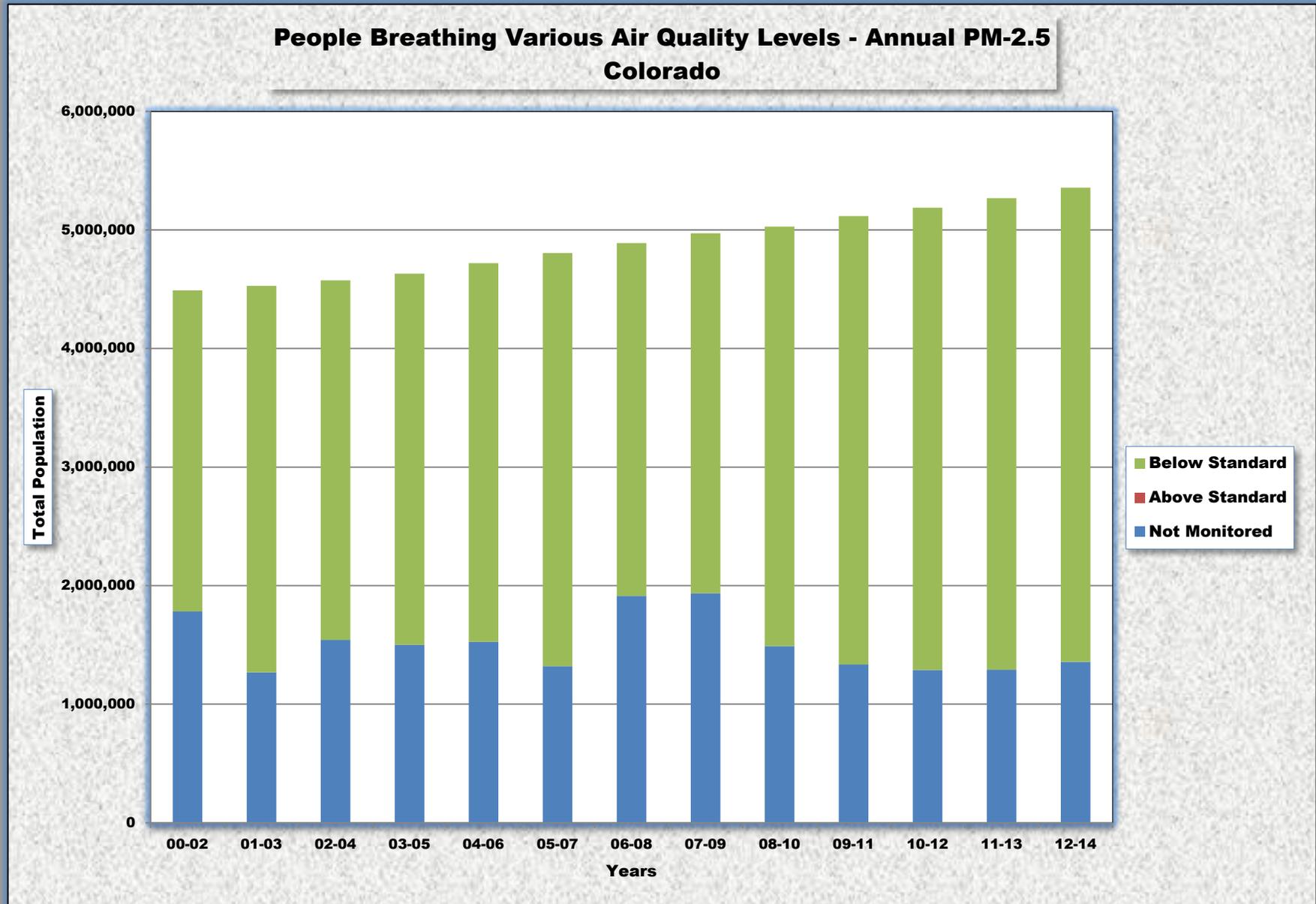


Figure CO-3



CONNECTICUT

Ozone

Progress has been made in ozone levels in Connecticut. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had decreased to approximately 302,000 people (8.4%). Figure CT-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Connecticut. In the 2000 – 2002 time period, approximately 1.8 million people (53.4%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this had increased to approximately 2.9 million people (80.3%). In 2012 - 2014 the remainder of the population lived in areas where PM-2.5 is not measured. Figure CT-2 shows the distribution of people by year.

Annual PM-2.5

Progress has been made in annual PM-2.5 levels in Connecticut. In the 2000 – 2002 time period, approximately 2.7 million people (76.7%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 2.9 million people (80.3%). The remainder of the population lived in areas where PM-2.5 is not measured. Figure CT-3 shows the distribution of people by year.

Table CT-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Fairfield	945,438	0.082	D	Y	23	A	8.2	A	Y
Hartford	897,985	0.077	D	N	21	A	7.8	A	Y
Litchfield	184,993	0.069	C	N	13	A	5.3	A	N
Middlesex	164,943	0.081	D	N	ND	--	ND	--	--
New Haven	861,277	0.076	D	N	23	A	8.3	A	Y
New London	273,676	0.079	D	N	ND	--	ND	--	--
Tolland	151,367	0.080	D	N	ND	--	ND	--	--
Windham	116,998	0.070	C	N	ND	--	ND	--	--
Subtotal	3,596,677								
Not Monitored	0								
Total	3,596,677								

DV = Design Value

ND = No Data

MM = Multiple Monitors

CONNECTICUT

Table CT-2

People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	431,239	0	0	0	0
C	0	0	0	0	0	0	0	430,013	1,083,941	1,666,558	1,084,789	1,085,196	301,992
D	0	0	0	878,081	425,104	426,799	428,311	2,786,077	1,023,661	1,796,001	1,454,124	1,492,527	2,821,966
F	3,161,697	2,287,917	3,381,778	2,351,048	2,785,897	2,983,217	2,726,846	227,605	916,829	0	933,835	900,753	472,719
Subtotal	3,161,697	2,287,917	3,381,778	3,229,129	3,211,001	3,410,016	3,155,157	3,443,695	3,455,670	3,462,559	3,472,748	3,478,476	3,596,677
NM	297,052	1,196,419	114,316	277,827	306,459	117,254	390,422	118,112	118,427	118,150	117,599	117,604	0
Total	3,458,749	3,484,336	3,496,094	3,506,956	3,517,460	3,527,270	3,545,579	3,561,807	3,574,097	3,580,709	3,590,347	3,596,080	3,596,677

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	189,866	462,809	1,461,317	2,333,110	2,856,970	3,155,607	3,161,537	2,889,693
B	698,424	0	268,595	0	1,152,112	1,155,217	1,737,083	1,334,441	804,192	287,038	0	0	0
C	1,148,908	1,482,756	1,694,434	1,795,739	1,182,315	1,580,376	911,254	0	0	0	0	0	0
D	804,041	1,184,957	640,490	673,240	564,146	170,720	0	0	0	0	0	0	0
F	208,776	210,485	281,502	423,581	0	0	0	0	0	0	0	0	0
Subtotal	2,660,149	2,878,198	2,885,021	2,892,560	2,898,573	3,096,179	3,111,146	2,795,758	3,137,302	3,144,008	3,155,607	3,161,537	2,889,693
NM	598,601	606,136	611,073	614,396	618,887	431,091	434,433	766,049	436,795	436,701	434,740	434,543	706,984
Total	3,458,749	3,484,336	3,496,094	3,506,956	3,517,460	3,527,270	3,525,579	3,561,807	3,574,097	3,580,709	3,590,347	3,596,080	3,596,677

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	907,198	913,736	1,322,538	1,372,158	1,546,217	8,55,629	2,487,910	2,795,758	3,137,302	3,144,008	3,155,607	3,161,537	2,889,693
B	1,326,626	1,543,494	1,280,981	1,520,402	1,352,356	2,240,550	623,236	0	0	0	0	0	0
C	417,550	210,485	0	0	0	0	0	0	0	0	0	0	0
D	208,775	210,485	281,502	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,660,149	2,878,198	2,885,021	2,892,560	2,898,573	3,096,179	3,111,146	2,795,758	3,137,302	3,144,008	3,155,607	3,161,537	2,889,693
NM	598,601	606,136	611,073	614,396	618,887	431,091	434,433	766,049	436,795	436,701	434,740	434,543	706,984
Total	3,458,749	3,484,336	3,496,094	3,506,956	3,517,460	3,527,270	3,525,579	3,561,807	3,574,097	3,580,709	3,590,347	3,596,080	3,596,677

NM = Not Monitored

Figure CT-1

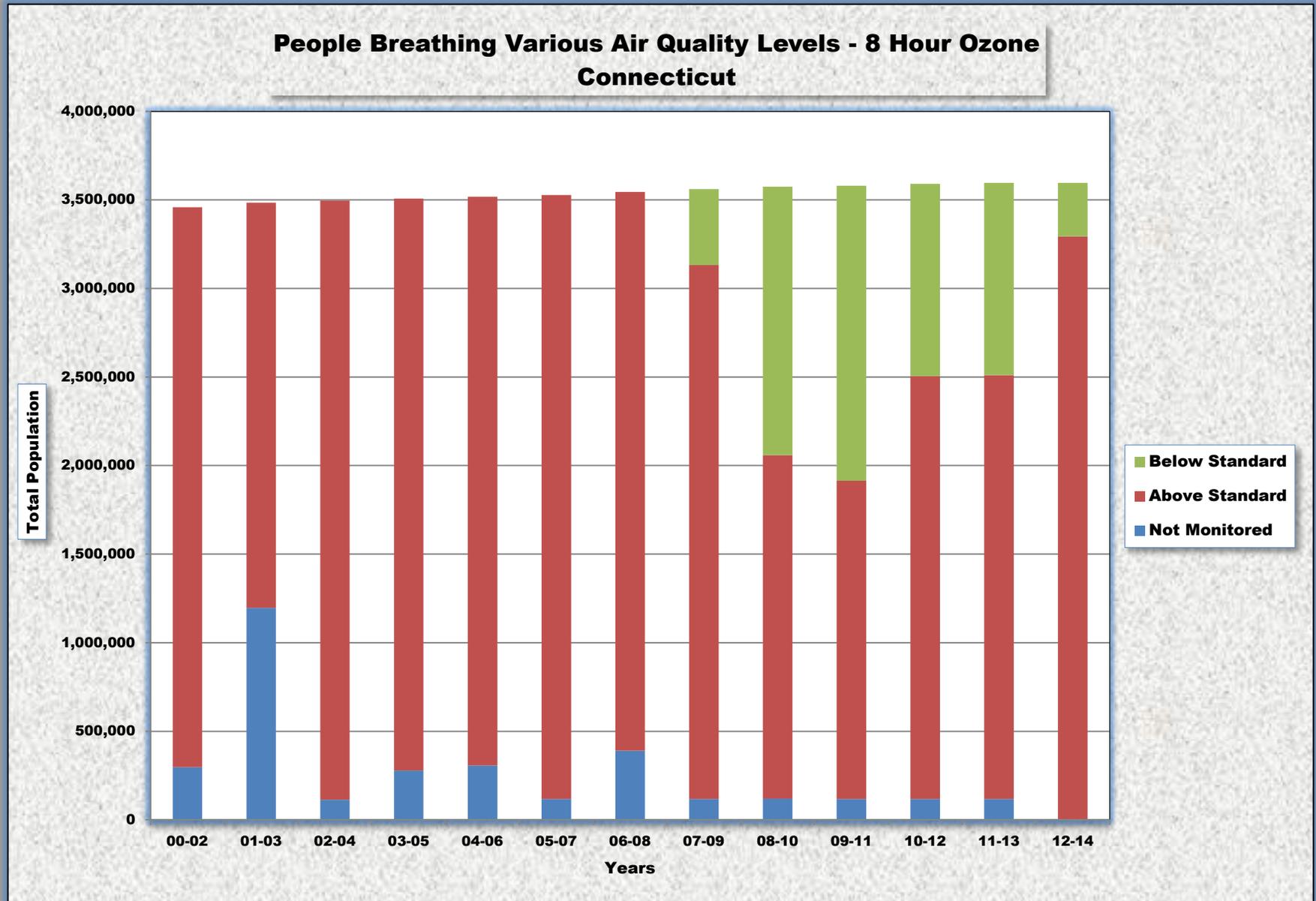


Figure CT-2

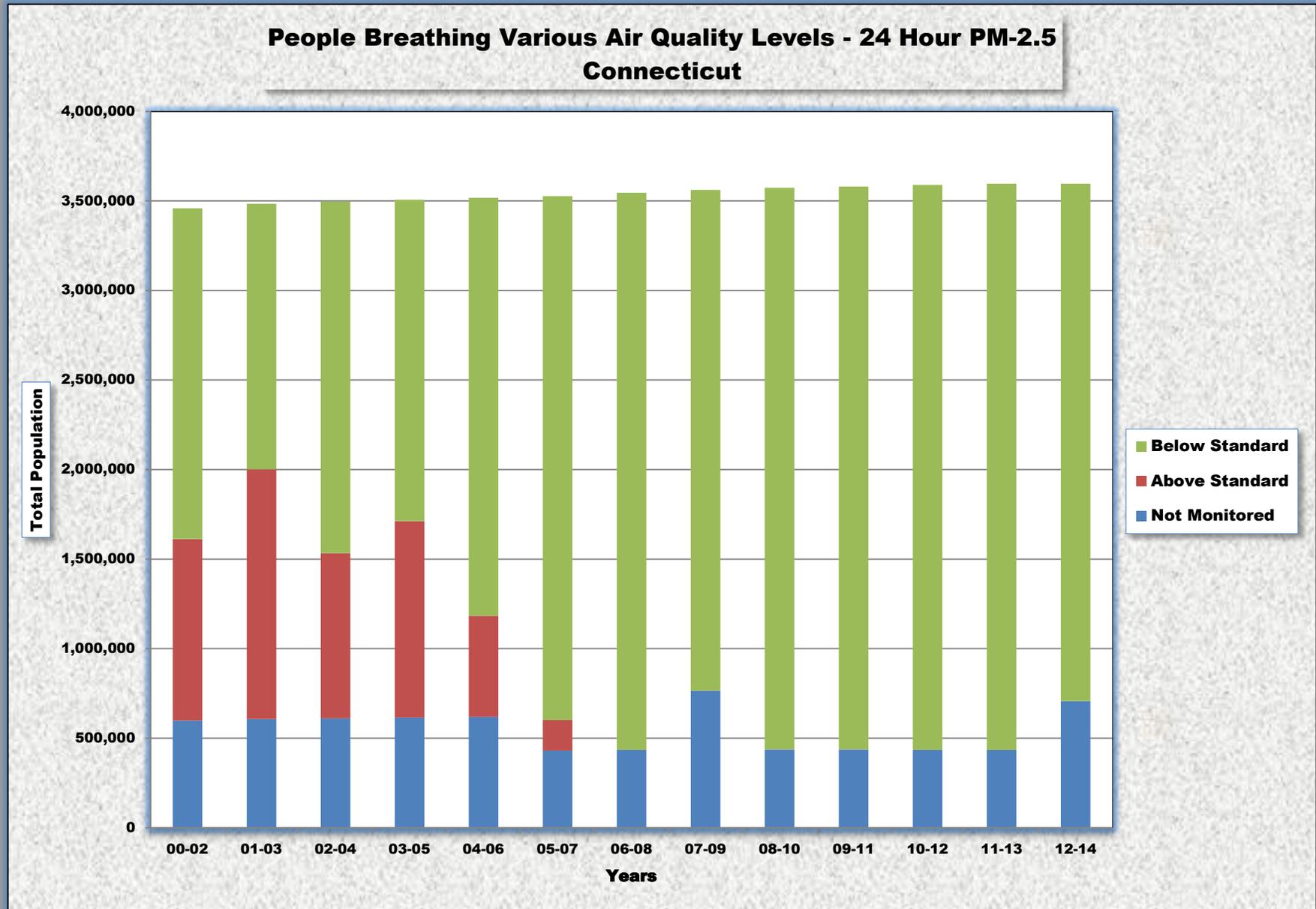
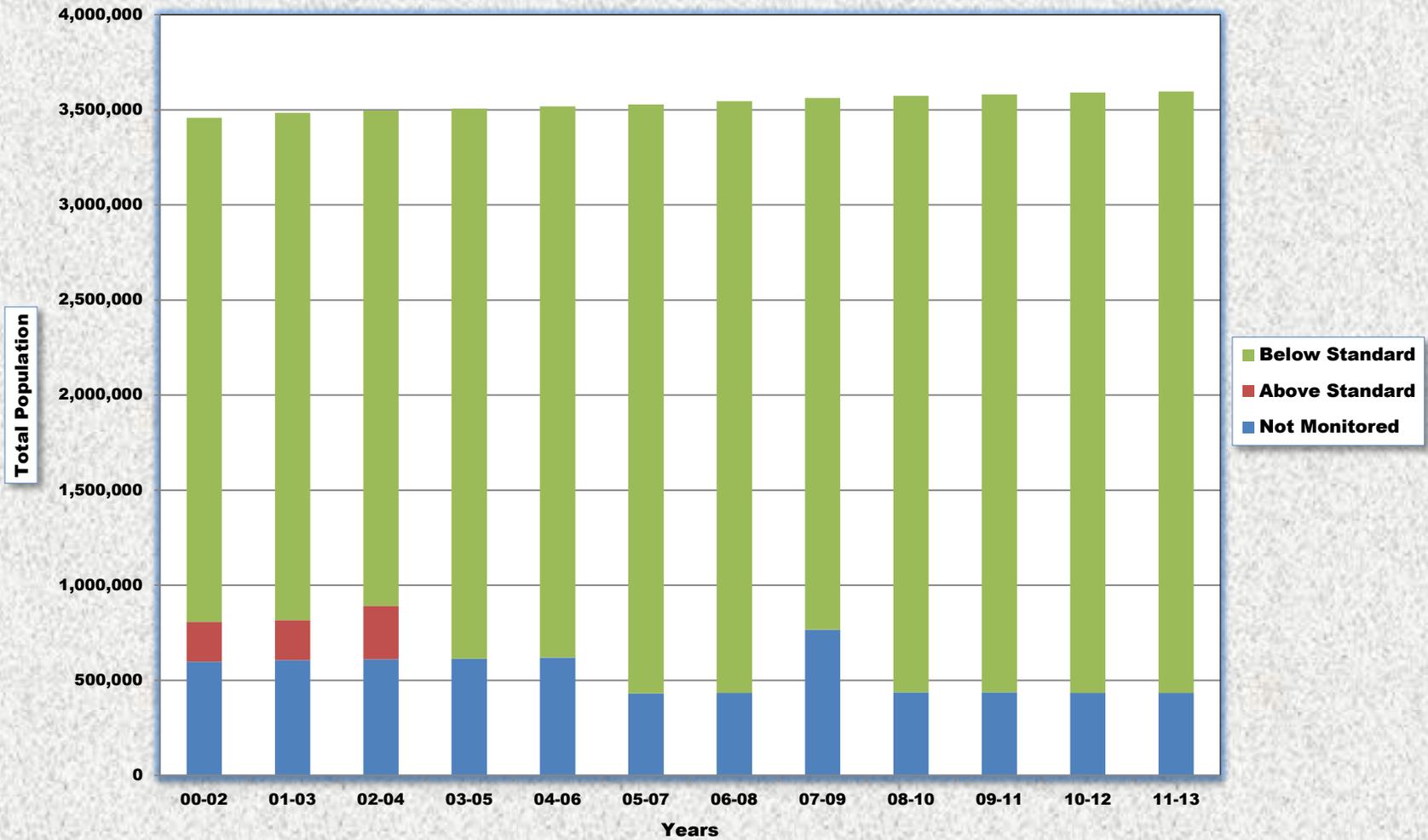


Figure CT-3

**People Breathing Various Air Quality Levels - Annual PM-2.5
Connecticut**



DELAWARE

Ozone

Significant progress has been made in ozone levels in Delaware. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2013 – 2014 approximately 0.9 million people (100.0%) lived in counties that met the ozone standard. Figure DE-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Delaware. In the 2000 – 2002 time period, approximately 0.26 million people (32.2%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 all people in Delaware lived in counties that met the 24-hour PM-2.5 standard. Figure DE-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in Delaware. In the 2000 – 2002 time period, approximately 0.55 million people (68.4%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 all people in Delaware lived in counties that met the annual PM-2.5 standard. Figure DE-3 shows the distribution of people by year.

**Table DE-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Kent	171,987	0.072	C	N	21	A	8.4	A	Y
New Castle	552,778	0.071	C	Y	23	A	9.2	A	Y
Sussex	210,849	0.072	C	Y	21	A	8.4	A	N
Subtotal	935,614								
Not Monitored	0								
Total	935,614								

DV = Design Value

ND = No Data

MM = Multiple Monitors

DELAWARE

**Table DE-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	696,979	700,789	535,984	0	685,003	935,614
D	0	0	0	756,539	859,268	694,897	705,888	194,751	197,145	371,151	917,092	240,746	0
F	806,169	818,003	830,803	88,611	0	176,852	177,986	0	0	0	0	0	0
Subtotal	806,169	818,003	830,803	845,150	859,268	871,749	883,874	891,730	897,934	907,135	917,135	925,749	935,614
NM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	806,169	818,003	830,803	845,150	859,268	871,749	883,874	891,730	897,934	907,135	917,135	925,749	935,614

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	489,056	763,314	907,135	917,092	925,749	935,614
B	0	0	0	0	74,852	76,985	616,895	268,449	134,620	0	0	0	0
C	259,364	195,995	528,550	714,314	652,622	662,125	266,979	134,225	0	0	0	0	0
D	127,540	493,316	302,253	130,836	131,794	132,639	0	0	0	0	0	0	0
F	419,265	128,692	0	0	0	0	0	0	0	0	0	0	0
Subtotal	806,169	818,003	830,803	845,150	859,268	871,749	883,874	891,730	897,934	907,135	917,135	925,749	935,614
NM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	806,169	818,003	830,803	845,150	859,268	871,749	883,874	891,730	897,934	907,135	917,135	925,749	935,614

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	153,969	291,415	489,056	897,934	907,135	917,092	650,907	797,420
B	131,824	303,234	441,595	452,643	463,887	452,502	458,969	402,674	0	0	0	274,842	138,194
C	419,266	386,077	389,208	392,507	395,381	265,278	133,490	0	0	0	0	0	0
D	255,079	128,692	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	806,169	818,003	830,803	845,150	859,268	871,749	883,874	891,730	897,934	907,135	917,135	925,749	935,614
NM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	806,169	818,003	830,803	845,150	859,268	871,749	883,874	891,730	897,934	907,135	917,135	925,749	935,614

NM = Not Monitored

Figure DE-1

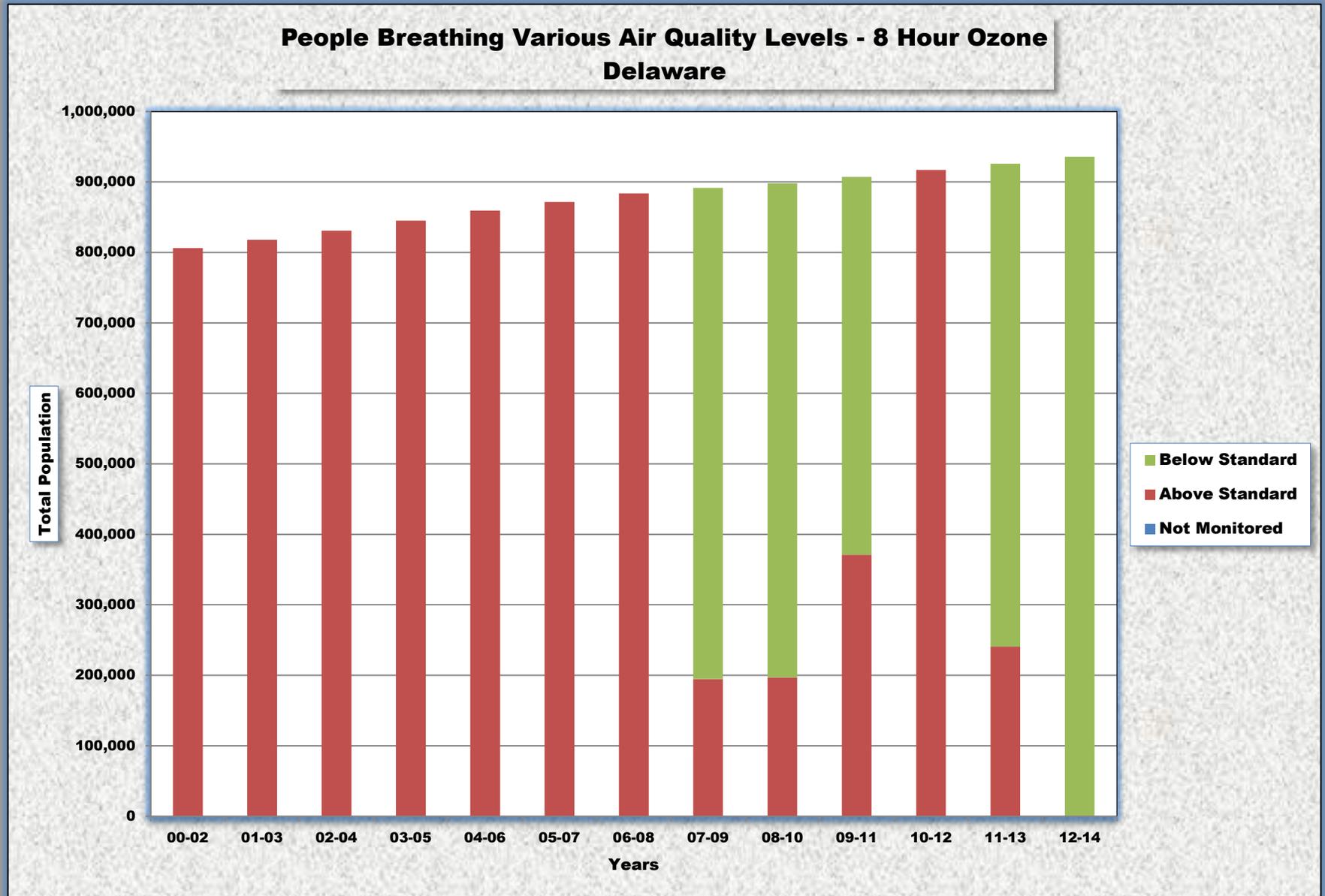


Figure DE-2

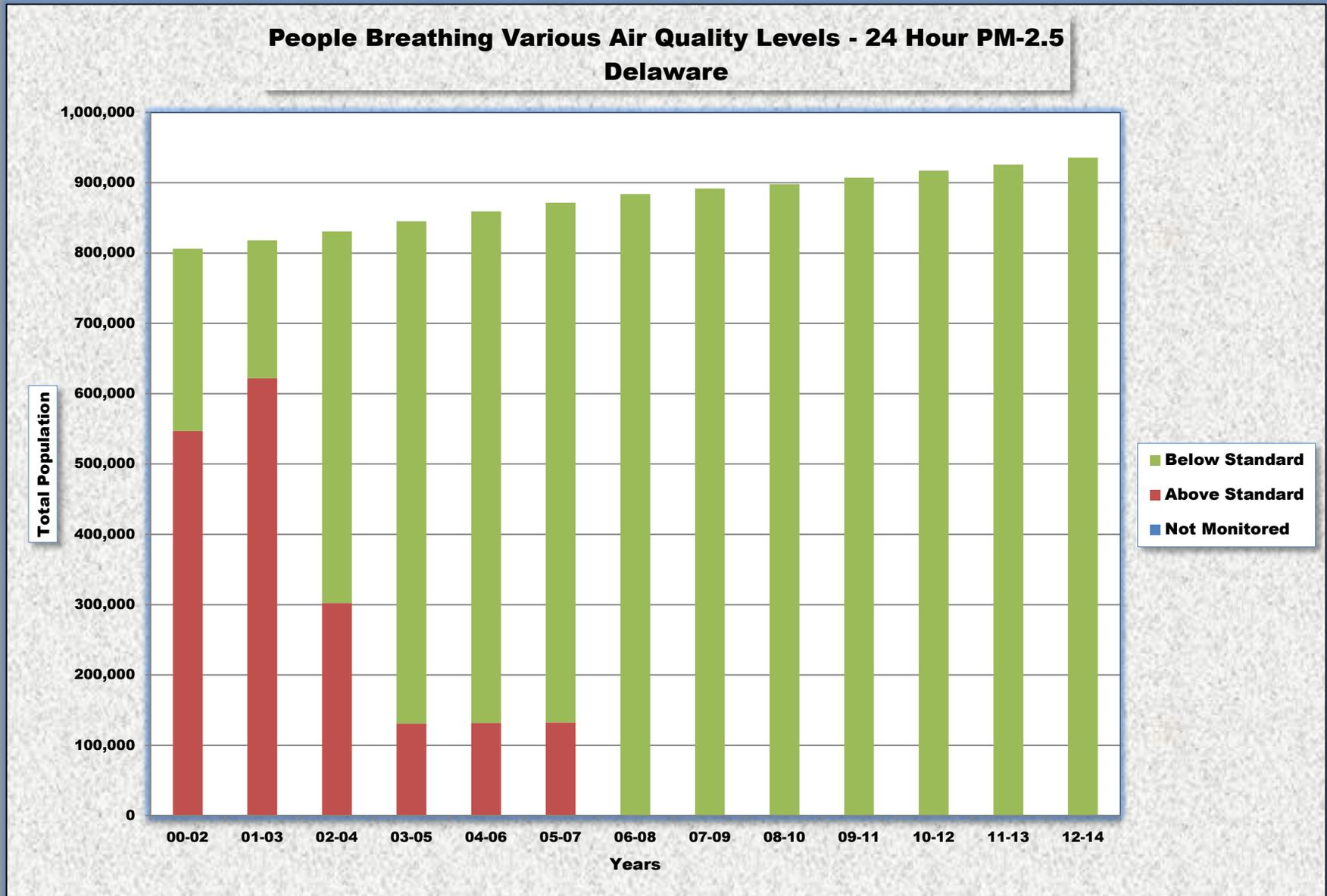
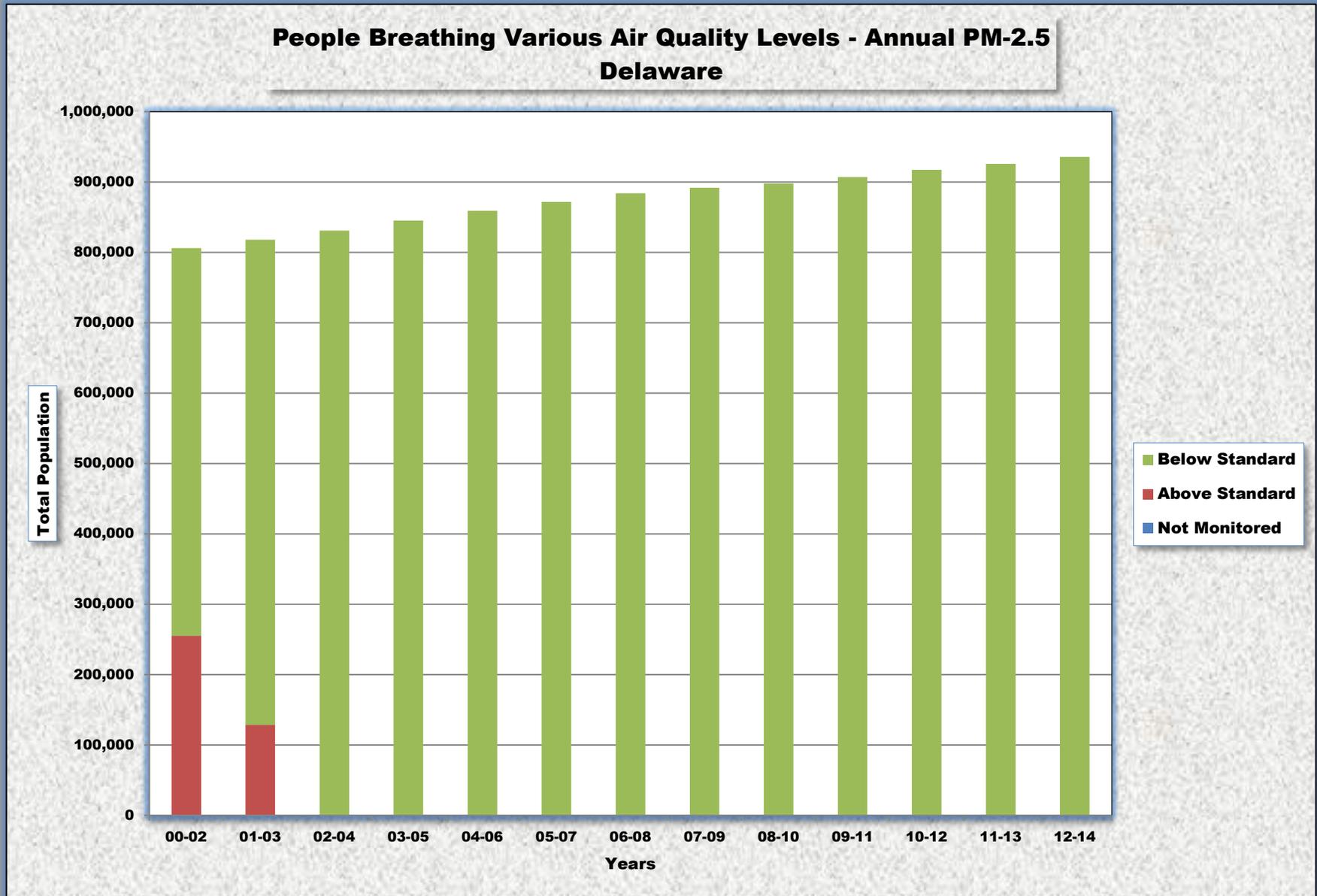


Figure DE-3



DISTRICT OF COLUMBIA

Ozone

Significant progress has been made in ozone levels in the District of Columbia. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 all people were breathing air that met the ozone standard. Figure DC-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in the District of Columbia. In the 2000 – 2002 time period, no people lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 – 2014 all people were breathing air that met the standard. Figure DC-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in the District of Columbia. In the 2000 – 2002 time period, no people lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 all people were breathing air that met the standard. Figure DC-3 shows the distribution of people by year.

**Table DC-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
DC	658,893	0.073	C	N	22	A	9.2	B	Y
Subtotal	658,893								
Not Monitored	0								
Total	658,893								

DV = Design Value

MM = Multiple Monitors

DISTRICT OF COLUMBIA

**Table DC-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	200,574	0	0	323,224	658,893
D	0	0	0	567,136	380,454	191,468	193,412	592,228	401,149	617,996	316,161	323,225	0
F	573,158	568,502	567,754	0	190,227	382,936	386,824	0	0	0	316,162	0	0
Subtotal	573,158	568,502	567,754	567,136	570,681	574,404	580,236	592,228	601,723	617,996	632,323	646,449	658,893
NM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	573,158	568,502	567,754	567,136	570,681	574,404	580,236	592,228	601,723	617,996	632,323	646,449	658,893

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	601,723	617,996	632,323	646,449	658,893
B	0	0	0	0	0	0	386,824	592,228	0	0	0	0	0
C	0	0	0	189,045	380,454	574,404	193,412	0	0	0	0	0	0
D	191,053	189,501	378,503	378,091	190,227	0	0	0	0	0	0	0	0
F	382,105	379,001	189,251	0	0	0	0	0	0	0	0	0	0
Subtotal	573,158	568,502	567,754	567,135	570,681	574,404	580,236	592,228	601,723	617,996	632,323	646,449	658,893
NM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	573,158	568,502	567,754	567,135	570,681	574,404	580,236	592,228	601,723	617,996	632,323	646,449	658,893

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	197,409	601,723	617,996	632,323	215,483	658,893
B	0	0	0	0	0	0	580,236	394,819	0	0	0	430,966	0
C	0	189,501	567,754	567,136	570,681	574,404	0	0	0	0	0	0	0
D	573,158	379,001	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	573,158	568,502	567,754	567,136	570,681	574,404	580,236	592,228	601,723	617,996	632,323	646,449	658,893
NM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	573,158	568,502	567,754	567,136	570,681	574,404	580,236	592,228	601,723	617,996	632,323	646,449	658,893

NM = Not Monitored

Figure DC-1

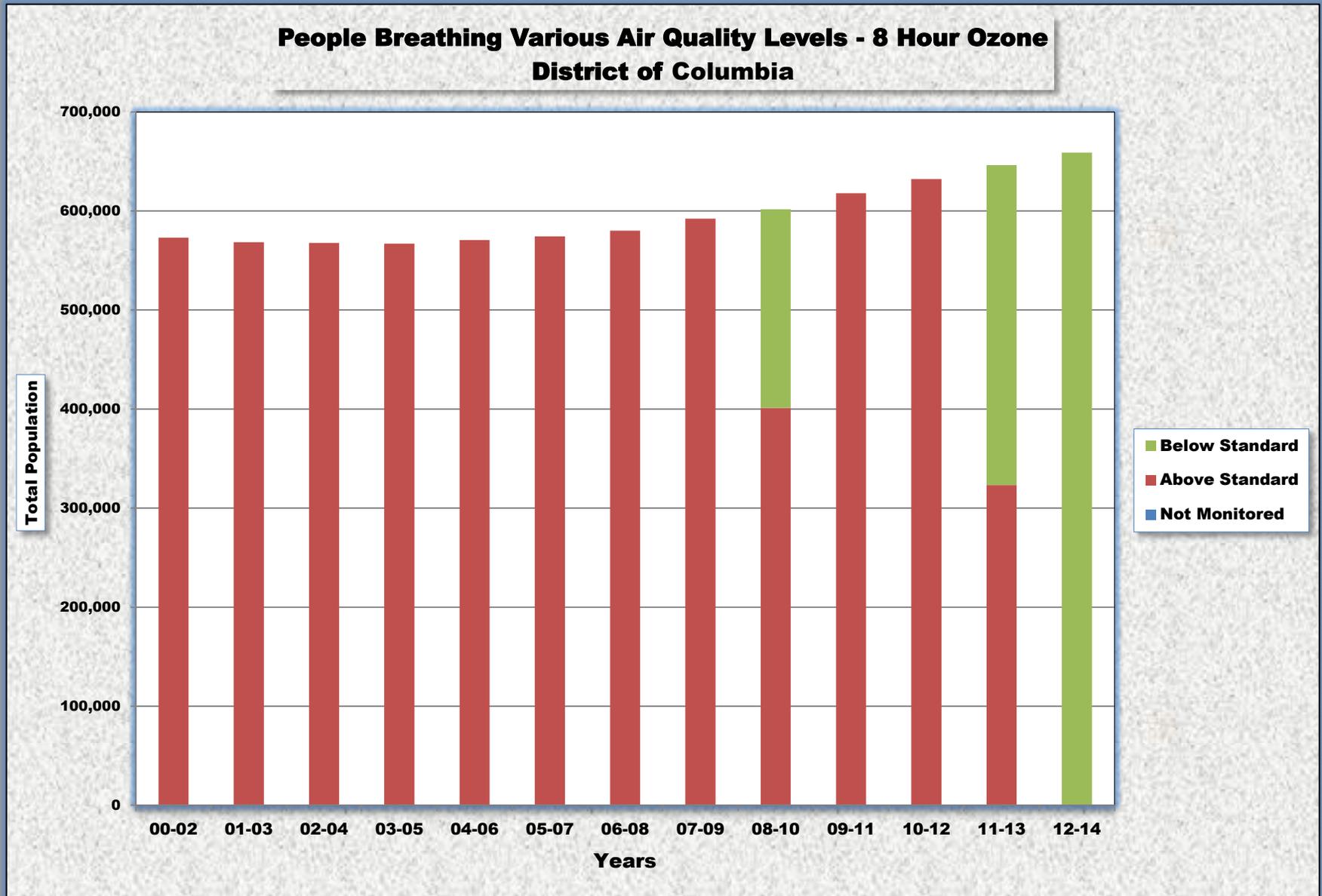


Figure DC-2

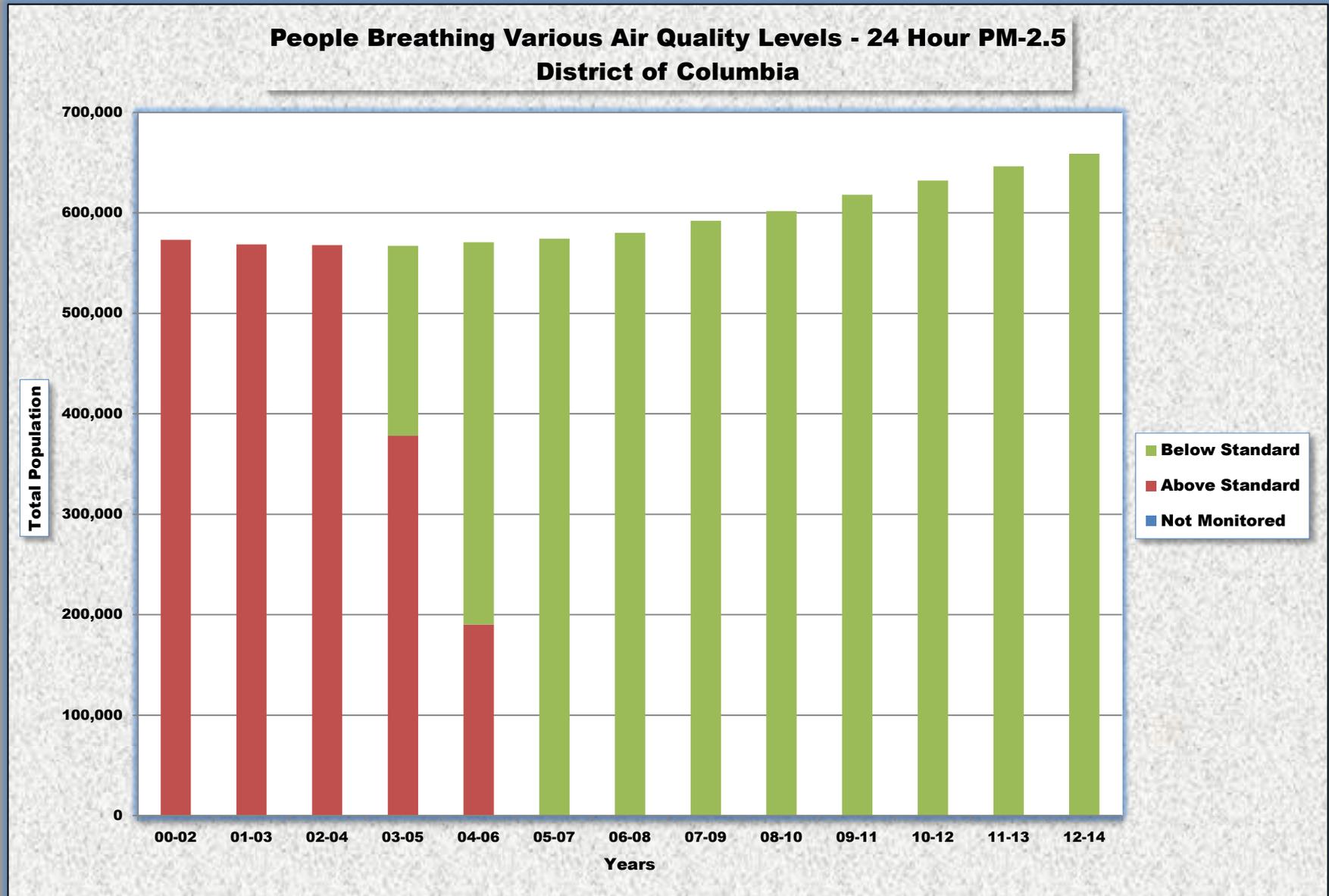
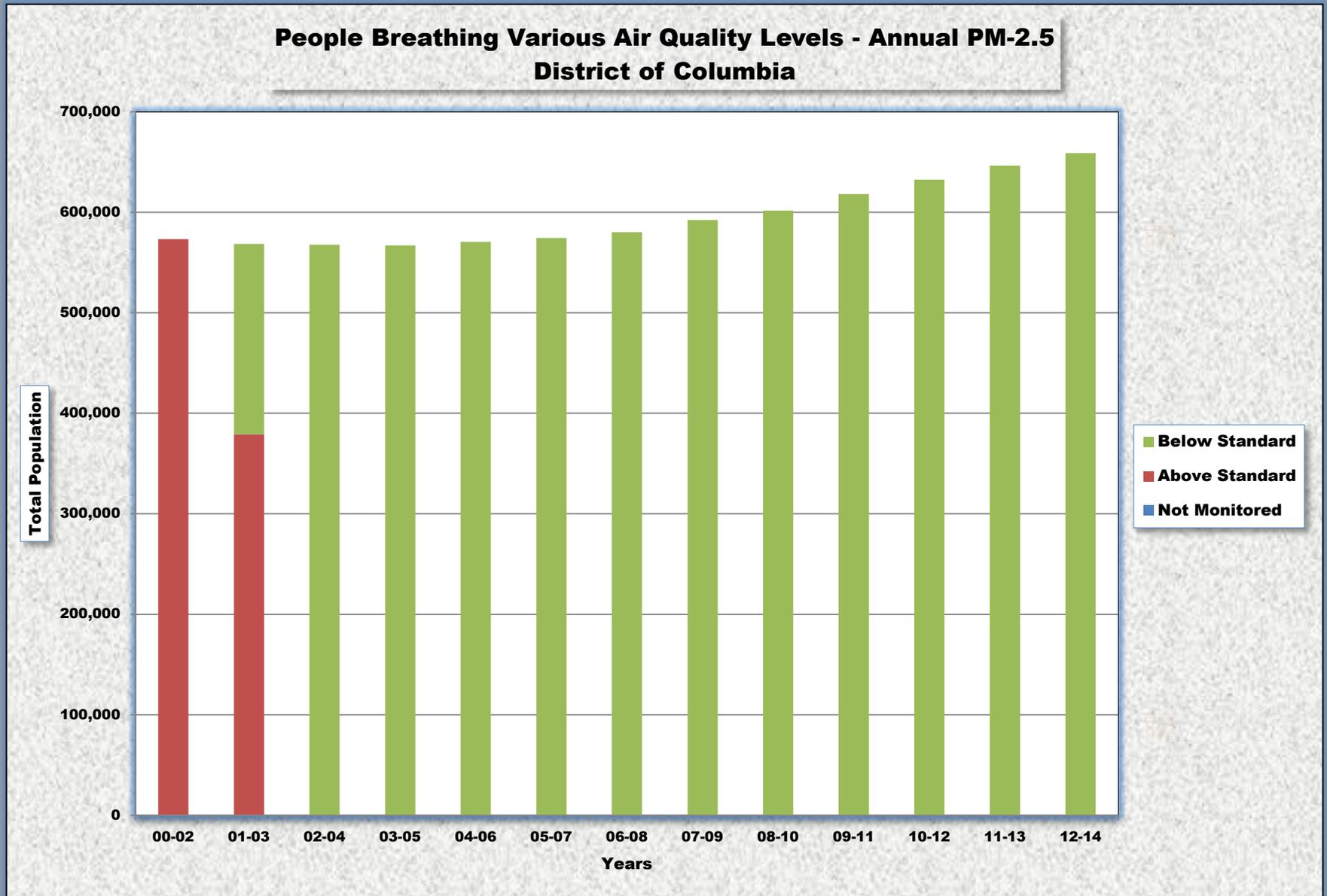


Figure DC-3



FLORIDA

Ozone

Significant progress has been made in ozone levels in Florida. In the 2000 – 2002 time period, approximately 8.6 million people (57.7%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to 17.6 million people (89.3%). In 2011 – 2013, the rest of the population lived in areas where ozone is not monitored. Figure FL-1 shows the distribution of people by year.

24-Hour PM-2.5

Measured air quality in Florida has always met the 24-hour PM-2.5 standard. In the 2000 – 2002 time period, approximately 12.4 million people (74.3%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 – 2014 this was approximately 14.3 million people (71.8%). The rest of the population lived in areas where PM-2.5 is not measured. Figure FL-2 shows the distribution of people by year.

Annual PM-2.5

Measured annual PM-2.5 levels in Florida have always met the standard. In the 2000 – 2002 time period, approximately 12.4 million people (74.3%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 14.3 million people (71.8%). The rest of the population lived in areas where PM-2.5 is not measured. Figure FL-3 shows the distribution of people by year.

FLORIDA

**Table FL-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Alachua	256,380	0.062	B	N	ND	--	ND	--	--
Baker	27,093	0.059	A	N	ND	--	ND	--	--
Bay	178,985	0.065	B	N	ND	--	ND	--	--
Brevard	556,885	0.062	B	Y	16	A	5.9	A	N
Broward	1,869,235	0.059	A	Y	16	A	7.0	A	N
Citrus	139,377	ND	--	--	17	A	6.6	A	N
Collier	348,777	0.059	A	N	ND	--	ND	--	--
Columbia	67,857	0.059	A	N	ND	--	ND	--	--
Duval	897,698	0.059	A	Y	17	A	7.2	A	Y
Escambia	310,659	0.068	C	Y	16	A	8.0	A	N
Flagler	102,408	0.063	B	N	ND	--	ND	--	--
Highlands	98,236	0.061	B	N	ND	--	ND	--	--
Hillsborough	1,316,298	0.066	B	N	15	A	6.7	A	N
Holmes	19,650	0.060	B	N	ND	--	ND	--	--
Indian River	144,755	0.064	B	N	ND	--	ND	--	--
Lake	315,690	0.065	B	N	ND	--	ND	--	--
Lee	679,513	0.062	B	Y	14	A	6.2	A	N
Leon	283,988	0.062	B	Y	20	A	8.6	A	N
Liberty	8,360	0.058	A	N	ND	--	ND	--	--
Manatee	351,746	0.062	B	Y	ND	--	ND	--	--
Marion	339,167	0.059	A	N	ND	--	ND	--	--
Miami-Dade	2,662,874	0.062	B	Y	14	A	6.4	A	Y
Okaloosa	196,512	0.064	B	N	ND	--	ND	--	--
Orange	1,253,001	0.065	B	Y	14	A	6.2	A	N
Osceola	310,211	0.064	B	N	ND	--	ND	--	--
Palm Beach	1,397,710	0.062	B	N	13	A	5.5	A	Y
Pasco	485,331	0.064	B	Y	ND	--	ND	--	--
Pinellas	938,098	0.064	B	Y	14	A	6.0	A	Y
Polk	634,638	0.065	B	Y	14	A	6.8	A	N
Santa Rosa	163,422	0.067	B	N	ND	--	ND	--	--
Sarasota	396,962	0.066	B	Y	17	A	6.5	A	N
Seminole	442,516	0.064	B	N	18	A	6.6	A	N
Volusia	507,531	0.061	B	Y	15	A	6.4	A	N
Subtotal	17,701,563								
Not Monitored	2,191,734								
Total	19,893,297								

DV = Design Value

ND = No Data

MM = Multiple Monitors

FLORIDA

**Table FL-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	575,154	873,448	0	0	0	1,155,540	874,033	1,434,183	2,147,564	1,847,193	2,753,125
B	1,597,625	2,192,532	5,228,185	2,066,384	1,739,348	2,274,271	3,214,544	6,555,728	11,142,049	11,209,218	9,344,532	11,849,537	14,653,730
C	7,036,673	6,253,250	7,948,094	7,412,507	8,099,716	8,067,799	11,158,984	7,512,221	2,939,279	2,619,511	5,338,856	3,153,476	155,331
D	3,984,550	3,498,603	1,538,112	4,123,697	3,925,909	3,492,555	1,501,739	453,057	0	0	0	0	0
F	99,189	25,062	0	99,446	100,132	0	0	0	0	0	0	0	0
Subtotal	12,718,028	11,969,447	15,289,544	14,575,482	13,865,105	13,834,625	15,875,267	15,676,546	14,955,361	15,262,912	16,830,952	16,850,206	17,562,186
NM	3,971,342	5,034,638	2,125,774	3,266,556	4,301,885	4,533,217	2,652,038	2,976,098	3,845,949	3,794,630	2,486,616	2,702,654	2,331,111
Total	16,689,370	17,004,085	17,415,318	17,842,038	18,166,990	18,367,842	18,527,305	18,652,644	18,801,310	19,057,542	19,317,568	19,552,860	19,893,297

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	12,157,422	13,454,473	13,890,132	13,479,330	13,679,414	14,520,061	12,375,143	13,575,413	13,526,480	12,453,267	13,143,572	14,302,540	14,286,983
B	245,404	0	0	719,339	729,115	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	12,402,817	13,454,473	13,890,132	14,198,669	14,408,529	14,520,061	12,375,143	13,575,413	13,526,480	12,453,267	13,143,572	14,302,540	14,286,983
NM	4,286,553	3,549,612	3,525,186	3,643,369	3,758,461	3,847,781	6,152,162	5,077,231	5,274,830	6,604,275	6,173,996	5,250,320	5,606,314
Total	16,689,370	17,004,085	17,415,318	17,842,038	18,166,990	18,367,842	18,527,305	18,652,644	18,801,310	19,057,542	19,317,568	19,552,860	19,893,297

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	11,859,854	13,203,800	13,339,761	13,940,586	14,145,453	14,520,061	12,375,143	13,575,413	13,526,480	12,453,267	13,143,572	14,302,540	14,286,983
B	542,972	250,673	550,371	258,083	263,076	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	12,402,817	13,454,473	13,890,132	14,198,669	14,408,529	14,520,061	12,375,143	13,575,413	13,526,480	12,453,267	13,143,572	14,302,540	14,286,983
NM	4,286,553	3,549,612	3,525,186	3,643,369	3,758,461	3,847,781	5,152,162	5,077,231	5,274,830	5,604,276	5,173,996	5,250,320	5,606,314
Total	16,689,370	17,004,085	17,415,318	17,842,038	18,166,990	18,367,842	18,527,305	18,652,644	18,801,310	19,057,542	19,317,567	19,552,860	19,893,297

NM = Not Monitored

Figure FL-1

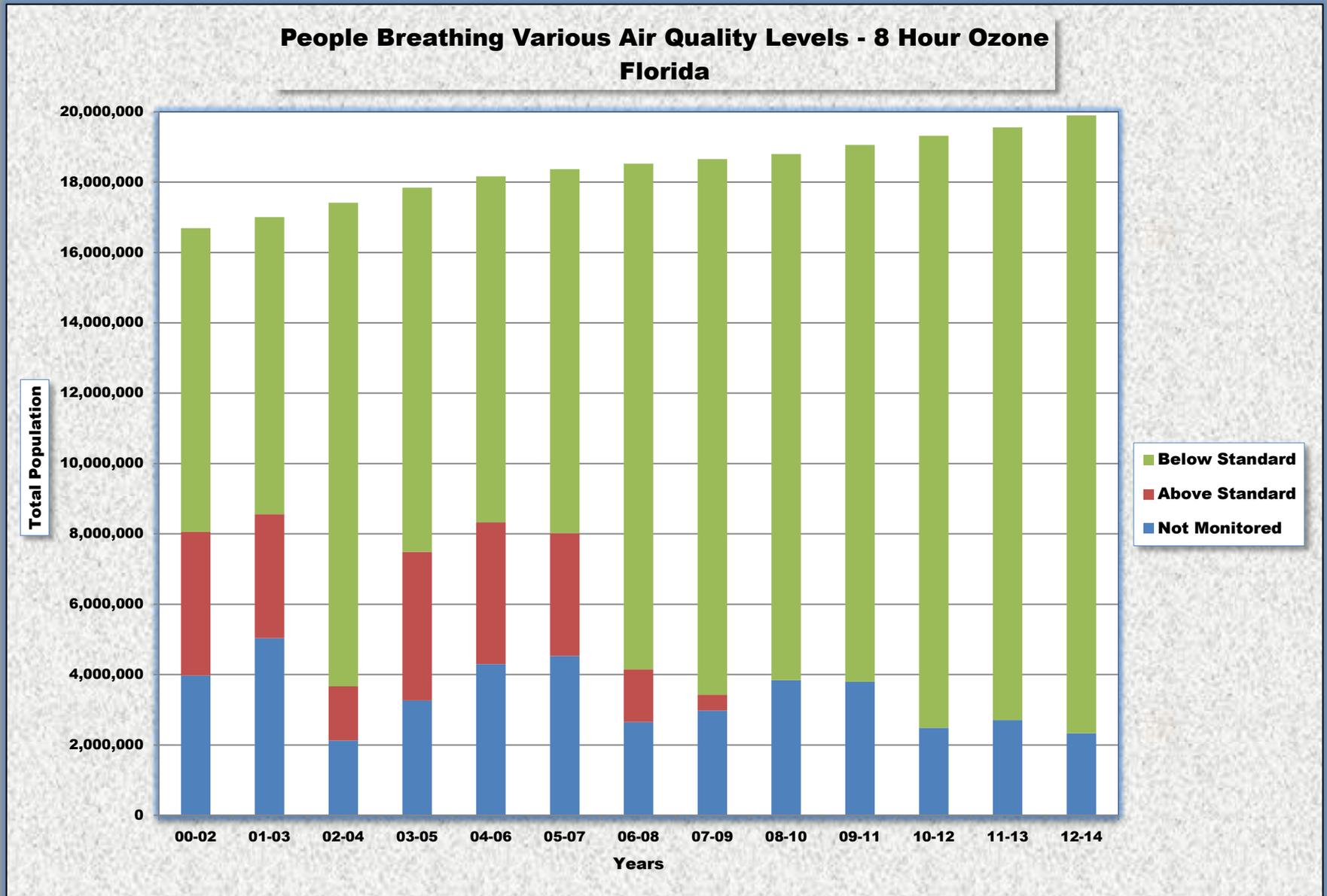


Figure FL-2

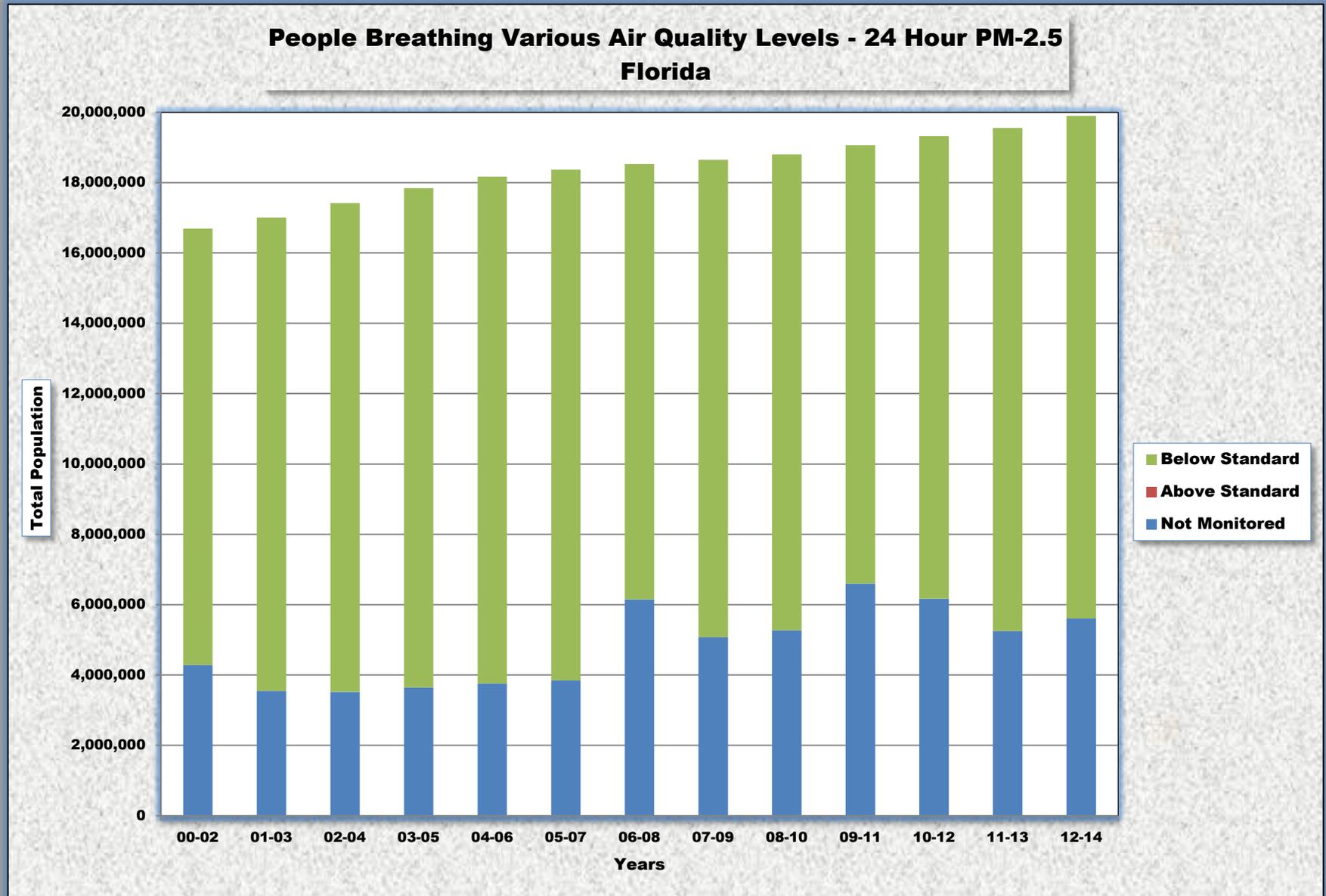
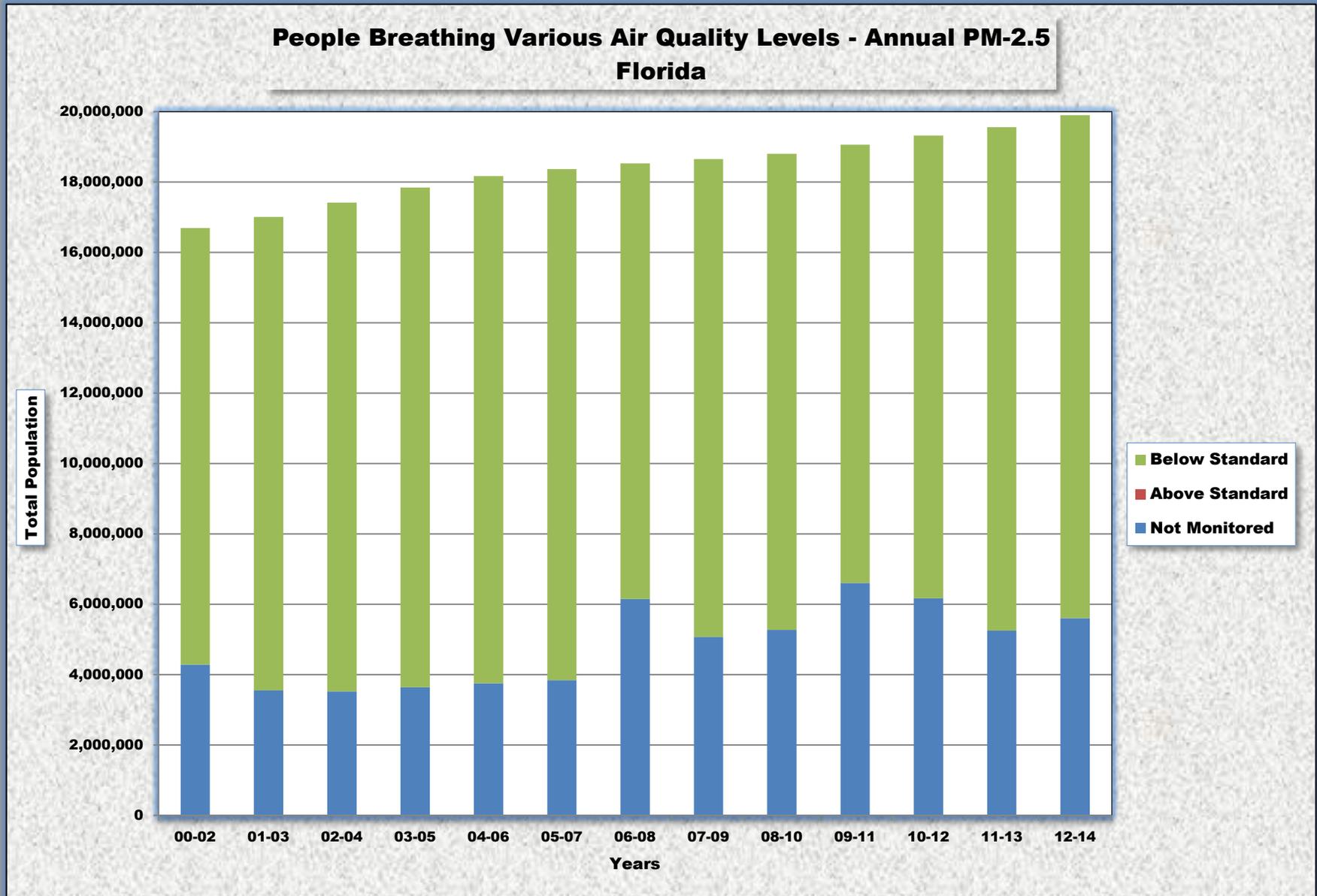


Figure FL-3



GEORGIA

Ozone

Significant progress has been made in ozone levels in Georgia. In the 2000 – 2002 time period, approximately 0.3 million people (3.6%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to 3.3 million people (33.0%). Figure GA-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Georgia. In the 2000 – 2002 time period, approximately 1.0 million people (12.0%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 5.2 million people (51.5%) and the remainder of the population lived in areas where PM-2.5 is not measured. Figure GA-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in Georgia. In the 2000 – 2002 time period, approximately 0.6 million people (7.1%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 5.2 million people (51.5%) and the remainder of the population lived in areas where PM-2.5 is not measured. Figure GA-3 shows the distribution of people by year.

GEORGIA

**Table GA-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Bibb	153,905	0.067	B	N	20	A	9.8	B	Y
Chatham	283,379	0.059	A	N	20	A	9.3	A	N
Chattooga	24,939	0.062	B	N	ND	--	ND	--	--
Clarke	120,938	0.064	B	N	22	A	9.7	B	N
Clayton	267,542	ND	--	--	20	A	10.3	B	N
Cobb	730,981	ND	--	--	20	A	10.0	B	N
Columbia	139,257	0.064	B	N	ND	--	ND	--	--
Coweta	135,571	0.060	B	N	ND	--	ND	--	--
Dawson	22,957	0.064	B	N	ND	--	ND	--	--
DeKalb	722,161	0.072	C	N	21	A	11.1	C	Y
Douglas	138,776	0.067	B	N	ND	--	ND	--	--
Floyd	96,063	ND	--	--	20	A	10.3	B	N
Fulton	996,319	0.076	D	N	20	A	10.9	C	N
Glynn	82,175	0.057	A	N	ND	--	ND	--	--
Gwinnett	877,922	0.072	C	N	18	A	9.4	A	N
Hall	190,761	ND	--	--	16	A	8.8	A	N
Henry	213,869	0.077	D	N	ND	--	ND	--	--
Houston	149,111	ND	--	--	19	A	9.2	A	N
Lowndes	113,523	ND	--	--	17	A	8.7	A	N
Murray	39,410	0.066	B	N	ND	--	ND	--	--
Muscogee	200,887	0.062	B	N	22	A	10.1	B	Y
Paulding	148,987	0.064	C	N	18	A	8.7	A	N
Pike	17,784	0.069	C	N	ND	--	ND	--	--
Richmond	201,368	0.065	B	N	20	A	10.0	B	N
Rockdale	87,754	0.077	D	N	ND	--	ND	--	--
Sumter	31,232	0.061	B	N	ND	--	ND	--	--
Walker	68,218	ND	--	--	21	A	10.3	B	N
Washington	20,635	ND	--	--	20	A	9.7	B	N
Wilkinson	9,326	ND	--	--	22	A	10.5	C	N
Subtotal	6,285,750								
Not Monitored	3,811,593								
Total	10,097,343								

DV = Design Value

ND = No Data

MM = Multiple Monitors

GEORGIA

**Table GA-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	81,508	365,554
B	0	0	0	0	0	328,494	333,282	341,068	138,460	733,913	536,532	693,626	1,358,227
C	305,918	521,758	530,252	553,607	590,315	240,413	269,049	846,882	2,323,199	1,852,725	1,159,066	3,253,631	1,612,868
D	284,614	18,406	18,881	1,315,316	1,401,503	530,998	759,843	1,932,887	2,589,689	2,554,405	2,551,450	1,282,340	1,297,942
F	3,216,834	3,132,185	3,847,813	2,713,763	2,745,269	3,849,612	3,670,080	1,880,416	0	0	977,773	0	0
Subtotal	3,807,365	3,672,346	4,396,946	4,582,685	4,737,087	4,949,515	5,032,249	5,001,253	5049,348	5,141,043	5,224,821	5,311,105	4,634,590
NM	4,700,891	4,950,447	4,372,306	4,343,237	4,418,726	4,400,474	4,472,594	4,619,593	4,638,305	4,674,167	4,695,124	4,681,062	5,462,752
Total	8,508,256	8,622,793	8,769,252	8,925,922	9,155,813	9,349,988	9,504,843	9,620,846	9,687,653	9,815,210	9,919,945	9,992,167	10,097,343

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	268,964	170,862	175,462	178,265	438,200	2,530,450	3,895,722	4,977,754	5,160,800	5,008,556	5,202,915
B	390,439	840,703	1,060,654	624,031	859,523	1,855,824	2,707,212	2,419,604	0	78,217	78,231	0	0
C	639,801	564,175	2,744,148	2,534,057	3,556,506	3,015,056	1,835,993	0	0	0	0	0	0
D	575,140	2,161,527	255,322	1,406,747	258,552	0	0	0	0	0	0	0	0
F	1,933,318	427,394	354,741	0	0	0	0	0	0	0	0	0	0
Subtotal	3,529,697	3,993,804	4,683,829	4,735,696	4,850,043	5,049,143	4,981,405	4,950,054	3,895,722	5,055,971	5,239,031	5,008,556	5,202,915
NM	4,978,559	4,628,994	4,085,423	4,190,226	4,305,770	4,300,843	4,523,438	4,670,792	5,791,931	4,759,239	4,680,914	4,983,611	4,894,428
Total	8,508,256	8,622,798	8,769,252	8,925,922	9,155,813	9,349,986	9,504,843	9,620,846	9,687,653	9,815,210	9,919,945	9,992,167	10,097,343

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	94,207	71,475	0	0	0	182,931	704,731	1,670,137	3,692,476	4,396,449	5,008,556	1,768,477
B	0	153,697	553,580	170,862	175,462	178,265	646,804	4,167,745	2,224,846	1,363,494	842,583	0	3,073,358
C	600,771	1,178,084	636,691	1,095,905	1,031,196	1,111,746	3,812,379	77,577	0	0	0	0	361,081
D	1,129,058	2,161,527	3,067,341	3,059,561	2,823,670	3,681,990	339,291	0	0	0	0	0	0
F	2,134,764	406,284	0	409,369	759,398	77,143	0	0	0	0	0	0	0
Subtotal	3,529,697	3,993,804	4,683,829	4,735,696	4,850,043	5,049,143	4,981,405	4,950,054	3,895,722	5,055,971	5,239,031	5,008,556	5,202,965
NM	4,643,664	4,628,994	4,440,165	4,190,226	4,367,087	4,300,841	4,523,438	4,670,793	5,791,430	4,759,240	4,670,913	4,983,611	4,894,427
Total	8,508,256	8,622,798	8,769,252	8,925,922	9,155,813	9,349,986	9,504,843	8,620,846	9,687,653	9,815,210	9,919,945	9,992,167	10,097,343

NM = Not Monitored

Figure GA-1

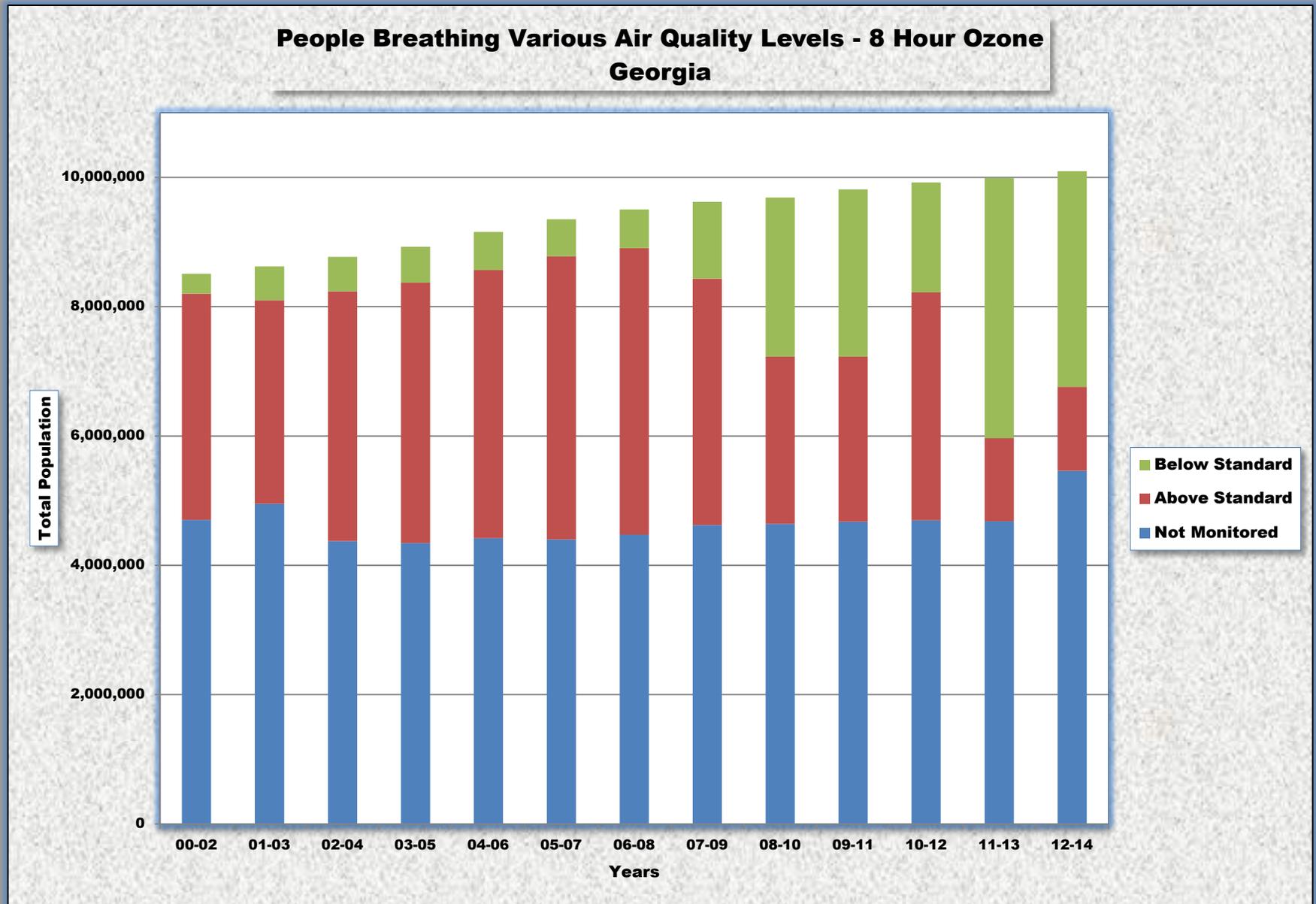


Figure GA-2

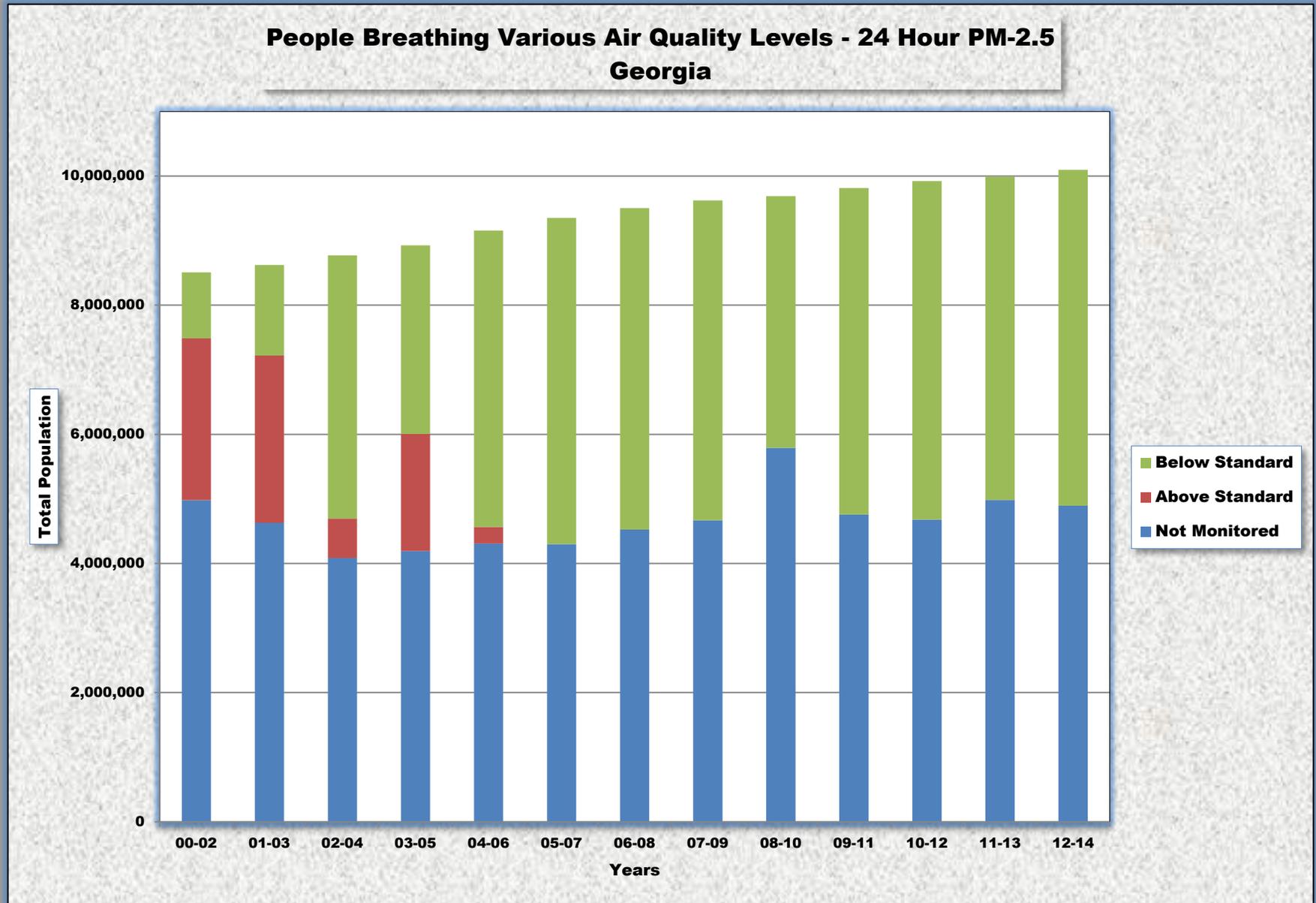
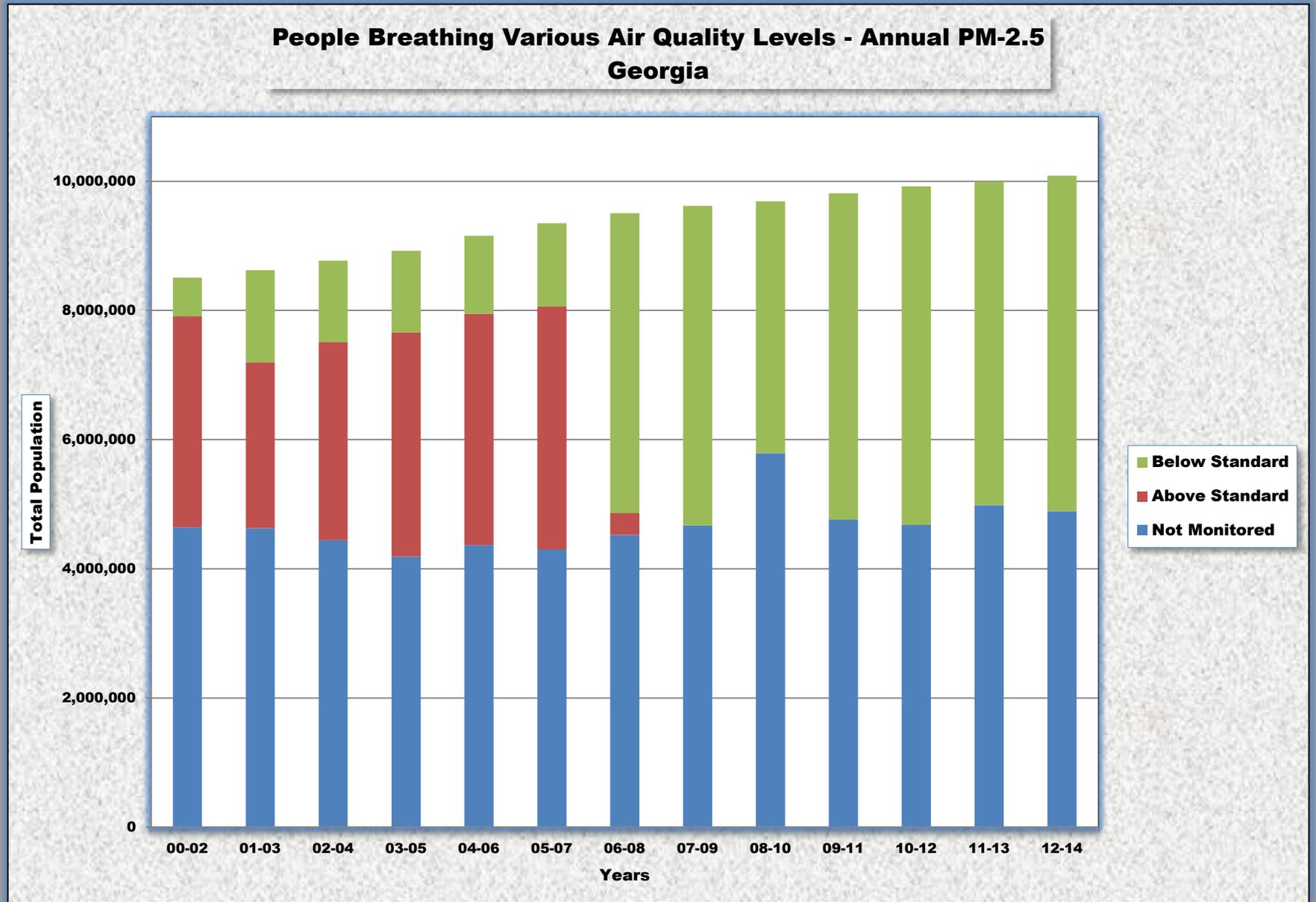


Figure GA-3



HAWAII

Ozone

Ozone levels in Hawaii have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.0 million people (84.3%) lived in counties that met the ozone standard. By 2012 – 2014 this had decreased to a little under 1.0 million people (70.1%). All people in both years either lived in counties with air quality rated as A or lived in counties where ozone was not measured. Figure HI-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Hawaii have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.0 million people (82.7%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 1.3 million people (95.0%). All people in both years either lived in counties with air quality rated as A or lived in counties where PM-2.5 was not measured. Figure HI-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Hawaii have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.0 million people (82.7%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 1.3 million people (95.0%). All people in both years either lived in counties with air quality rated as A or lived in counties where PM-2.5 was not measured. Figure HI-3 shows the distribution of people by year.

Table HI-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Hawaii	194,190	ND	--	--	12	A	6.6	A	Y
Honolulu	991,788	0.049	A	N	12	A	5.3	A	Y
Maui	163,019	ND	--	--	12	A	5.0	A	N
Subtotal	1,348,987								
Not Monitored	70,564								
Total	1,419,561								

DV = Design Value

ND = No Data

MM = Multiple Monitors

HAWAII

**Table HI-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,045,049	1,052,753	907,997	918,181	926,954	925,335	933,680	943,177	953,207	963,607	976,372	983,429	994,788
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	.0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,045,049	1,052,753	907,997	918,181	926,954	925,335	933,680	943,177	953,207	963,607	976,372	983,429	994,788
NM	194,564	198,401	365,572	174,548	382,777	390,340	398,733	403,540	407,094	411,203	415,941	420,625	424,773
Total	1,239,613	1,251,154	1,273,569	1,292,729	1,309,731	1,315,675	1,332,213	1,346,717	1,360,301	1,374,810	1,392,313	1,404,054	1,419,561

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,025,923	1,031,780	1,048,505	1,061,515	1,072,621	925,335	933,680	973,177	953,207	1,307,019	1,323,789	1,334,452	1,348,997
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,025,923	1,031,780	1,048,505	1,061,515	1,072,621	925,335	933,680	973,177	953,207	1,307,019	1,323,789	1,334,452	1,348,997
NM	213,690	219,374	225,064	231,214	237,110	390,340	398,535	403,540	407,094	67,791	68,524	69,602	70,564
Total	1,239,613	1,251,154	1,273,569	1,292,729	1,309,731	1,315,675	1,332,213	1,346,717	1,360,301	1,374,810	1,392,313	1,404,054	1,419,561

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,025,923	1,031,780	1,048,505	1,061,515	1,072,261	925,335	933,680	943,177	953,207	1,307,019	1,323,789	1,296,288	1,310,159
B	0	0	0	0	0	0	0	0	0	0	0	38,164	38,838
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,025,923	1,031,780	1,048,505	1,061,515	1,072,261	925,335	933,680	943,177	953,207	1,307,019	1,323,789	1,296,288	1,348,997
NM	213,690	219,374	225,064	231,214	237,110	390,340	398,535	403,540	407,094	67,791	68,524	69,602	70,564
Total	1,239,613	1,251,154	1,273,569	1,292,729	1,309,731	1,315,675	1,332,213	1,346,717	1,360,301	1,374,810	1,392,313	1,404,054	1,419,561

NM = Not Monitored

Figure HI-1

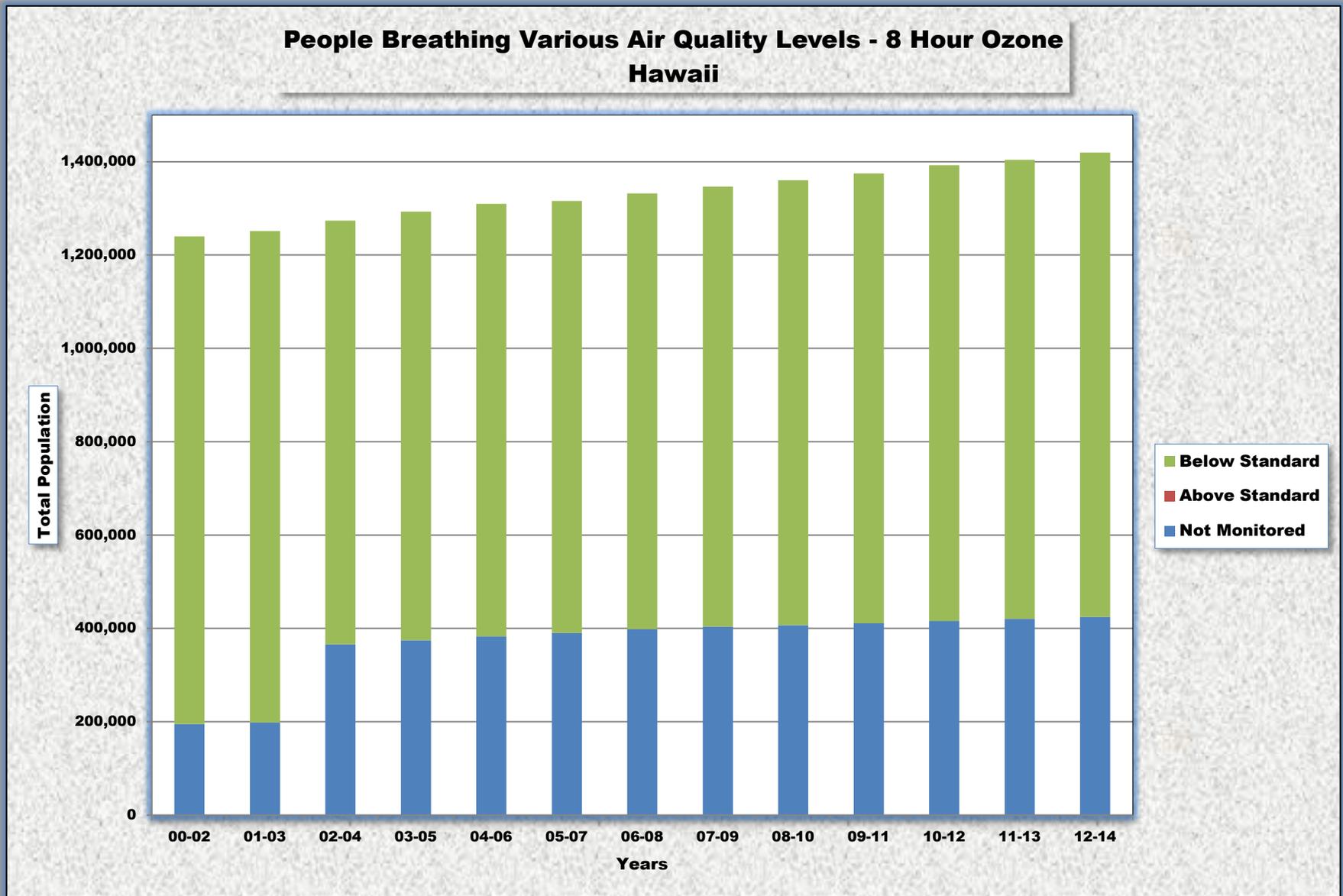


Figure HI-2

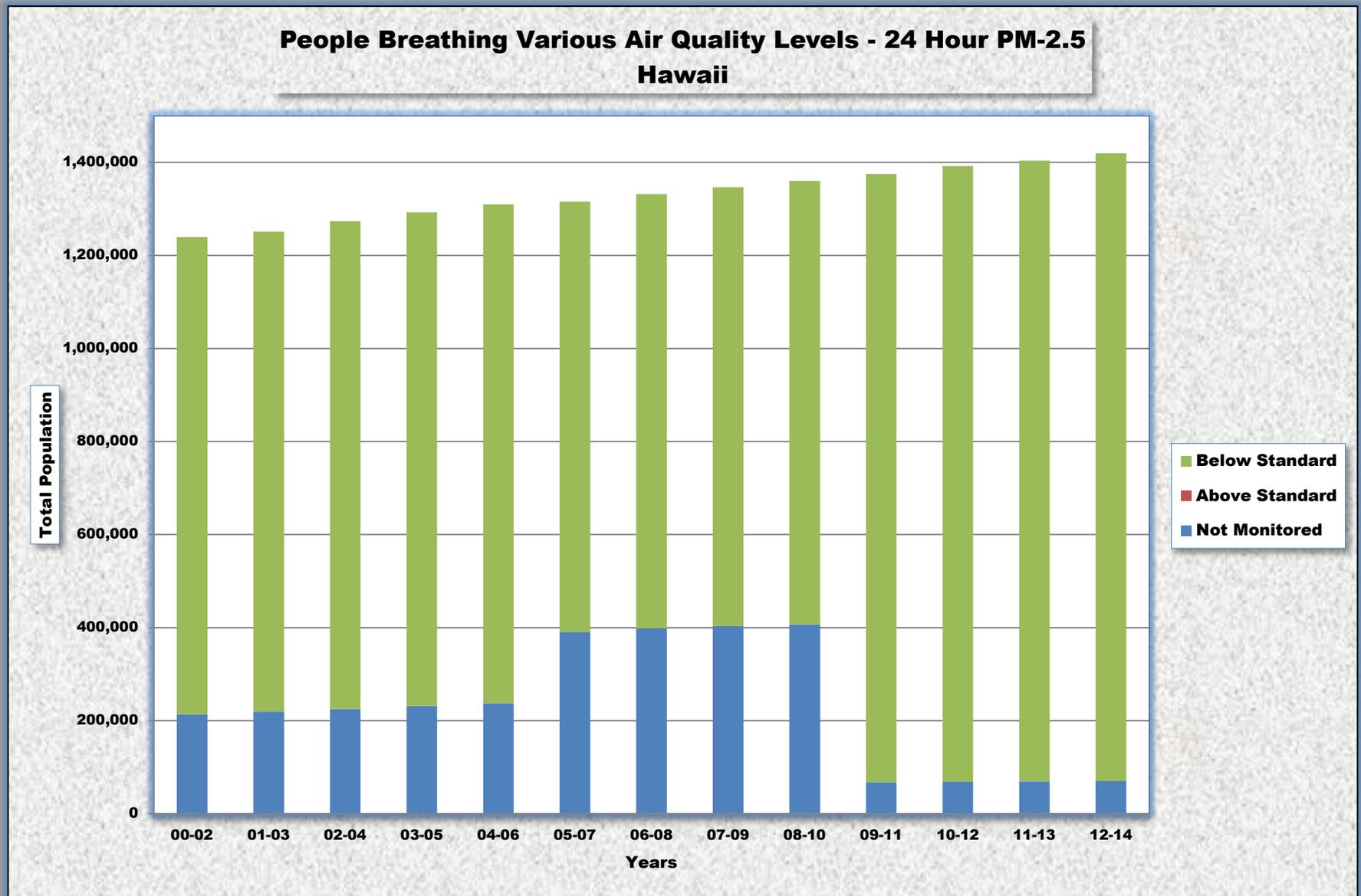
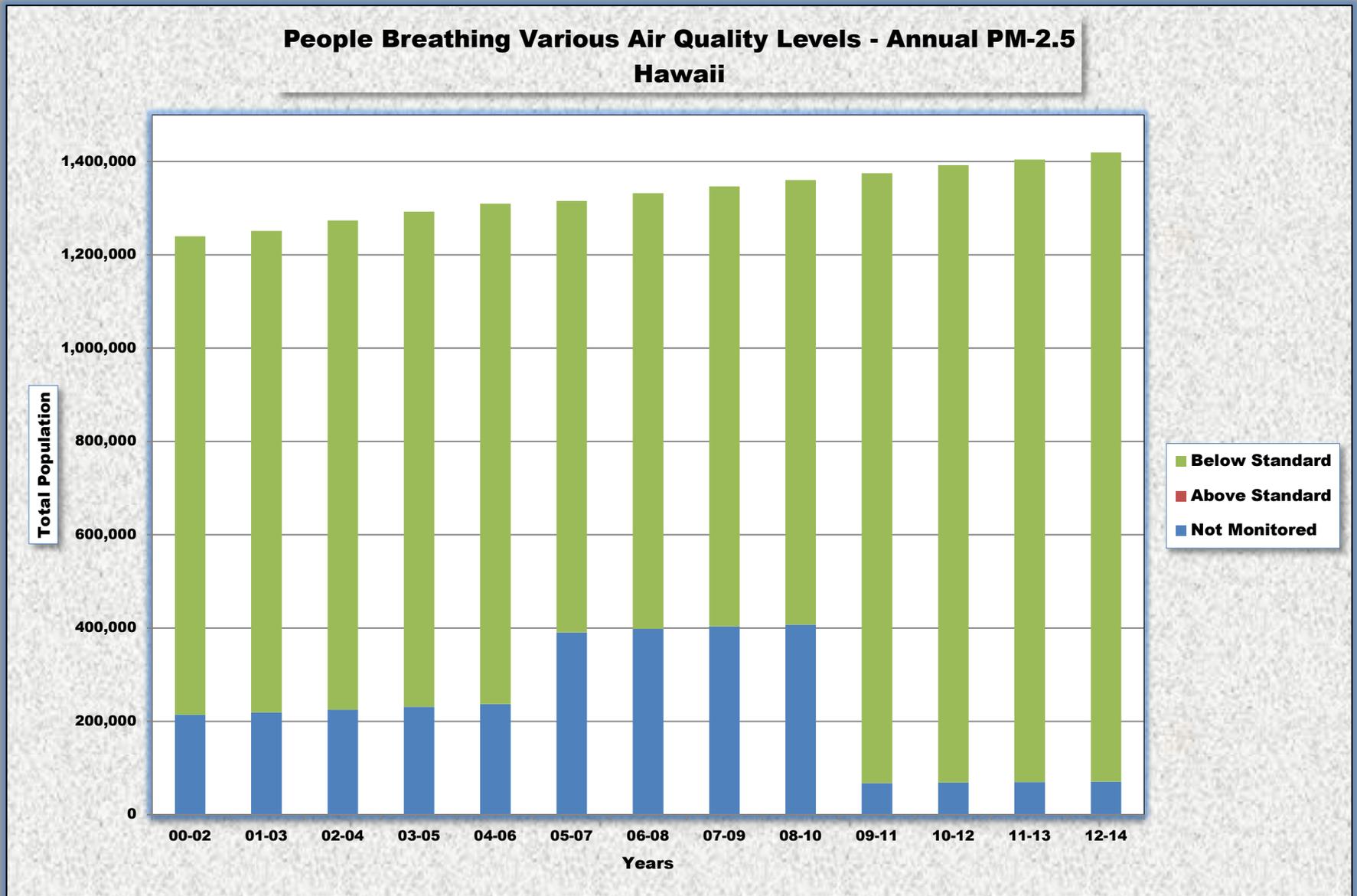


Figure HI-3



IDAHO

Ozone

Significant progress has been made in ozone levels in Idaho. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 0.4 million people (26.2%) and the rest of the population lived in areas where ozone is not monitored. Figure ID-1 shows the distribution of people by year.

24-Hour PM-2.5

No progress has been made in 24-hour PM-2.5 levels in Idaho. In the 2000 – 2002 time period, approximately 0.3 million people (18.1%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 83,000 people (5.1%). Figure ID-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Idaho have historically been below the standard. In the 2000 – 2002 time period, approximately 0.6 million people (45.2%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this was approximately 0.1 million people (6.4%). Figure ID-3 shows the distribution of people by year.

**Table ID-1
2012 – 2014**

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Ada	426,236	0.066	B	Y	ND	--	ND	--	--
Bannock	83,347	ND	--	--	25	A	8.4	A	N
Butte	2,622	0.062	B	N	ND	--	ND	--	--
Franklin	13,021	ND	--	--	42	F	8.4	A	N
Lemhi	7,726	ND	--	--	37	D	11.3	C	N
Subtotal	532,952								
Not Monitored	1,101,512								
Total	1,634,464								

DV = Design Value

ND = No Data

MM = Multiple Monitors

IDAHO

**Table ID-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	141,132	0	0	0
B	0	0	29,167	189,866	0	0	26,930	140,242	141,385	203,243	411,801	419,106	215,740
C	0	0	157,130	348,755	0	375,368	382,618	0	392,365	200,421	0	0	213,119
D	0	0	334,926	0	363,498	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	521,223	538,621	363,498	375,368	409,549	140,242	533,750	544,797	411,801	419,106	428,858
NM	1,340,372	1,363,380	870,579	889,620	1,105,171	1,129,737	1,124,772	1,414,197	1,033,832	1,040,189	1,183,927	1,193,030	1,205,605
Total	1,340,372	1,363,380	1,391,802	1,428,241	1,468,669	1,505,105	1,534,321	1,554,439	1,567,582	1,584,985	1,595,728	1,612,136	1,634,464

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	111,501	0	0	436,477	0	0	9,385	9,286	0	676,227	686,749	83,249	83,347
B	321,616	0	0	0	451,249	391,138	0	0	0	0	0	207,915	0
C	0	158,688	164,947	163,947	172,188	9,296	13,031	12,862	7,936	0	0	0	0
D	13,044	0	0	9,052	0	12,949	0	0	12,765	20,639	7,758	14,139	7,726
F	152,531	12,897	12,781	12,912	13,014	0	0	0	0	0	12,700	422,891	13,021
Subtotal	598,692	171,585	177,343	622,388	586,451	413,383	22,417	22,148	20,701	696,867	707,207	728,194	104,094
NM	741,680	1,191,795	1,214,459	805,853	832,218	1,091,722	1,511,904	1,532,291	1,546,881	888,119	888,521	883,942	1,530,370
Total	1,340,372	1,363,380	1,391,802	1,428,241	1,468,669	1,505,105	1,534,321	1,554,439	1,567,582	1,584,985	1,595,728	1,612,136	1,634,464

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	578,277	158,688	164,562	608,477	623,437	400,434	22,416	22,148	20,701	696,866	694,507	512,567	96,368
B	13,044	12,897	12,781	0	13,014	12,949	0	0	0	0	12,700	207,915	0
C	7,371	0	0	12,912	0	0	0	0	0	0	0	7,712	7,726
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	598,692	171,585	177,343	622,388	586,451	413,383	22,417	22,148	20,701	696,867	707,207	728,194	104,094
NM	741,680	1,191,795	1,214,459	805,852	832,218	1,091,722	1,511,904	1,532,291	1,546,881	888,119	888,521	883,942	1,530,370
Total	1,340,372	1,363,380	1,391,802	1,428,241	1,468,669	1,505,105	1,534,321	1,554,439	1,567,582	1,584,985	1,595,728	1,612,136	1,634,464

NM = Not Monitored

Figure ID-1

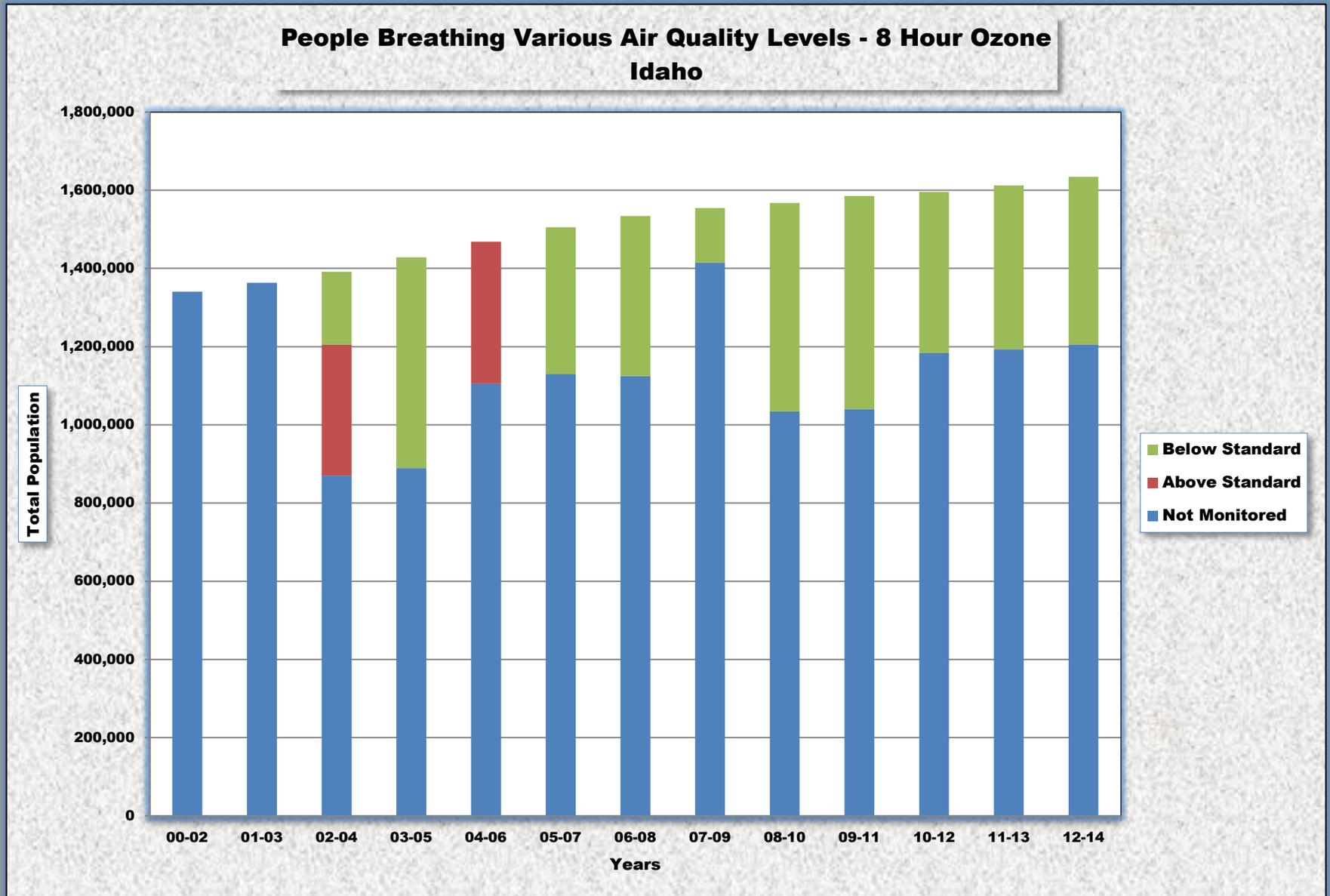


Figure ID-2

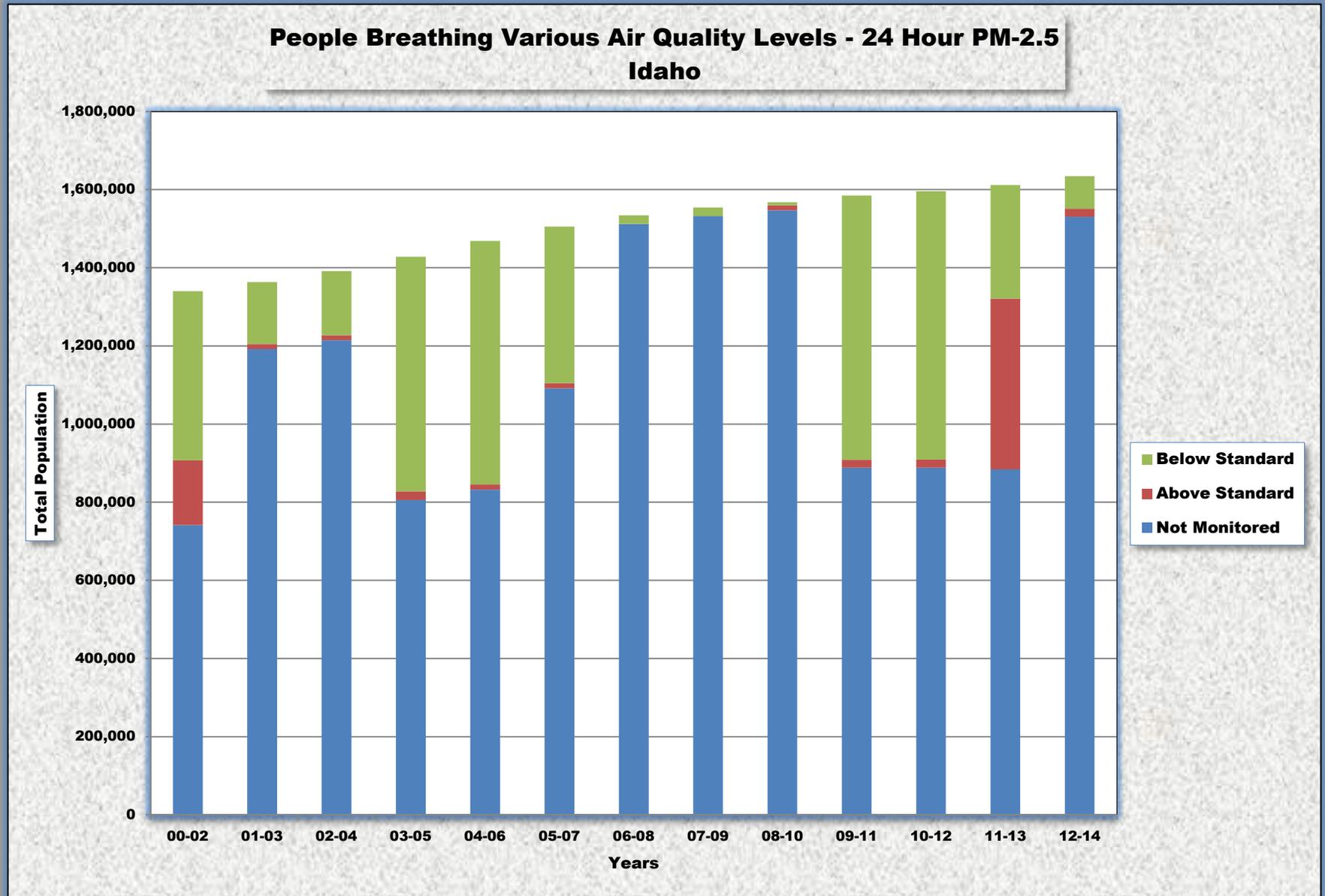
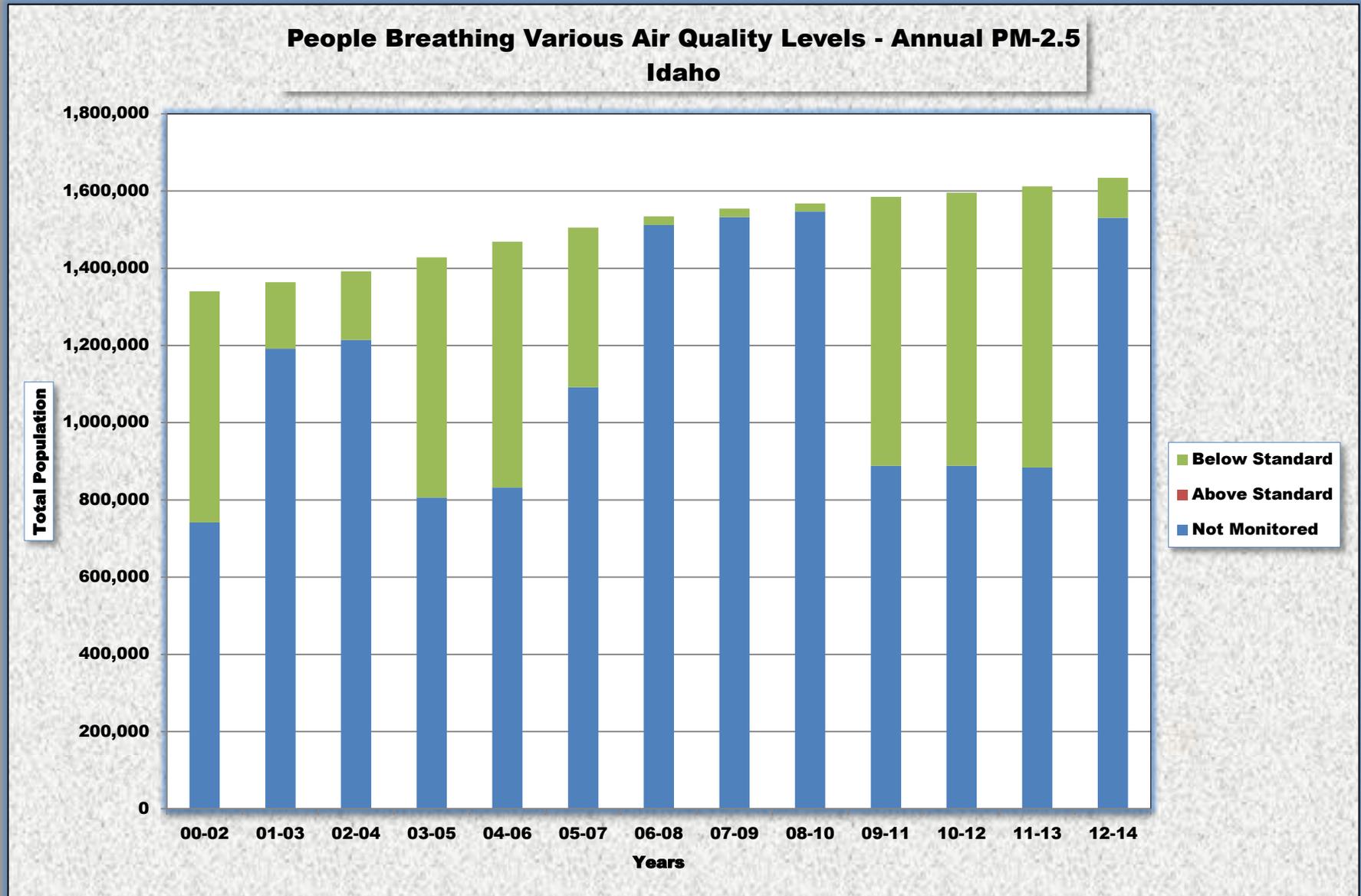


Figure ID-3



ILLINOIS

Ozone

Significant progress has been made in ozone levels in Illinois. In the 2000 – 2002 time period, approximately 3.7 million people (29.2%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to 8.5 million people (66.2%). Figure IL-1 shows the distribution of people by year.

24-Hour PM-2.5

In the 2000 – 2002 time period, approximately 4.6 million people (36.8%) lived in counties where 24-hour PM-2.5 levels met the standard. Data for several years has been removed. Figure IL-2 shows the distribution of people by year.

Annual PM-2.5

In the 2000 – 2002 time period, approximately 4.5 million people (36.1%) lived in counties where annual PM-2.5 levels met the standard. Data for several years has been removed. Figure IL-3 shows the distribution of people by year.

Table IL-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Adams	66,988	0.066	B	N	ND	--	ND	--	--
Champaign	207,133	0.066	B	N	ND	--	ND	--	--
Cook	5,246,456	0.071	C	Y	ND	--	ND	--	--
DuPage	932,708	0.067	C	N	ND	--	ND	--	--
Effingham	34,320	0.066	B	N	ND	--	ND	--	--
Hamilton	8,296	0.070	C	N	ND	--	ND	--	--
Jersey	22,571	0.074	C	N	ND	--	ND	--	--
Jo Daviess	22,254	0.069	C	N	ND	--	ND	--	--
Kane	527,306	0.068	C	N	ND	--	ND	--	--
Lake	705,186	0.079	D	N	ND	--	ND	--	--
McHenry	307,283	0.069	C	N	ND	--	ND	--	--
McLean	174,061	0.071	C	N	ND	--	ND	--	--
Macon	108,350	0.069	C	N	ND	--	ND	--	--
Macoupin	46,453	0.067	B	N	ND	--	ND	--	--
Madison	266,560	0.075	C	Y	ND	--	ND	--	--
Peoria	187,319	0.065	B	Y	ND	--	ND	--	--
Randolph	32,869	0.072	C	N	ND	--	ND	--	--
Rock Island	146,063	0.062	B	N	ND	--	ND	--	--
St Clair	265,729	0.072	C	N	ND	--	ND	--	--
Sangamon	198,997	0.065	B	N	ND	--	ND	--	--
Will	685,419	0.065	B	N	ND	--	ND	--	--
Winnebago	288,542	0.069	C	N	ND	--	ND	--	--
Subtotal	10,480,863								
Not Monitored	2,399,717								
Total	12,880,580								

DV = Design Value

ND = No Data

MM = Multiple Monitors

ILLINOIS

**Table IL-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	713,036	240,973	147,457	0	0
B	0	0	147,291	255,229	1,208,362	859,039	4,805,572	5,343,329	6,495,884	3,272,945	1,251,722	958,609	2,411,741
C	1,661,056	2,809,827	4,994,051	6,397,566	7,667,062	4,969,480	4,788,660	4,930,403	2,984,542	5,924,878	5,661,190	6,949,146	6,109,204
D	4,179,607	4,832,568	4,692,141	3,388,376	1,366,881	4,079,258	737,489	89,659	0	795,708	3,172,282	2,565,095	1,959,918
F	2,070,068	2,563,169	361,242	175,506	0	267,382	0	0	0	0	0	0	0
Subtotal	9,912,931	10,205,564	10,274,725	10,217,677	10,240,345	10,175,159	10,331,721	10,363,389	10,193,462	10,234,504	10,032,651	10,472,850	10,480,863
NM	2,612,825	2,350,442	2,315,048	2,392,226	2,403,650	2,520,707	2,415,317	2,433,387	2,637,170	2,634,753	2,642,604	2,409,285	2,399,717
Total	12,525,556	12,556,006	12,589,773	12,609,903	12,643,955	12,695,866	12,747,038	12,796,778	12,830,632	12,869,257	12,875,255	12,882,135	12,880,580

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	93,507	819,335	0	33,688	0	0	0	0	0	0	0	0
B	866,511	1,662,352	2,061,671	1,291,444	2,189,335	393,621	0	0	0	0	0	0	0
C	3,736,829	4,361,886	3,750,872	2,578,321	4,448,045	5,444,951	0	0	0	0	0	0	0
D	4,666,260	2,441,745	2,387,282	2,332,896	1,424,456	2,998,269	0	0	0	0	0	0	0
F	1,397,476	1,719,525	1,086,774	3,997,098	2,152,290	1,377,686	0	0	0	0	0	0	0
Subtotal	10,667,076	10,279,015	10,106,134	10,200,359	10,245,815	10,214,527	0	0	0	0	0	0	0
NM	1,858,480	2,276,991	2,483,639	2,409,544	2,398,141	2,481,339	12,747,038	12,798,778	12,830,632	12,869,257	12,875,255	12,882,135	12,880,580
Total	12,525,556	12,556,006	12,589,773	12,609,903	12,643,955	12,695,866	12,747,038	12,796,778	12,830,632	12,869,257	12,875,255	12,882,135	12,880,580

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	1,504,607	998,224	1,162,412	332,024	0	0	0	0	0	0	0
B	1,292,550	2,396,103	2,749,860	3,101,978	3,342,528	2,687,593	0	0	0	0	0	0	0
C	3,224,061	3,293,585	4,157,329	1,671,058	3,756,237	3,966,702	0	0	0	0	0	0	0
D	3,670,601	3,176,483	1,085,020	3,775,958	1,423,096	3,228,146	0	0	0	0	0	0	0
F	2,479,864	1,058,828	609,317	653,141	563,540	0	0	0	0	0	0	0	0
Subtotal	10,667,076	10,279,015	10,106,134	10,200,359	10,245,815	10,214,527	0	0	0	0	0	0	0
NM	1,858,480	2,631,007	2,483,640	2,409,544	2,398,142	2,481,341	12,747,038	12,796,778	12,830,632	12,869,257	12,875,255	12,882,135	12,880,580
Total	12,525,556	12,556,006	12,589,773	12,609,903	12,643,955	12,695,866	12,747,038	12,796,778	12,830,632	12,869,257	12,875,255	12,882,135	12,880,580

NM = Not Monitored

Figure IL-1

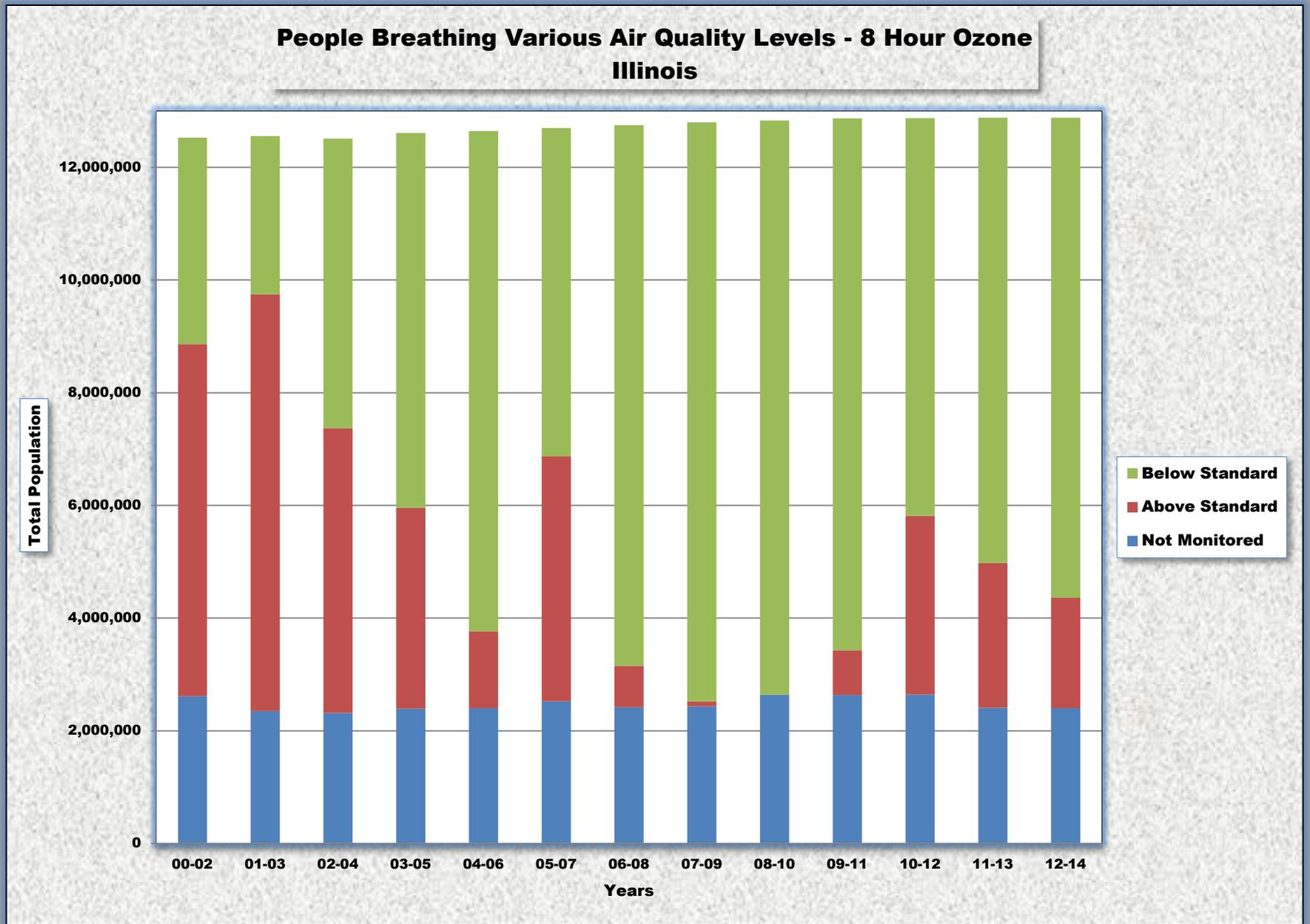


Figure IL-2

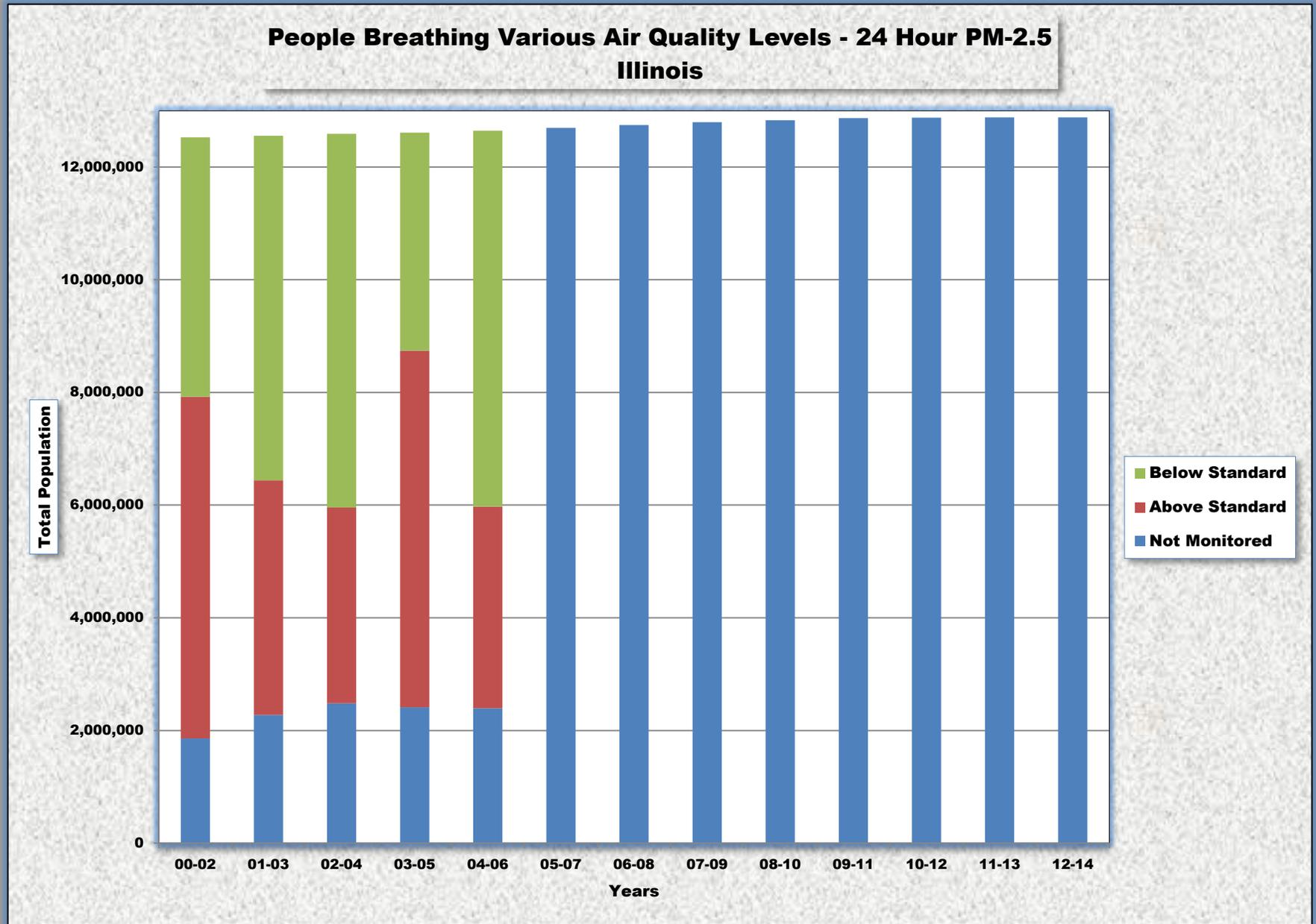
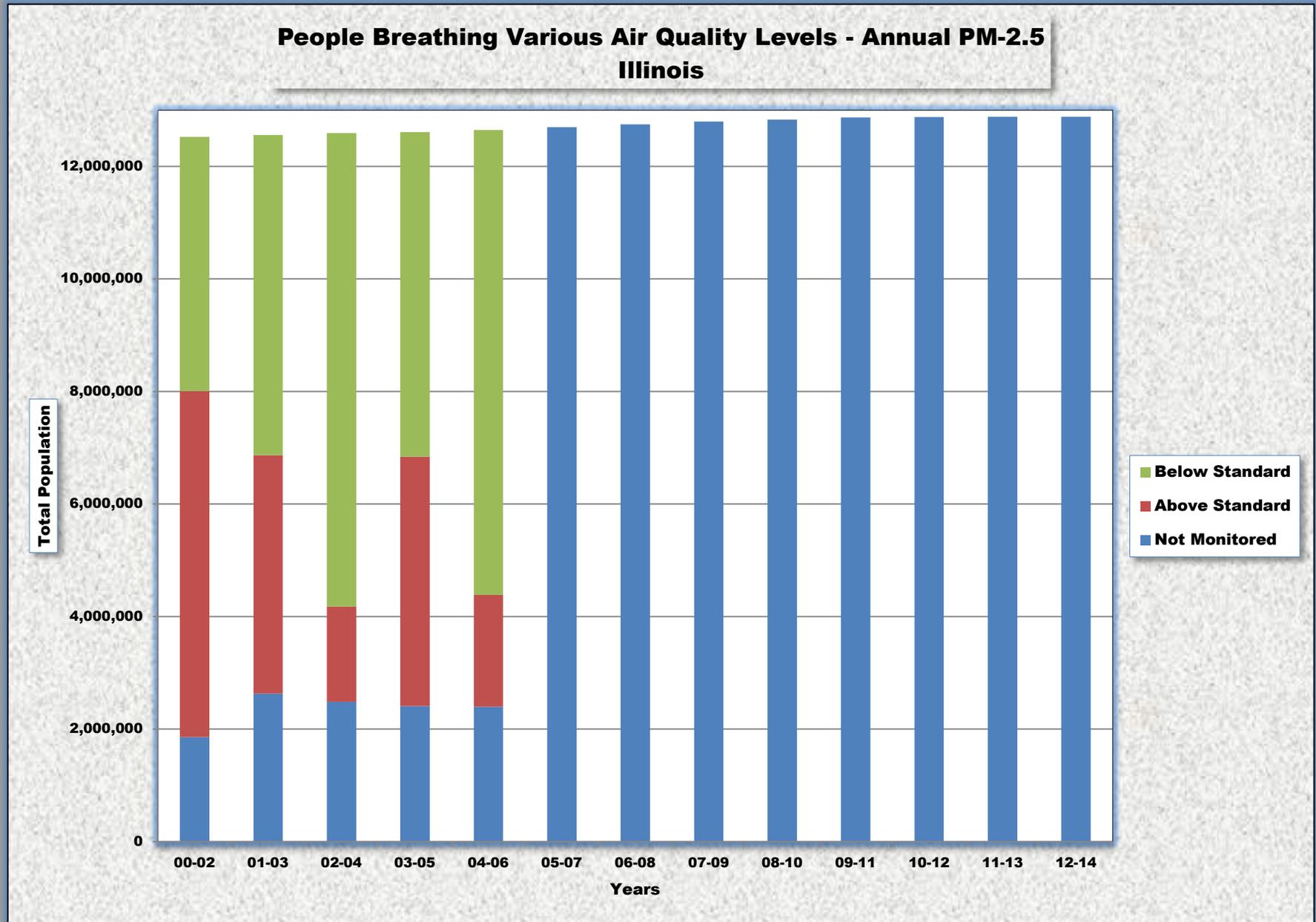


Figure IL-3



INDIANA

Ozone

Significant progress has been made in ozone levels in Indiana. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 4.3 million people (64.8%). Figure IN-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Indiana. In the 2000 – 2002 time period, approximately 2.1 million people (33.5%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 3.8 million people (57.2%) and the rest of the population lived in areas where PM-2.5 was not measured. Figure IN-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in Indiana. In the 2000 – 2002 time period, approximately 1.4 million people (23.1%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 3.8 million people (57.2%). Figure IN-3 shows the distribution of people by year.

INDIANA

**Table IN-1
2012 – 2014**

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Allen	365,918	0.067	B	Y	25	A	10.0	B	N
Bartholomew	80,217	0.066	B	N	ND	--	ND	--	--
Boone	61,915	0.071	C	N	ND	--	ND	--	--
Carroll	19,923	0.068	C	N	ND	--	ND	--	--
Clark	114,262	0.072	C	N	23	A	10.7	B	Y
Delaware	117,074	0.063	B	N	25	A	10.0	B	N
Dubois	42,345	ND	--	--	25	A	10.9	C	N
Elkhart	201,971	0.061	B	N	28	B	10.5	B	N
Floyd	76,179	0.073	C	N	21	A	10.4	B	N
Greene	32,726	0.071	C	N	ND	--	ND	--	--
Hamilton	302,623	0.065	B	N	ND	--	ND	--	--
Hancock	71,978	0.059	A	N	ND	--	ND	--	--
Hendricks	156,056	0.061	B	N	ND	--	ND	--	--
Henry	48,995	ND	--	--	22	A	9.5	B	N
Huntington	36,706	0.060	B	N	ND	--	ND	--	--
Jackson	43,705	0.064	B	N	ND	--	ND	--	--
Johnson	147,538	0.064	B	N	ND	--	ND	--	--
Lake	490,228	0.069	C	Y	26	A	11.0	C	Y
La Porte	111,444	0.074	C	Y	23	A	9.6	B	N
Madison	130,069	0.063	B	N	23	A	9.8	B	N
Marion	934,243	0.067	B	Y	26	A	11.4	C	Y
Monroe	143,339	ND	--	--	20	A	9.6	B	N
Morgan	69,693	0.067	B	N	ND	--	ND	--	Y
Perry	19,454	0.070	C	N	ND	--	ND	--	--
Porter	167,076	0.069	C	Y	25	A	10.3	B	N
Posey	25,540	0.066	B	N	ND	--	ND	--	--
St Joseph	267,618	0.066	B	Y	25	A	9.9	B	N
Shelby	44,579	0.070	C	N	ND	--	ND	--	--
Spencer	20,801	ND	--	--	23	A	10.5	B	N
Tippecanoe	183,074	ND	--	--	25	A	10.0	B	N
Vanderburgh	182,006	0.072	C	Y	24	A	10.9	C	Y
Vigo	108,175	0.065	B	Y	25	A	10.6	B	N
Warrick	61,149	0.068	C	Y	ND	--	ND	--	--
Whitley	33,403	ND	--	--	23	A	9.4	A	N
Subtotal	4,912,022								
Not Monitored	1,684,933								
Total	6,596,855								

DV = Design Value

ND = No Data

MM = Multiple Monitors

INDIANA

**Table IN-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	88,977	0	0	0	71,978
B	0	0	0	160,781	141,666	53,443	131,537	622,582	2,925,391	1,936,762	705,918	790,747	2,321,562
C	0	0	139,888	523,515	2,611,995	560,066	2,833,363	2,907,703	1,276,613	2,207,650	3,324,068	3,272,236	1,990,803
D	336,195	555,100	1,224,054	2,799,659	1,751,273	3,282,362	1,186,522	692,557	0	0	220,174	221,963	55,722
F	3,661,236	3,410,496	2,682,843	598,900	0	270,140	0	0	0	0	55,623	55,641	0
Subtotal	3,997,431	3,965,646	4,046,785	4,082,855	4,504,934	4,166,010	4,201,422	4,222,842	4,290,981	4,144,412	4,305,783	4,340,586	4,440,065
NM	2,158,536	2,231,042	2,186,222	2,195,761	1,827,735	2,213,589	2,223,384	2,236,483	2,192,821	2,372,510	2,231,551	2,230,315	2,156,790
Total	6,155,967	6,196,638	6,233,007	6,278,616	6,332,669	6,379,599	6,424,806	6,459,325	6,483,802	6,516,922	6,537,334	6,570,902	6,596,855

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	48,258	0	0	0	53,099	0	54,309	+65,019	1,322,253	1,984,732	2,041,292	3,630,112	3,372,884
B	282,122	68,674	805,129	20,896	939,795	496,235	2,544,254	2,076,175	2,349,907	1,860,142	1,595,905	98,291	398,062
C	1,733,725	1,601,353	2,211,629	1,788,321	1,844,126	1,824,861	1,027,975	750,798	95,578	0	0	0	0
D	948,579	1,346,268	349,670	1,575,391	712,717	765,847	0	0	0	0	0	0	0
F	469,029	478,332	139,259	139,856	0	484,354	0	0	0	0	0	0	0
Subtotal	3,481,713	3,494,627	3,505,687	3,524,474	3,569,737	3,871,296	3,626,538	3,782,995	3,767,738	3,844,874	3,737,197	3,728,403	3,770,946
NM	2,674,254	2,702,011	2,727,320	2,754,142	2,762,932	2,608,303	2,798,268	2,678,330	2,716,064	2,672,048	2,800,137	2,842,499	2,825,909
Total	6,155,967	6,196,638	6,233,007	6,278,616	6,332,669	6,379,599	6,424,806	6,459,325	6,483,802	6,516,922	6,537,334	6,570,902	6,596,855

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	33,290	194,018	790,069	1,957,183	2,252,934	2,682,307	0	139,529
B	103,036	183,057	451,273	353,853	1,144,686	638,592	1,957,594	1,938,830	1,153,178	1,536,155	1,021,950	1,893,203	2,088,873
C	1,317,105	2,018,306	2,390,802	2,355,711	1,949,498	2,349,713	1,421,223	1,052,085	857,377	55,785	0	1,778,731	1,542,544
D	1,524,300	1,086,432	613,394	733,321	455,567	530,155	53,703	0	0	0	0	56,469	0
F	537,274	206,832	50,218	81,588	0	52,836	0	0	0	0	0	0	0
Subtotal	3,481,715	3,494,627	3,505,687	3,524,473	3,549,738	3,604,585	3,626,538	3,780,992	3,767,738	3,844,874	3,704,257	3,728,403	3,770,946
NM	2,674,252	2,702,011	2,727,320	2,754,143	2,782,931	2,775,014	2,798,268	2,678,333	2,716,064	2,672,048	2,833,077	2,842,499	2,825,909
Total	6,155,967	6,196,638	6,233,007	6,278,616	6,332,669	6,379,599	6,424,806	6,459,325	6,483,802	6,516,922	6,537,334	6,570,902	6,596,855

NM = Not Monitored

Figure IN-1

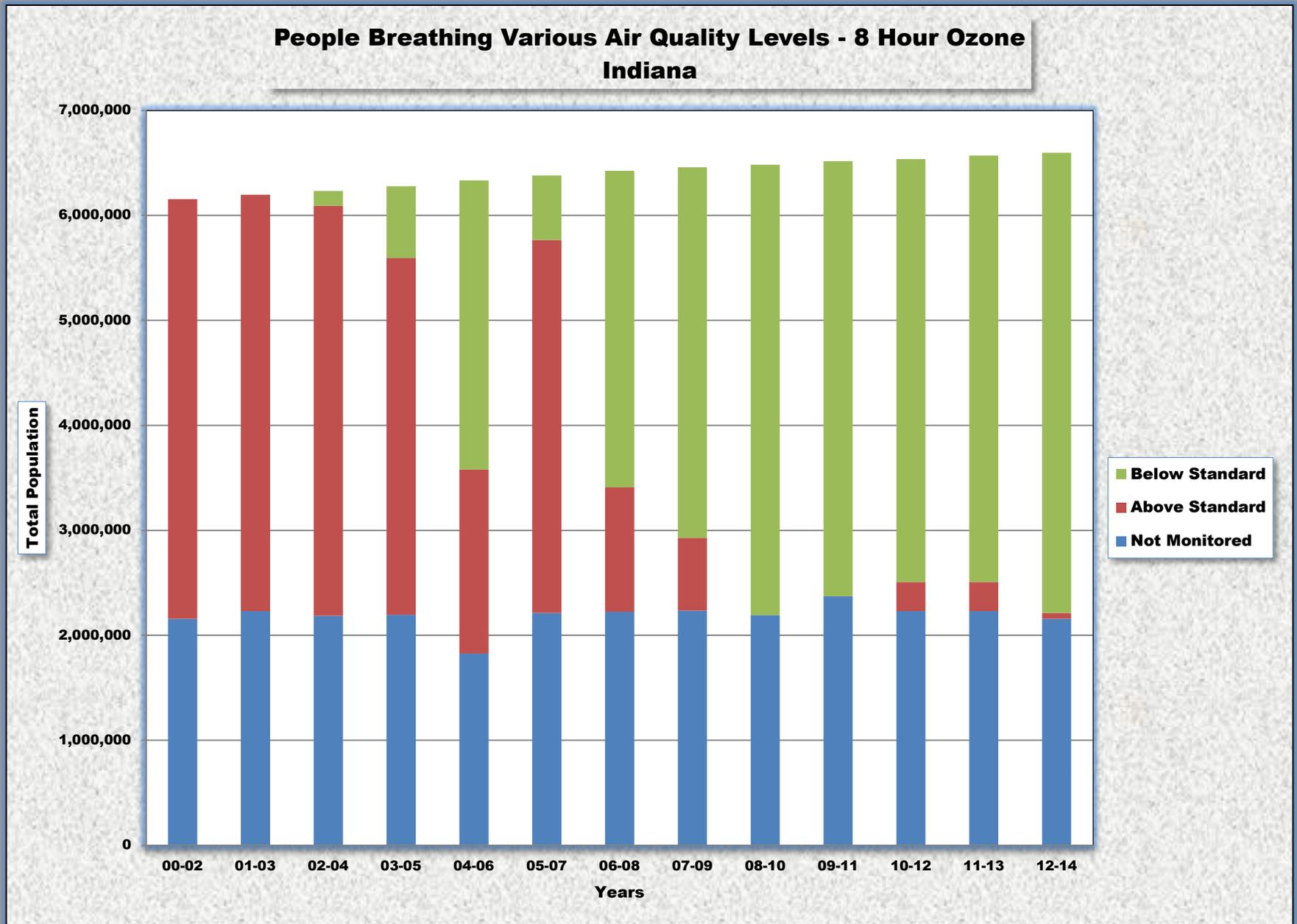


Figure IN-2

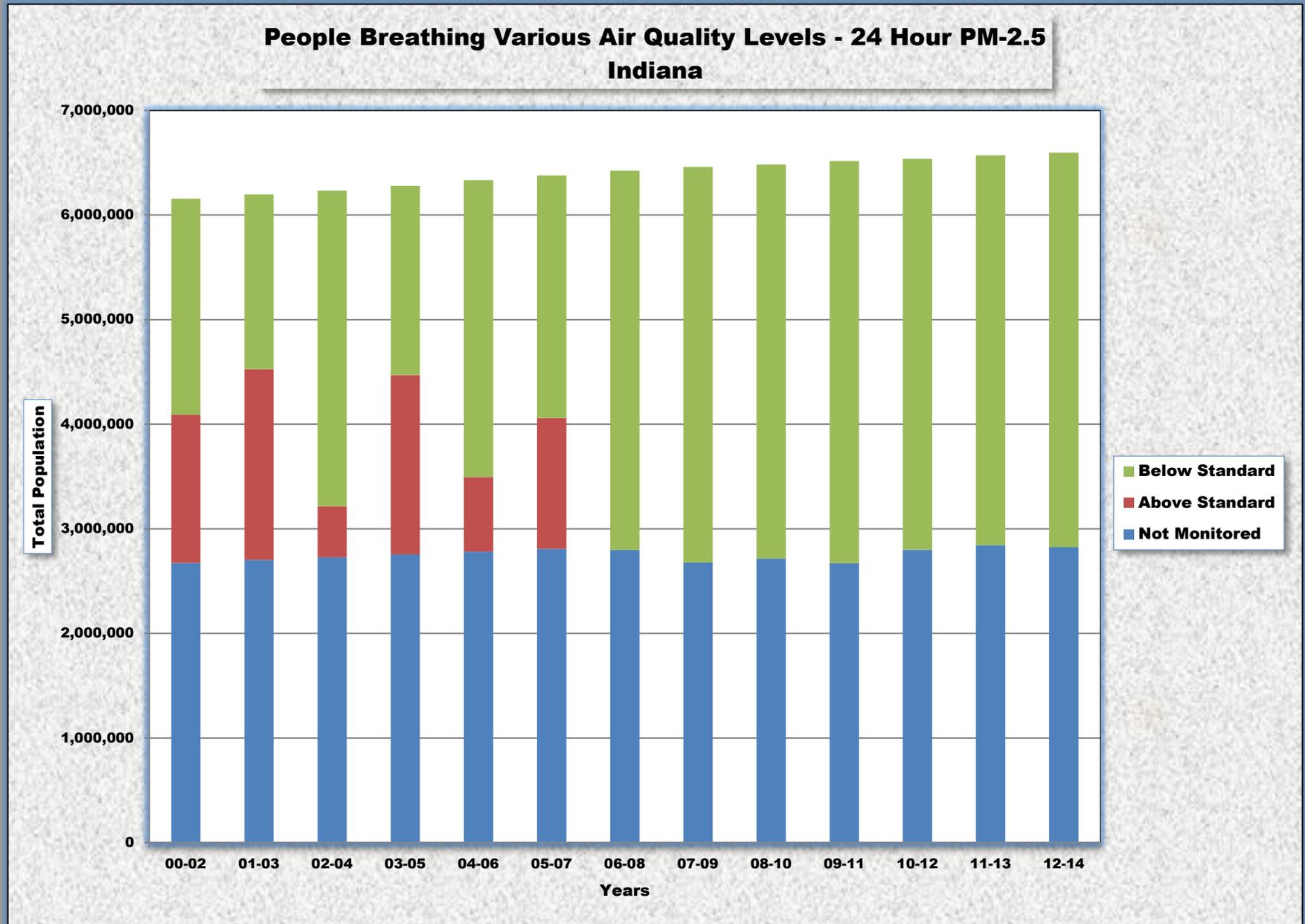
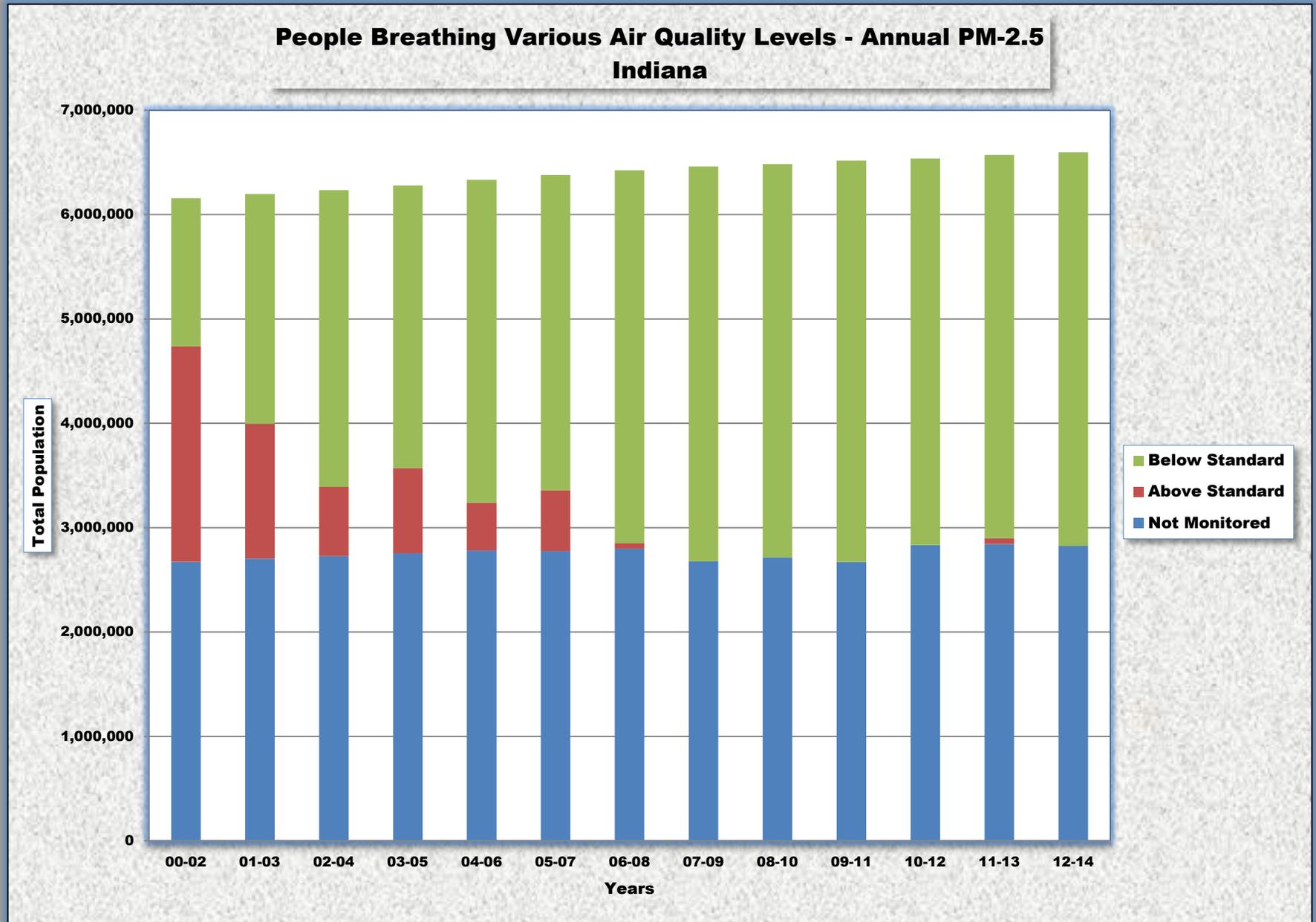


Figure IN-3



IOWA

Ozone

Progress has been made in ozone levels in Iowa. In the 2000 – 2002 time period, approximately 0.7 million people (25.4%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 1.1 million people (35.6%). The remainder of the population lived in counties where ozone was not measured. Figure IA-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour levels of PM-2.5 have generally been better than the standard. In the 2000 – 2002 time period, approximately 1.4 million people (46.5%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 1.4 million people (46.2%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure IA-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Iowa have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.4 million people (46.5%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had decreased to approximately 1.4 million people (46.2%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure IA-3 shows the distribution of people by year.

Table IO-1
2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Black Hawk	132,897	ND	--	--	21	A	9.5	A	N
Bremer	24,721	0.063	B	N	ND	--	ND	--	--
Clinton	48,051	0.067	B	N	25	A	10.1	B	Y
Delaware	17,398	ND	--	--	22	A	9.0	A	N
Harrison	14,324	0.067	B	Y	ND	--	ND	--	--
Johnson	142,287	ND	--	--	22	A	9.2	A	N
Lee	35,286	ND	--	--	24	A	10.8	C	N
Linn	217,751	0.062	B	Y	24	A	9.6	B	N
Montgomery	10,421	0.063	B	N	20	A	6.3	A	N
Muscatine	42,903	ND	--	--	26	A	10.5	B	Y
Palo Alto	9,099	0.065	B	N	21	A	8.2	A	N
Polk	459,862	0.062	B	N	21	A	8.9	A	Y
Pottawattamie	93,128	ND	--	--	24	A	9.8	B	N
Scott	171,387	0.063	B	N	24	A	10.0	B	Y
Story	94,073	0.062	B	N	ND	--	ND	--	--
Van Buren	7,468	0.066	B	N	20	A	8.4	A	N
Warren	47,956	0.063	B	N	ND	--	ND	--	--
Woodbury	102,271	ND	--	--	24	A	9.1	A	N
Subtotal	1,671,283								
Not Monitored	1,435,843								
Total	3,107,126								

DV = Design Value

ND = No Data

MM = Multiple Monitors

IOWA

**Table IA-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	388,277	517,502	82,884	84,739	0	9,486	9,510	520,182	437,399	0	24,624	0
B	517,558	134,003	242,986	543,977	705,356	280,431	506,317	937,483	538,726	633,058	1,007,629	1,004,980	1,105,113
C	227,095	228,141	230,720	374,555	224,430	335,898	115,102	0	0	0	72,540	62,851	0
D	223,166	223,077	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	969,819	973,498	991,208	1,001,416	1,014,525	616,329	630,905	946,993	1,058,908	1,070,457	1,080,169	1,092,435	1,105,113
NM	1,965,415	1,968,501	1,962,427	1,963,038	1,968,119	2,382,883	2,385,829	2,085,877	1,987,447	1,991,852	1,994,017	1,997,981	2,002,013
Total	2,935,234	2,941,999	2,953,635	2,964,454	2,982,644	2,999,212	3,016,734	3,032,870	3,046,355	3,062,309	3,074,186	3,090,416	3,107,126

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	668,168	201,580	340,516	111,903	303,688	216,089	747,842	693,510	379,642	896,616	922,570	1,465,540	1,425,168
B	695,705	763,549	665,161	367,268	728,603	811,680	463,135	617,526	895,774	723,115	508,818	10,709	10,726
C	0	367,183	289,570	737,936	293,657	234,932	101,108	19,101	0	14,272	14,293	0	0
D	0	0	0	91,369	0	95,684	0	42,783	42,783	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,364,873	1,332,312	1,295,268	1,308,378	1,325,948	1,358,385	1,312,135	1,432,920	1,318,197	1,434,003	1,445,681	1,476,249	1,435,894
NM	1,570,361	1,609,687	1,658,388	1,656,078	1,656,696	1,640,827	1,704,649	1,599,950	1,728,158	1,628,306	1,628,505	1,614,167	1,671,232
Total	2,935,234	2,941,999	2,953,636	2,964,454	2,982,644	2,999,212	3,016,784	3,032,870	3,046,355	3,062,309	3,074,186	3,090,416	3,107,126

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,061,135	1,083,025	1,253,489	1,017,436	1,234,315	1,035,459	1,210,977	1,311,036	1,196,314	1,349,761	1,431,387	598,386	908,543
B	302,739	249,287	41,758	290,941	91,632	269,567	42,515	67,357	121,884	84,242	14,293	785,844	470,614
C	0	0	0	0	0	53,358	58,593	54,527	0	0	0	92,019	56,737
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,364,874	1,332,312	1,295,268	1,306,377	1,323,947	1,358,384	1,312,135	1,432,920	1,318,198	1,434,003	1,445,680	1,476,249	1,435,894
NM	1,570,360	1,609,687	1,658,388	1,658,077	1,658,697	1,640,828	1,704,849	1,599,950	1,728,157	1,628,306	1,628,506	1,614,167	1,671,232
Total	2,935,234	2,941,999	2,953,636	2,964,454	2,982,644	2,999,212	3,016,784	3,032,870	3,046,355	3,062,309	3,074,186	3,090,416	3,107,126

NM = Not Monitored

Figure IA-1

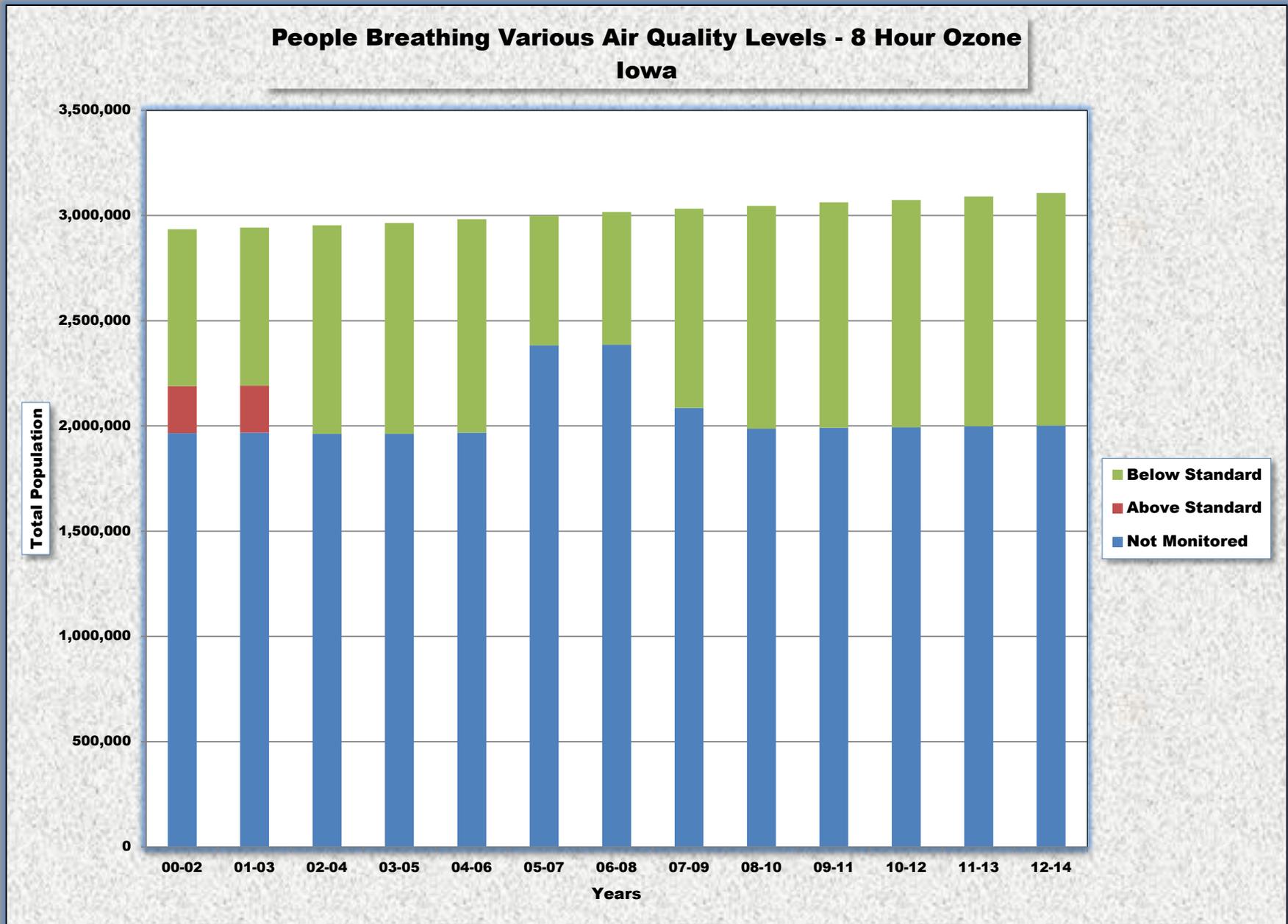


Figure IA-2

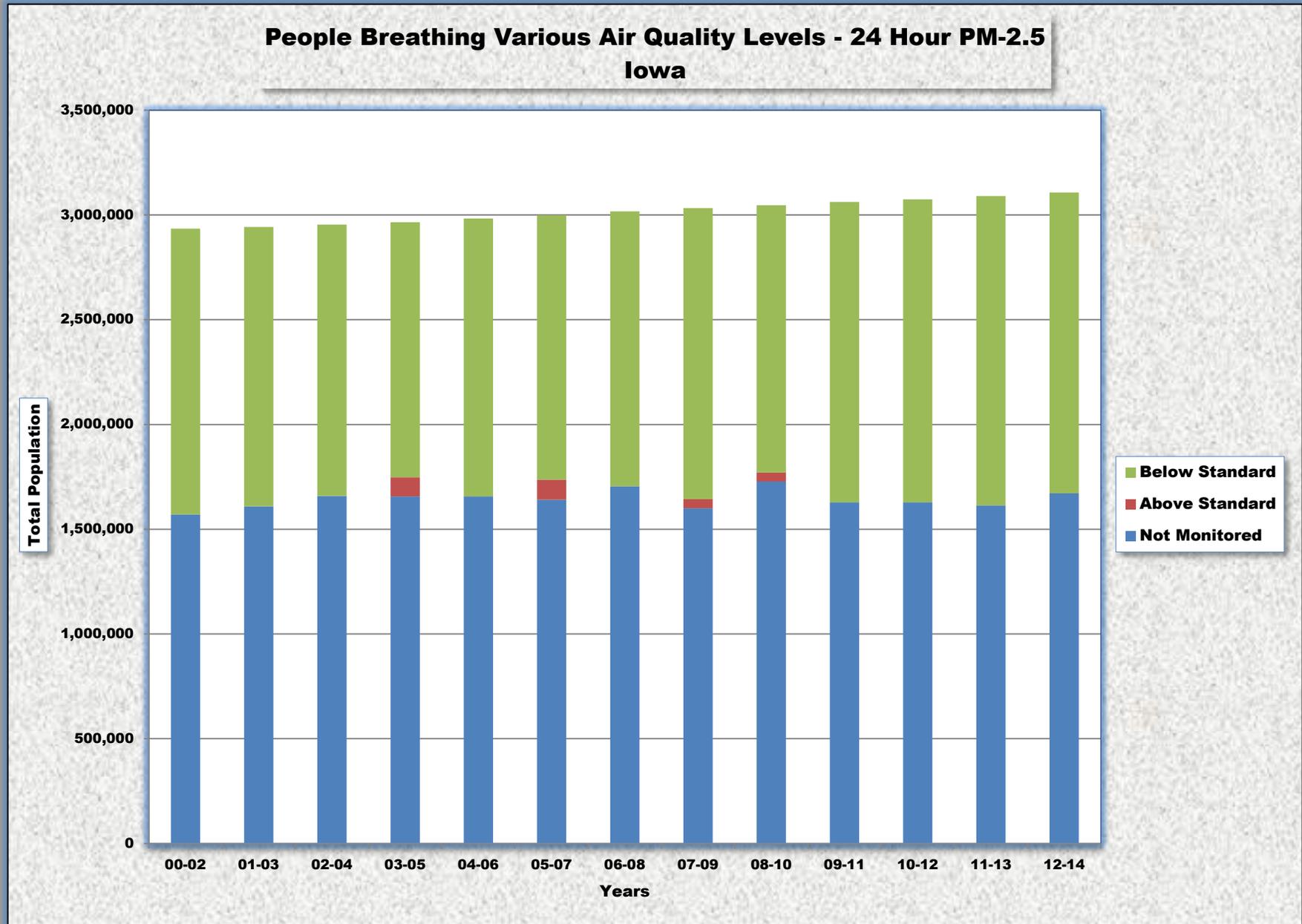
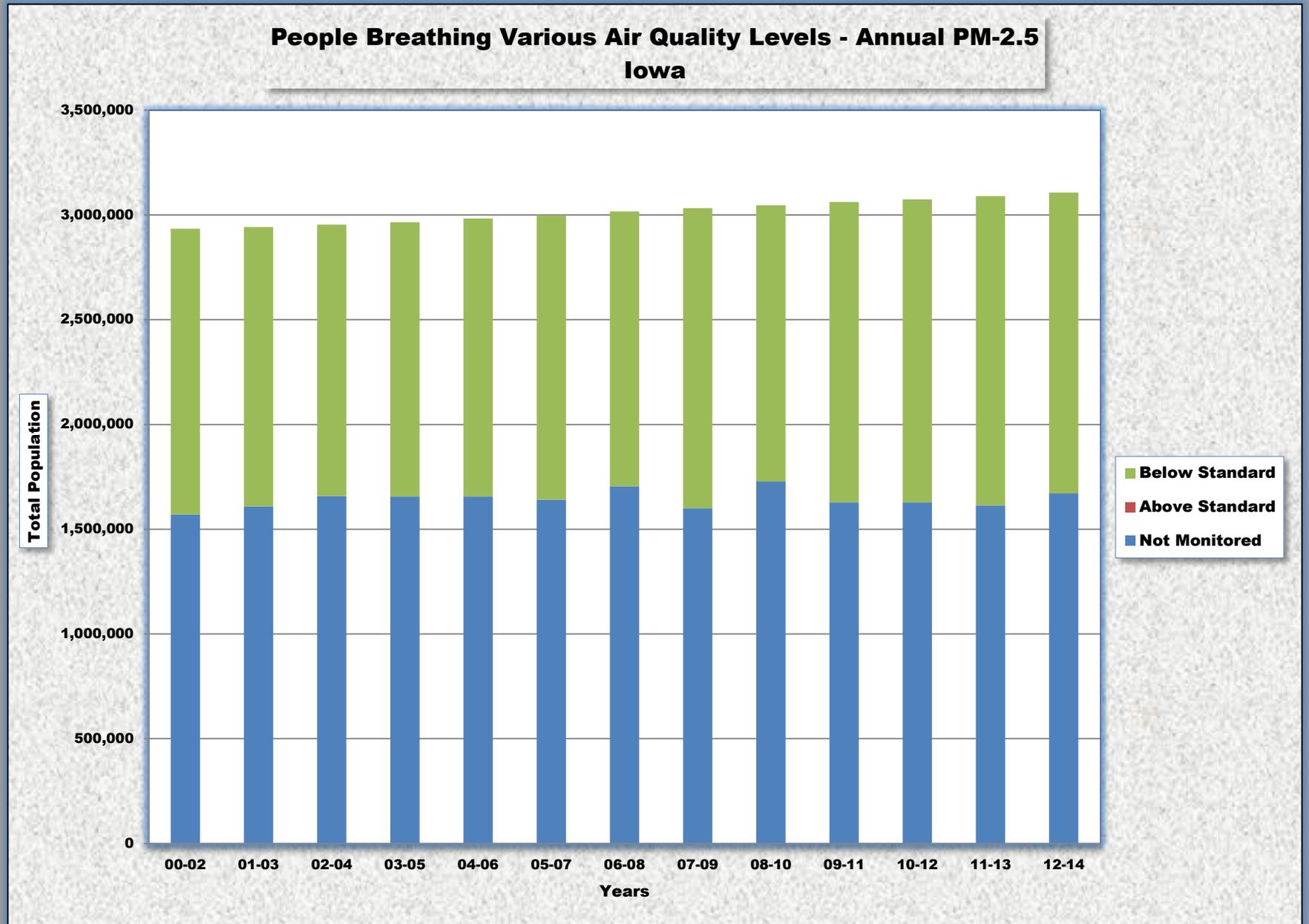


Figure IA-3



KANSAS

Ozone

Significant progress has been made in ozone levels in Kansas. In the 2000 – 2002 time period, approximately 233 thousand people (8.6%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 1.5 million people (52.6%). Figure KS-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Kansas have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.4 million people (51.6%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 1.4 million people (49.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure KS-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Kansas have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.4 million people (51.6%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 1.4 million people (49.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure KS-3 shows the distribution of people by year.

Table KS-1
2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Johnson	574,272	0.070	C	N	17	A	7.6	A	Y
Leavenworth	78,797	0.071	C	N	ND	--	ND	--	--
Sedgwick	508,803	0.072	C	Y	22	A	9.1	A	N
Shawnee	178,406	0.069	C	N	20	A	8.5	A	N
Sumner	23,528	0.073	C	N	20	A	8.1	A	N
Trego	2,902	0.069	C	N	ND	--	ND	--	--
Wyandotte	161,636	0.070	C	N	20	A	9.3	A	N
Subtotal	1,528,344								
Not Monitored	1,375,677								
Total	2,904,021								

DV = Design Value

ND = No Data

KANSAS

Table KS-2 People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	3,137	3,097	235,131	155,704	235,830	239,240	486,077	1,380,258	1,217,685	167,836	159,129	0	0
C	230,510	240,996	266,987	599,266	1,181,757	252,069	798,739	99,621	273,315	1,336,901	269,157	1,249,537	1,528,344
D	423,232	412,745	154,874	504,441	0	776,227	0	0	0	0	1,087,476	276,299	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	656,879	656,838	656,992	1,259,411	1,417,587	1,267,536	1,284,816	1,479,879	1,491,000	504,737	1,515,762	1,525,836	1,528,344
NM	2,056,656	2,066,166	2,077,381	1,485,888	1,345,344	1,516,249	1,523,260	1,352,825	1,362,118	1,366,501	1,370,143	1,368,121	1,375,677
Total	2,713,535	2,723,004	2,734,373	2,745,299	2,762,931	2,783,785	2,808,076	2,832,704	2,853,118	2,871,238	2,885,905	2,893,957	2,904,021

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,320,581	744,788	746,695	744,129	1,330,809	1,113,635	1,207,313	1,401,433	1,411,771	1,324,631	1,435,07	1,444,670	1,446,645
B	78,749	565,496	473,950	588,502	76,845	77,134	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,399,330	1,310,284	1,220,645	1,332,631	1,407,554	1,190,769	1,207,308	1,451,433	1,411,271	1,324,631	1,435,037	1,444,670	1,446,645
NM	1,314,205	1,412,720	1,513,728	1,412,668	1,355,277	1,593,016	1,600,763	1,431,271	1,441,347	1,546,607	1,450,868	1,449,287	1,457,376
Total	2,713,535	2,723,004	2,734,373	2,745,299	2,762,931	2,783,785	2,808,076	2,882,704	2,853,118	2,871,238	2,885,905	2,893,957	2,904,021

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,162,168	1,232,146	1,218,354	1,332,630	1,330,809	1,036,501	1,207,313	1,401,433	1,411,771	1,324,631	1,435,037	1,284,286	1,446,645
B	237,162	0	27,437	154,356	76,845	24,290	0	0	0	0	0	160,384	0
C	0	76,138	0	0	0	24,290	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,390,330	1,310,284	1,245,791	1,486,986	1,407,554	1,085,081	1,207,308	1,451,433	1,411,271	1,324,631	1,435,037	1,444,670	1,446,645
NM	1,314,205	1,412,720	1,488,582	1,258,313	1,355,277	1,698,704	1,600,763	1,431,271	1,441,347	1,546,607	1,450,868	1,449,287	1,457,376
Total	2,713,535	2,723,004	2,734,373	2,745,299	2,762,931	2,783,785	2,808,076	2,882,704	2,853,118	2,871,238	2,885,905	2,893,957	2,904,021

NM = Not Monitored

Figure KS-1

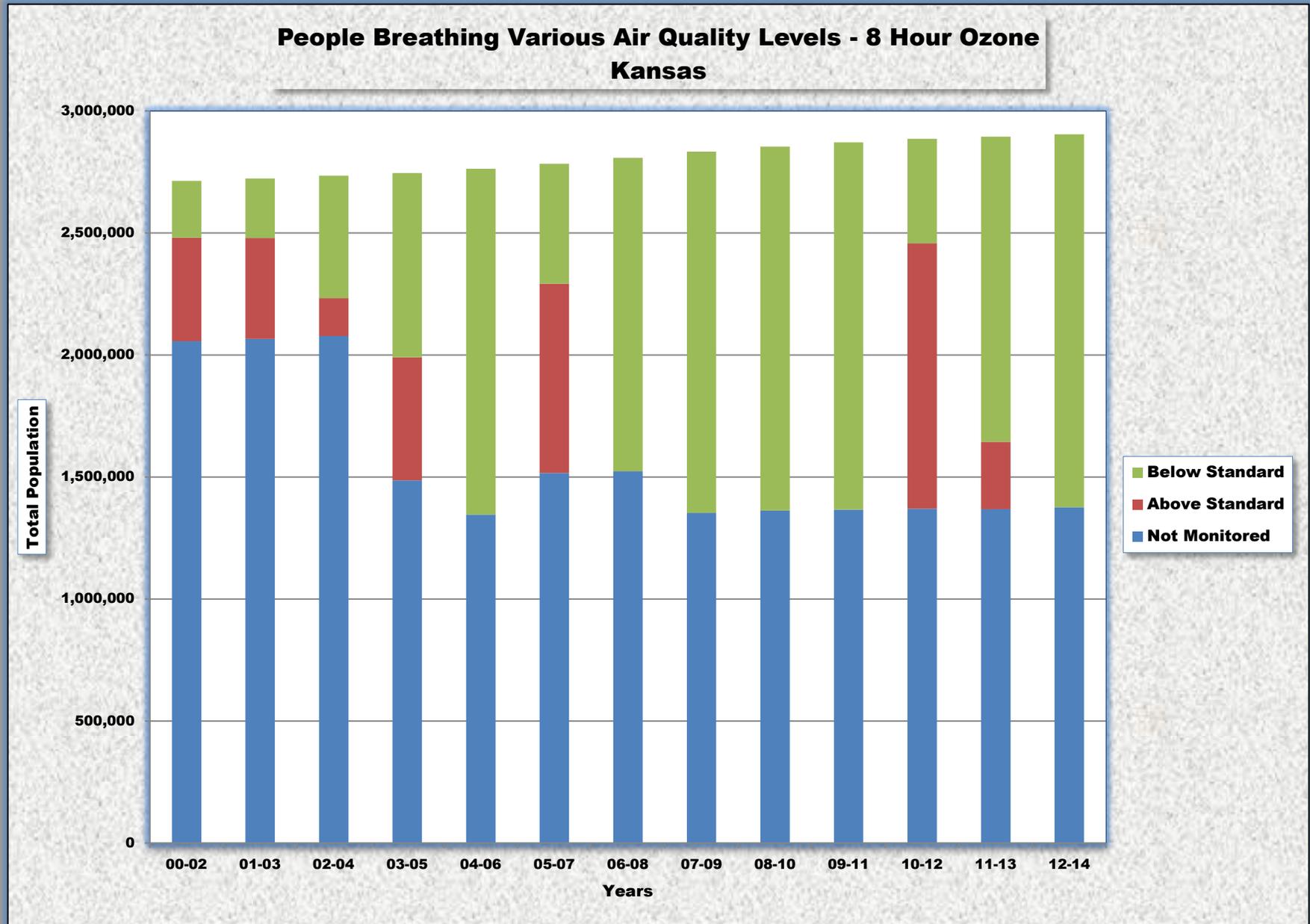


Figure KS-2

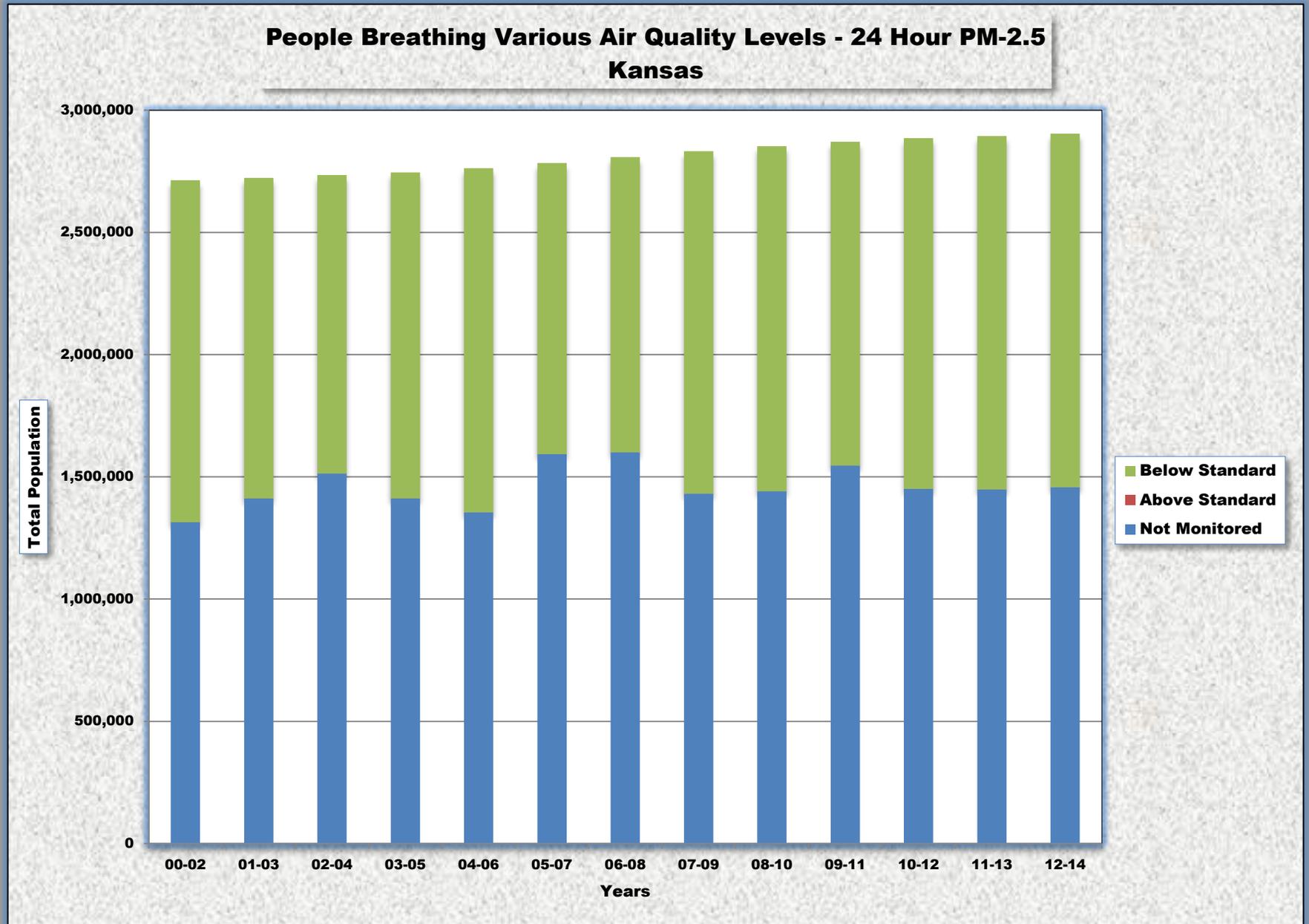
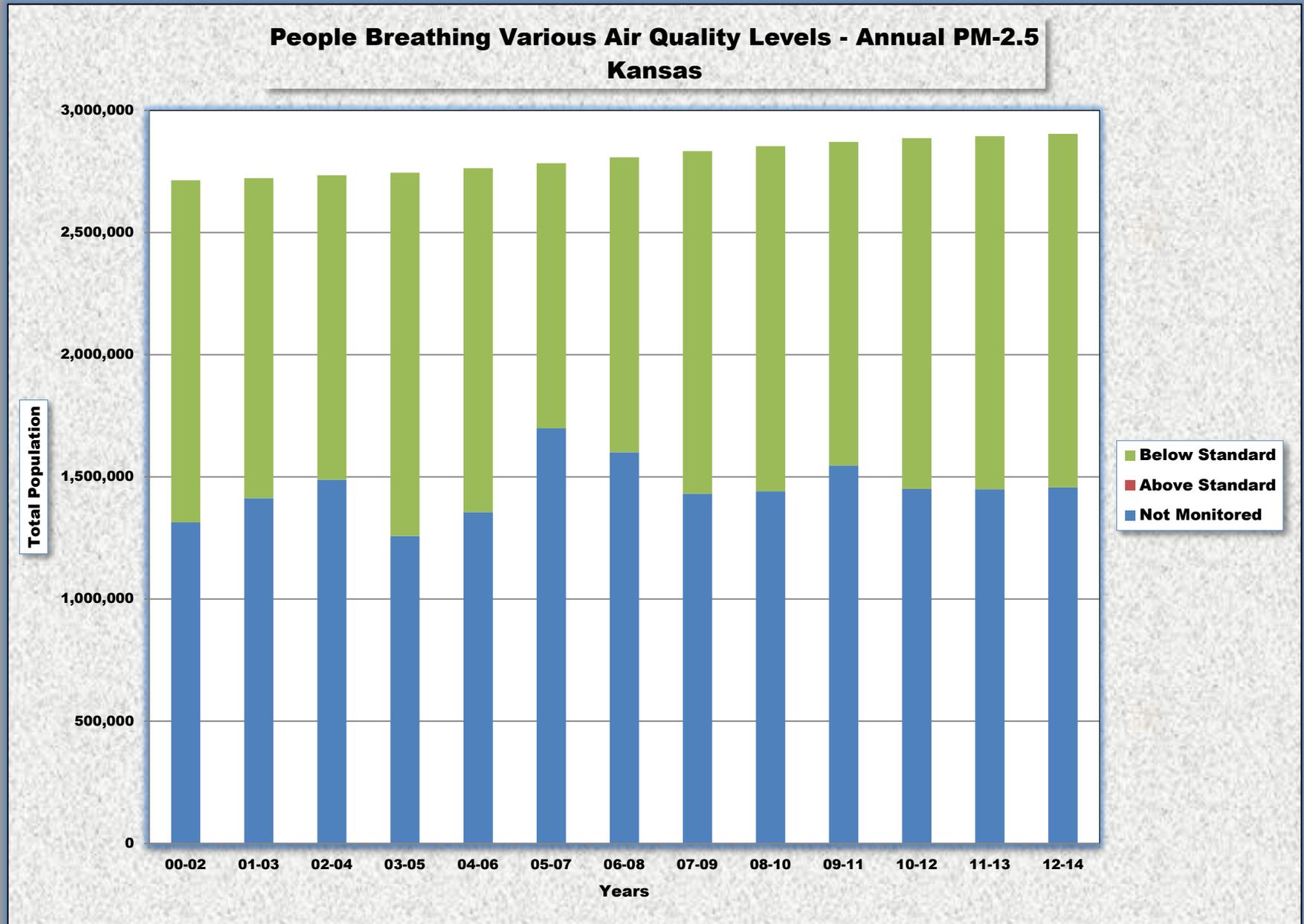


Figure KS-3



KENTUCKY

Ozone

Significant progress has been made in ozone levels in Kentucky. In the 2000 – 2002 time period, approximately 73 thousand people (1.8%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 2.3 million people (51.1%). Figure KY-1 shows the distribution of people by year.

24-Hour PM-2.5

Progress has been made in 24-hour PM-2.5 levels in Kentucky. In the 2000 – 2002 time period, approximately 0.9 million people (22.3%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 1.0 million people (23.7%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure KY-2 shows the distribution of people by year.

Annual PM-2.5

Progress has been made in annual PM-2.5 levels in Kentucky. In the 2000 – 2002 time period, approximately 0.6 million people (14.3%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 1.0 million people (23.7%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure KY-3 shows the distribution of people by year.

KENTUCKY

**Table KY-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Bell	27,778	0.062	B	N	18	A	9.5	A	N
Boone	126,413	0.065	B	N	ND	--	ND	--	--
Boyd	48,832	0.068	C	N	21	A	9.5	A	N
Bullitt	77,955	0.069	C	N	ND	--	ND	--	--
Campbell	91,833	0.075	C	N	22	A	9.7	B	N
Carter	27,223	0.064	B	N	17	A	7.9	A	N
Christian	74,250	0.067	B	N	22	A	9.9	B	N
Daviess	98,275	0.072	C	N	23	A	10.7	B	N
Edmonson	12,013	0.069	C	N	ND	--	ND	--	--
Fayette	310,797	0.067	B	N	20	A	9.5	A	N
Greenup	36,308	0.065	B	N	ND	--	ND	--	--
Hancock	8,753	0.070	C	N	ND	--	ND	--	--
Hardin	108,256	0.067	B	N	21	A	10.6	B	N
Henderson	46,467	0.074	C	N	22	A	10.6	B	N
Jefferson	760,026	0.072	C	Y	ND	--	ND	--	--
Jessamine	50,815	0.067	B	N	ND	--	ND	--	--
Livingston	9,359	0.072	C	N	ND	--	ND	--	--
Madison	87,340	ND	--	--	17	A	8.5	A	N
McCracken	65,316	0.072	C	N	ND	--	ND	--	--
Morgan	13,302	0.064	B	N	ND	--	ND	--	--
Oldham	63,490	0.074	C	N	ND	--	ND	--	--
Perry	27,597	0.063	B	N	ND	--	ND	--	--
Pike	63,034	0.062	B	N	17	A	8.4	A	Y
Pulaski	63,825	0.066	B	N	20	A	9.2	A	N
Simpson	17,826	0.064	B	N	ND	--	ND	--	--
Trigg	14,142	0.069	C	N	ND	--	ND	--	--
Washington	11,959	0.068	C	N	ND	--	ND	--	--
Subtotal	2,343,184								
Not Monitored	2,070,273								
Total	4,413,457								

DV = Design Value

ND = No Data

MM = Multiple Monitors

***** = PM-2.5 data for Jefferson county has been removed. Problems with sampling have resulted in data that is questionable.**

KENTUCKY

**Table KY-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	139,986	0	0	0	0	0	0	0	0
B	0	0	38,051	203,489	65,632	141,646	0	202,753	447,486	499,923	28,189	355,999	839,168
C	72,648	251,538	950,192	1,394,383	1,693,874	776,826	1,424,582	1,601,997	1,849,515	1,379,889	1,045,051	1,056,764	1,416,676
D	549,558	1,332,035	1,215,211	708,989	368,617	1,369,345	994,520	464,584	0	434,095	810,045	802,472	0
F	1,437,898	681,033	190,354	88,047	0	57,991	0	0	0	0	311,688	0	0
Subtotal	2,060,104	2,254,506	2,393,808	2,394,858	2,268,109	2,345,808	2,415,102	2,269,334	2,297,021	2,313,907	2,194,973	2,215,235	2,255,844
NM	2,029,771	1,852,564	1,752,293	1,787,834	1,951,130	1,910,864	1,870,776	2,047,740	2,042,366	2,055,449	2,185,442	2,180,060	2,157,613
Total	4,089,875	4,117,170	4,146,101	4,182,742	4,219,239	4,256,672	4,285,878	4,317,074	4,339,367	4,369,356	4,380,415	4,395,295	4,413,457

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	29,173	112,382	56,465	0	28,794	260,679	1,103,709	1,360,093	1,277,948	1,037,417	979,282	1,047,910
B	403,596	429,528	820,506	905,609	780,183	780,242	1,079,982	556,791	0	0	0	0	0
C	508,716	892,526	629,976	522,098	450,025	574,293	365,097	245,568	0	0	0	0	0
D	467,077	202,345	353,414	355,009	22,817	180,760	182,549	0	0	0	0	0	0
F	466,540	169,313	176,707	177,505	11,408	361,520	0	0	0	0	0	0	0
Subtotal	1,845,930	2,022,885	2,092,985	2,016,686	1,264,433	1,925,609	1,884,257	1,906,068	1,360,093	1,277,948	1,037,417	979,282	1,047,910
NM	2,243,946	2,094,285	2,053,116	2,166,056	2,954,806	2,331,063	2,401,621	2,411,006	2,979,274	3,091,408	3,342,998	3,416,013	3,365,547
Total	4,089,875	4,117,170	4,146,101	4,182,742	4,219,239	4,256,672	4,285,878	4,317,074	4,339,367	4,369,356	4,380,415	4,395,295	4,413,457

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	27,526	27,767	0	0	0	125,130	1,142,898	1,105,605	1,067,417	176,172	628,829
B	27,262	311,116	672,679	433,629	484,154	259,295	187,353	737,091	217,225	172,343	0	596,701	419,081
C	558,314	872,847	928,727	1,022,776	757,462	943,273	970,709	798,279	0	0	0	206,409	0
D	793,813	604,265	530,121	532,514	22,817	723,040	730,194	0	0	0	0	0	0
F	466,540	234,657	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,845,930	2,022,885	2,159,055	2,016,686	1,264,433	1,925,608	1,884,256	1,660,500	1,360,093	1,277,948	1,037,417	979,282	1,047,910
NM	2,243,946	2,094,285	1,987,046	2,166,056	2,954,806	2,331,064	2,401,622	2,656,574	2,979,274	3,091,408	3,342,998	3,416,013	3,365,547
Total	4,089,875	4,117,170	4,146,101	4,182,742	4,219,239	4,256,672	4,285,878	4,317,074	4,339,367	4,369,356	4,380,415	4,395,295	4,413,457

NM = Not Monitored

Figure KY-1

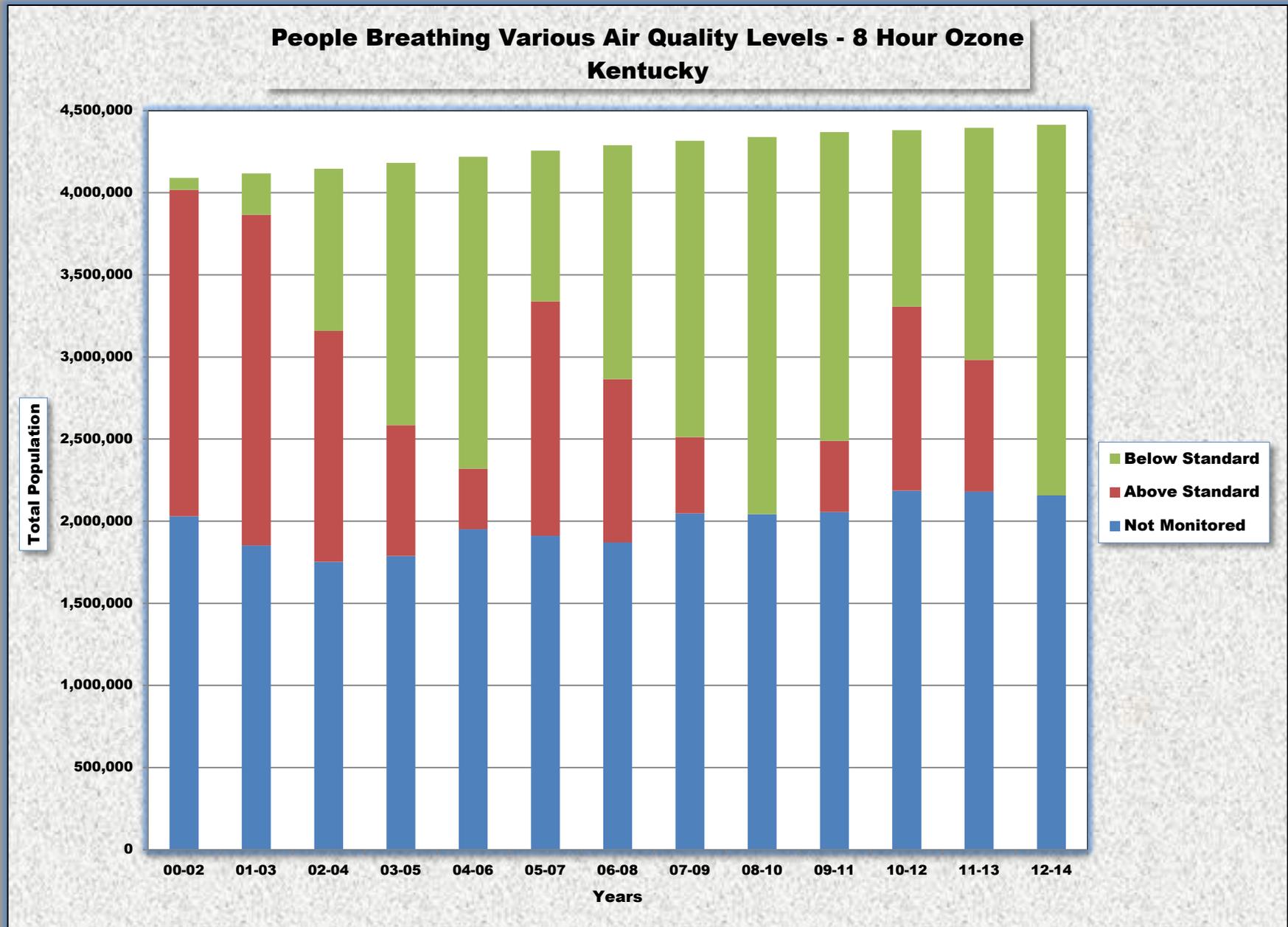


Figure KY-2

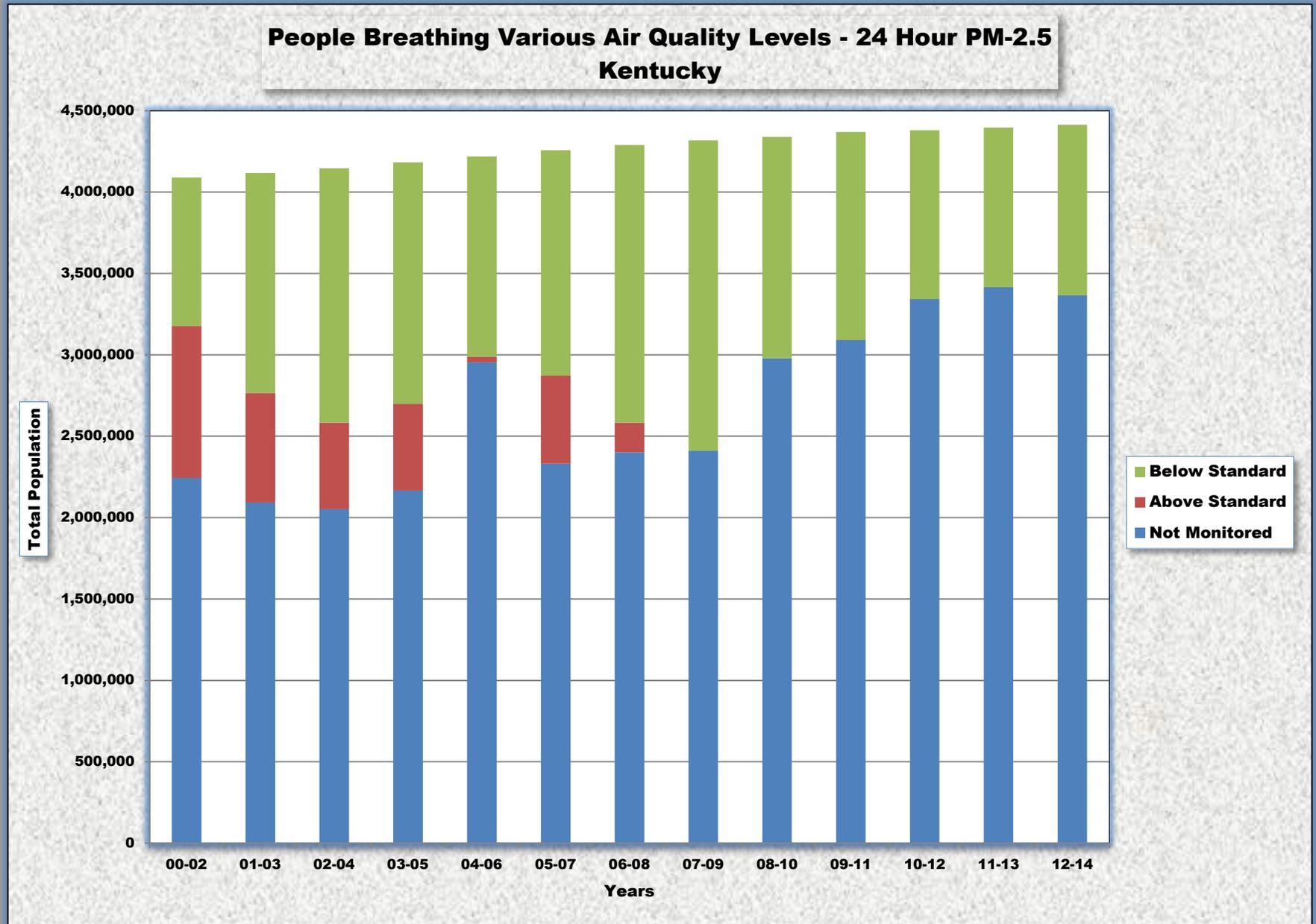
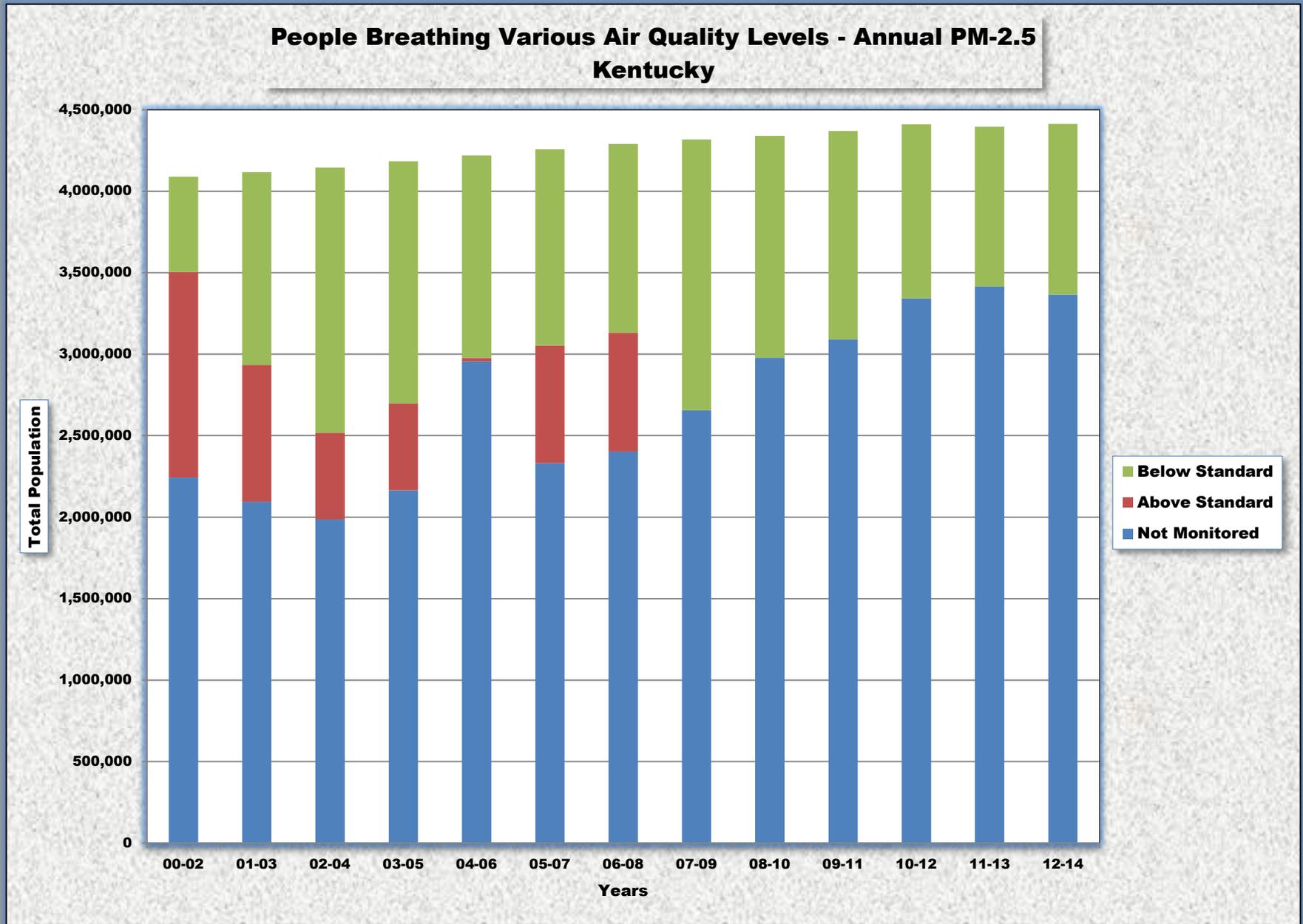


Figure KY-3



LOUISIANA

Ozone

Significant progress has been made in ozone levels in Louisiana. In the 2000 – 2002 time period, approximately 0.5 million people (12.1%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 3.1 million people (66.9%). Figure LA-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour levels of PM-2.5 in Louisiana have historically been better than the standard. In the 2000 – 2002 time period, approximately 2.8 million people (61.6%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 2.1 million people (44.9%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure LA-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Louisiana have historically been better than the standard. In the 2000 – 2002 time period, approximately 2.6 million people (57.5%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had decreased to approximately 2.1 million people (44.9%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure LA-3 shows the distribution of people by year.

LOUISIANA

**Table LA-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg.24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Ascension	117,029	0.067	B	N	ND	--	ND	--	--
Bossier	125,064	0.068	C	N	ND	--	ND	--	--
Caddo	252,603	0.068	C	N	22	A	11.0	C	N
Calcasieu	197,204	0.066	B	Y	17	A	7.7	A	Y
E. Baton Rouge	446,042	0.069	C	Y	23	A	9.9	B	N
Iberville	33,327	0.067	B	N	19	A	8.5	A	Y
Jefferson	435,716	0.069	C	N	17	A	8.0	A	Y
Lafayette	235,644	0.068	C	N	17	A	8.2	A	N
Lafourche	98,020	0.068	C	N	ND	--	ND	--	--
Livingston	135,751	0.071	C	N	ND	--	ND	--	--
Orleans	384,320	0.067	B	N	ND	--	ND	--	--
Ouachita	156,325	0.059	A	N	19	A	8.3	A	N
Pointe Coupee	22,406	0.071	C	N	ND	--	ND	--	--
Rapides	132,488	ND	--	--	17	A	7.9	A	N
St Bernard	44,409	0.067	B	N	21	A	9.2	A	N
St Charles	52,745	0.065	B	N	ND	--	ND	--	--
St James	21,638	0.064	B	N	ND	--	ND	--	--
St John the Baptist	43,745	0.069	C	N	ND	--	ND	--	--
St Tammany	245,829	0.071	C	N	ND	--	ND	--	--
Tangipahoa	127,049	ND	--	--	17	A	8.1	A	N
W. Baton Rouge	25,085	0.065	B	N	20	A	9.2	A	N
Subtotal	3,332,439								
Not Monitored	1,317,237								
Total	4,649,676								

DV = Design Value

ND = No Data

MM = Multiple Monitors

LOUISIANA

**Table LA-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	156,325
B	0	0	0	0	0	0	213,703	216,751	217,976	219,616	155,363	295,688	892,968
C	545,173	951,629	789,073	86,269	61,783	213,517	420,818	1,177,837	2,385,786	1,635,122	2,000,954	2,499,176	2,063,609
D	1,430,145	1,592,467	1,879,631	1,379,947	1,722,532	1,052,990	1,547,456	868,230	110,043	1,103,515	827,267	254,887	0
F	893,057	342,249	240,036	769,326	261,837	818,101	125,857	0	0	0	0	0	0
Subtotal	2,868,375	2,886,345	2,908,740	2,245,542	2,046,152	2,384,603	2,307,834	2,262,816	2,713,805	2,958,253	2,983,584	2,949,751	3,112,902
NM	1,628,892	1,634,697	1,643,498	2,341,086	2,256,513	2,290,973	2,127,752	2,228,830	1,819,567	1,616,583	1,618,309	1,575,719	1,536,774
Total	4,497,267	4,521,042	4,552,238	4,586,628	4,302,665	4,375,581	4,435,586	4,491,646	4,533,372	4,574,836	4,601,893	4,625,470	4,649,676

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,129,092	1,691,299	2,124,954	1,117,174	741,620	1,089,616	1,839,072	2,115,457	2,004,352	2,144,180	2,178,882	2,189,548	2,085,892
B	1,321,107	780,802	358,312	830,041	1,094,595	741,948	0	0	0	0	0	0	0
C	320,495	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,770,694	2,472,101	2,483,266	1,957,215	1,836,415	1,831,564	1,839,072	2,115,455	2,004,352	2,144,180	2,178,882	2,189,548	2,085,892
NM	1,726,573	2,048,941	2,068,972	2,629,413	2,466,250	2,544,017	2,596,514	2,376,191	2,529,020	2,430,656	2,423,011	2,435,922	2,563,784
Total	4,497,267	4,521,042	4,552,238	4,586,628	4,302,665	4,375,581	4,435,586	4,491,646	4,533,372	4,574,836	4,601,893	4,625,470	4,649,676

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	477,592	1,053,406	2,040,670	1,245,532	1,036,271	872,944	1,582,116	2,115,457	2,004,352	2,144,180	2,065,155	1,866,606	1,639,850
B	1,835,600	1,418,694	472,597	701,683	560,741	935,436	40,095	0	0	0	0	24,573	446,042
C	274,016	0	0	0	239,403	23,184	0	0	0	0	0	298,369	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,587,208	2,472,102	2,483,267	1,957,215	1,836,415	1,831,564	1,622,211	2,115,455	2,004,352	2,144,180	2,065,355	2,189,548	2,085,892
NM	1,910,059	2,048,940	2,068,971	2,629,413	2,466,250	2,544,017	2,813,375	2,376,191	2,529,020	2,430,656	2,536,538	2,435,922	2,563,784
Total	4,497,267	4,521,042	4,552,238	4,586,628	4,302,665	4,375,581	4,435,586	4,491,646	4,533,372	4,574,836	4,601,893	4,625,470	4,649,676

NM = Not Monitored

Figure LA-1

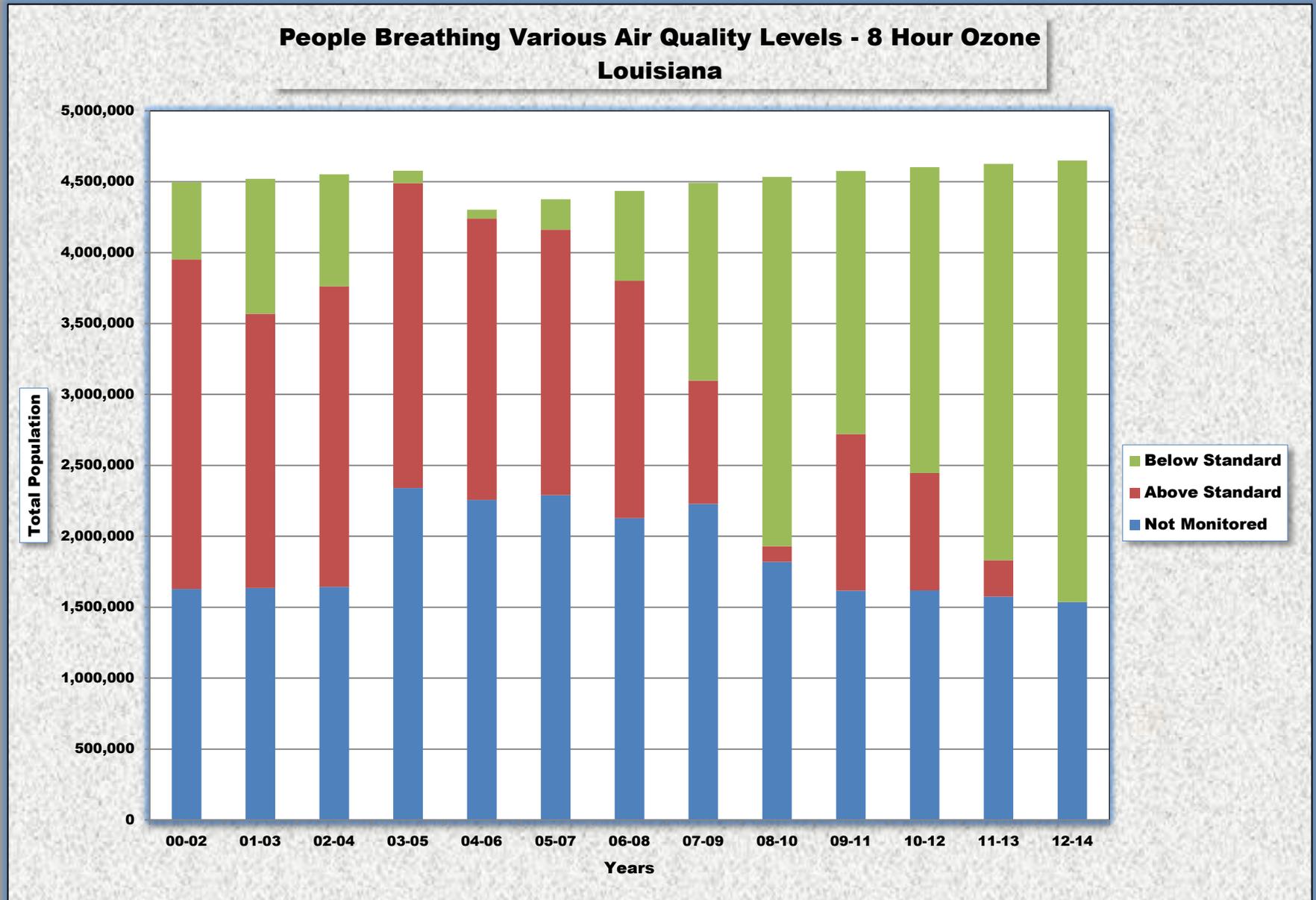


Figure LA-2

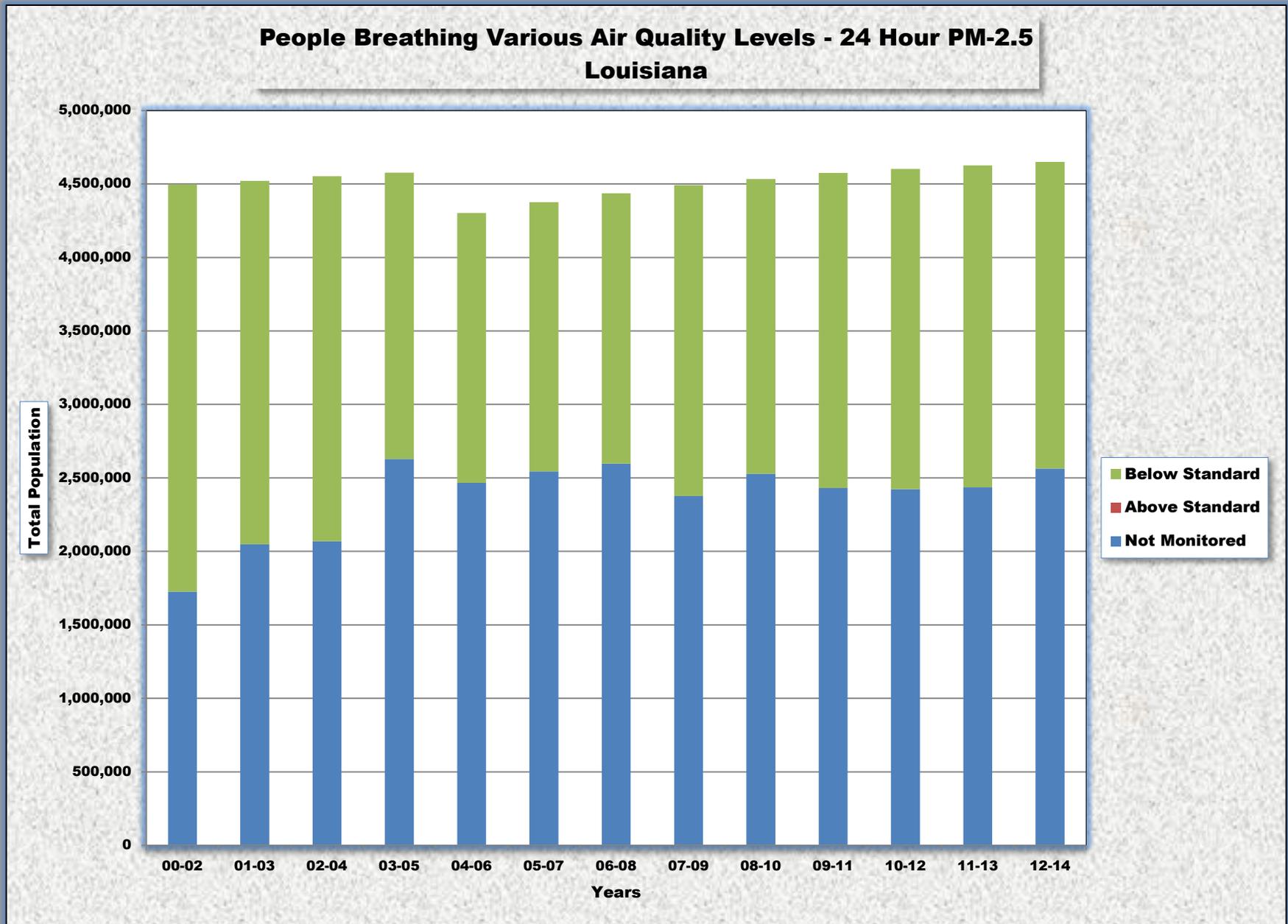
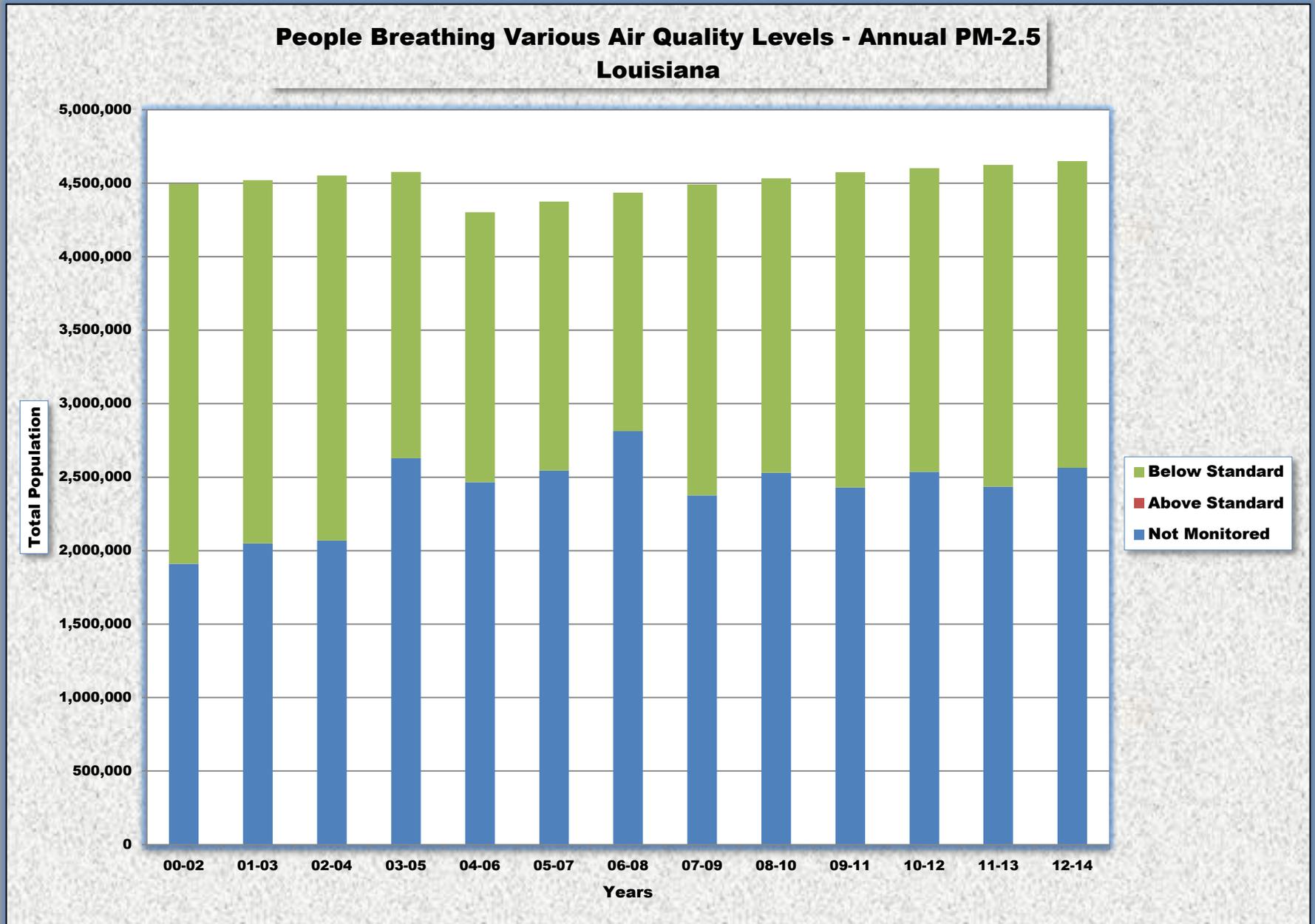


Figure LA-3



MAINE

Ozone

Significant progress has been made in ozone levels in Maine. In the 2000 – 2002 time period, approximately 56 thousand people (4.3%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 1.2 million people (87.1%). The remainder of the population lived in counties where ozone was not measured. Figure ME-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Maine have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.0 million people (74.4%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 0.79 million people (59.7%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure ME-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Maine have generally been better than the standard. In the 2000 – 2002 time period, approximately 1.0 million people (74.4%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had decreased to approximately 0.79 million people (59.7%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure ME-3 shows the distribution of people by year.

Table ME-1
2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Androscoggin	107,440	0.061	B	N	19	A	7.0	A	N
Aroostook	69,447	0.053	A	N	15	A	5.3	A	Y
Cumberland	287,797	0.065	B	Y	19	A	8.3	A	N
Hancock	54,696	0.064	B	Y	11	A	4.4	A	N
Kennebec	121,112	0.062	B	N	22	A	7.5	A	N
Knox	39,676	0.066	B	N	ND	--	ND	--	--
Oxford	57,238	0.053	A	N	ND	--	ND	--	--
Penobscot	153,414	0.058	A	N	16	A	6.7	A	N
Sagadahoc	35,045	0.060	B	N	ND	--	ND	--	--
Washington	31,808	0.054	A	Y	ND	--	ND	--	--
York	200,710	0.065	B	Y	ND	--	ND	--	--
Subtotal	1,158,383								
Not Monitored	171,706								
Total	1,330,089								

DV = Design Value

ND = No Data

MM = Multiple Monitors

MAINE

Table ME-2 People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	196,098	33,424	16,645	88,721	283,626	422,867	349,748	212,886	311,907
B	55,843	56,206	56,763	57,235	205,344	57,966	228,155	228,156	577,141	330,606	570,930	566,886	635,674
C	0	0	232,488	684,067	516,105	786,548	569,064	668,419	293,821	301,553	235,575	276,178	210,802
D	118,611	155,504	499,708	91,219	18,003	40,297	126,011	27,250	0	0	0	0	0
F	557,218	711,074	149,476	0	0	18,100	0	0	0	0	0	0	0
Subtotal	731,672	922,784	438,435	832,521	935,550	936,335	939,875	1,012,546	1,154,588	1,055,026	1,156,253	1,055,950	1,158,383
NM	564,288	383,729	375,253	486,266	388,069	390,705	390,634	317,044	173,773	273,162	172,939	272,352	171,706
Total	1,295,960	1,306,513	1,313,688	1,318,787	1,323,619	1,327,040	1,330,509	1,329,590	1,328,361	1,328,188	1,329,192	1,328,302	1,330,089

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	523,890	232,323	148,814	222,607	453,713	791,170	795,166	795,834	795,153	849,275	850,036	849,765	793,906
B	350,323	377,958	494,352	561,819	334,640	0	0	0	0	0	0	0	0
C	90,178	362,199	137,460	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	964,391	972,480	780,626	784,426	788,353	791,170	795,166	795,834	795,153	849,275	850,036	849,765	793,906
NM	331,569	334,033	533,062	534,361	535,266	535,870	535,343	533,756	533,208	478,913	479,156	478,537	536,183
Total	1,295,960	1,306,513	1,313,688	1,318,787	1,323,619	1,327,040	1,330,509	1,329,590	1,328,361	1,328,188	1,329,192	1,328,302	1,330,089

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	304,220	36,472	36,480	36,441	187,860	332,682	514,485	795,834	795,153	849,275	850,036	849,765	793,906
B	443,344	400,816	432,747	471,711	323,410	458,488	280,681	0	0	0	0	0	0
C	216,826	535,191	311,400	136,138	277,084	0	0	0	0	0	0	0	0
D	0	0	0	138,138	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	964,390	972,479	780,627	784,428	788,354	791,170	795,166	795,834	795,153	849,275	850,036	849,765	793,906
NM	331,570	334,034	533,061	534,359	535,265	535,870	535,343	533,756	533,208	478,913	479,156	478,537	536,183
Total	1,295,960	1,306,513	1,313,688	1,318,787	1,323,619	1,327,040	1,330,509	1,329,590	1,328,361	1,328,188	1,329,192	1,328,302	1,330,089

NM = Monitored

Figure ME-1

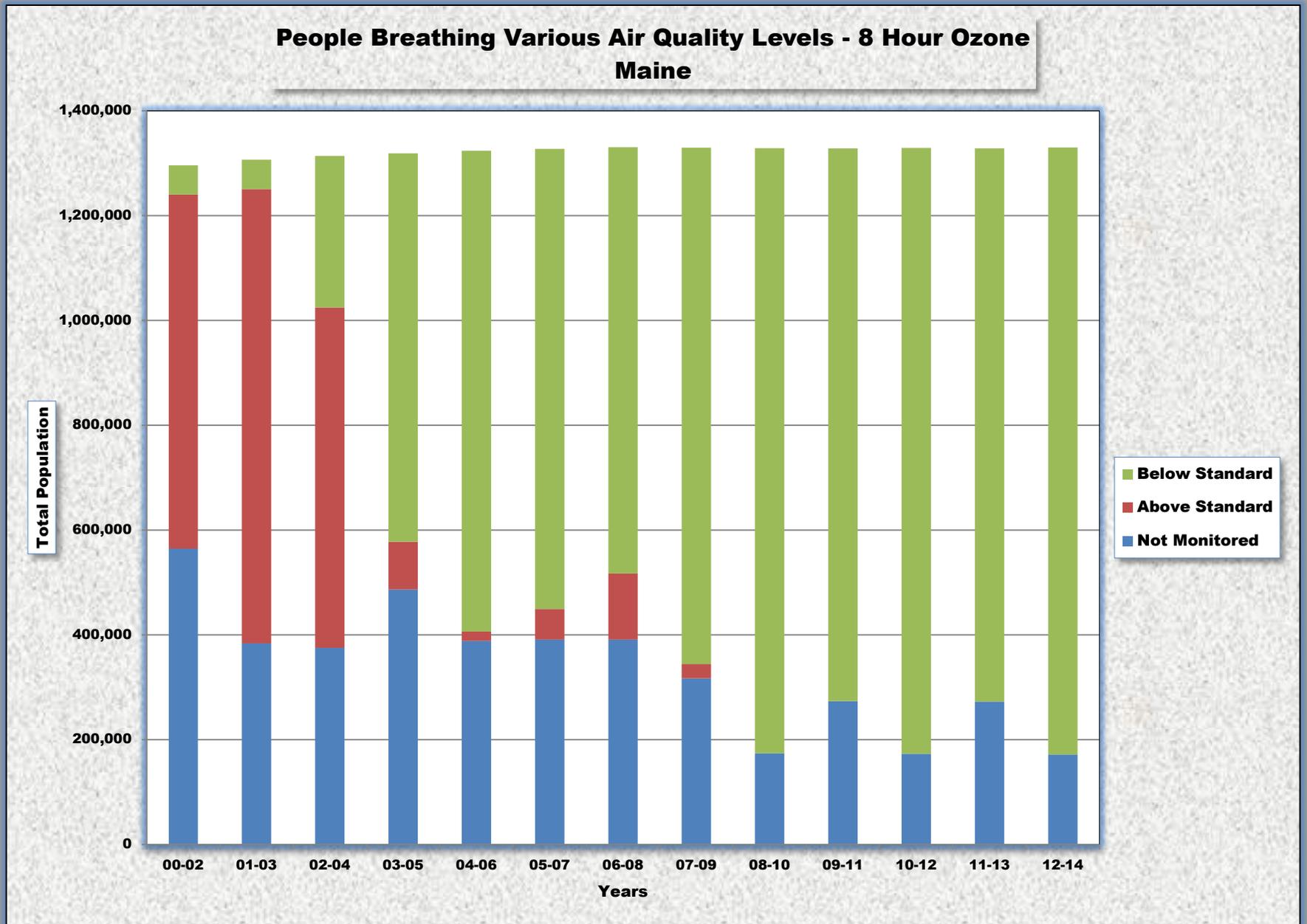


Figure ME-2

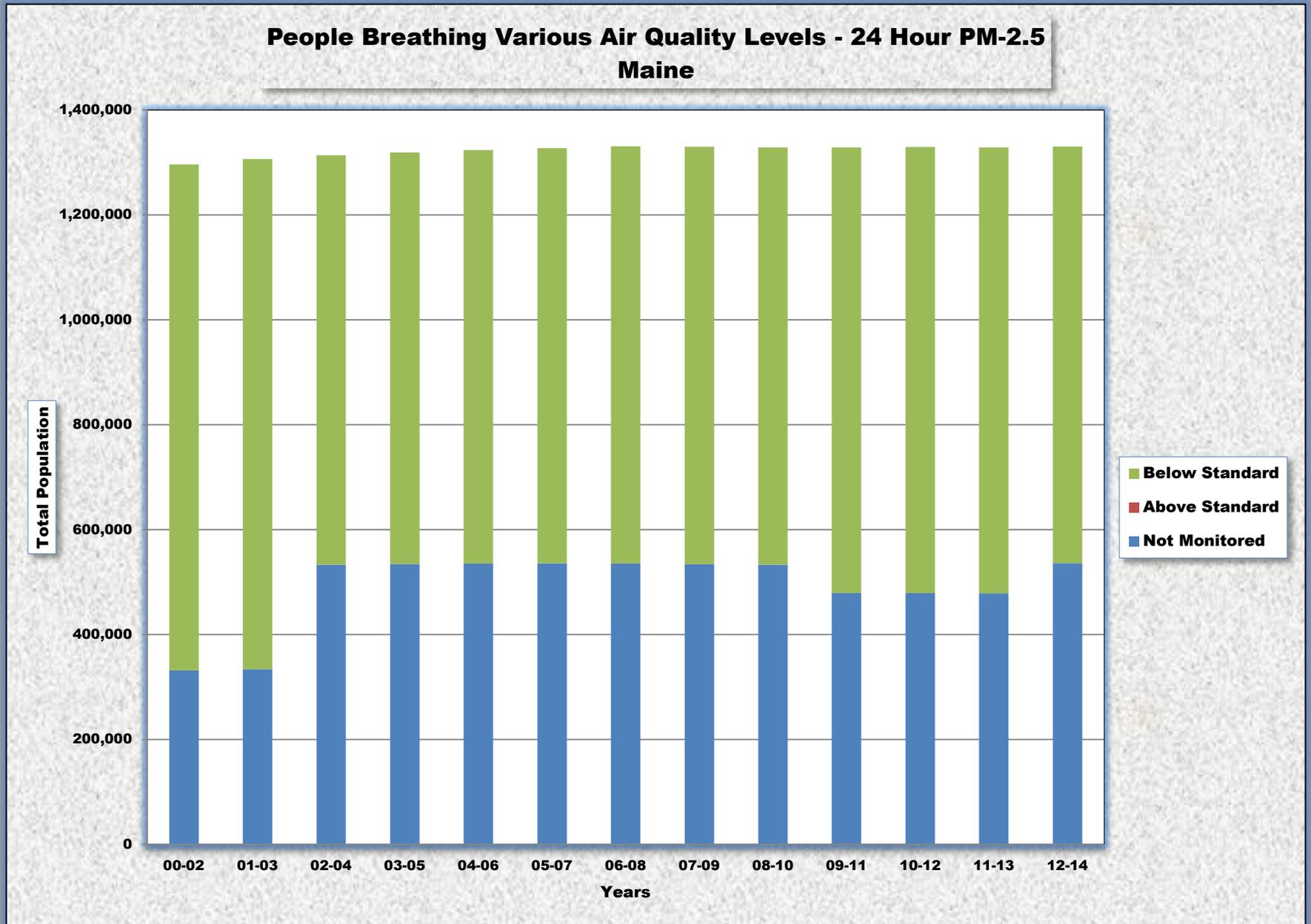
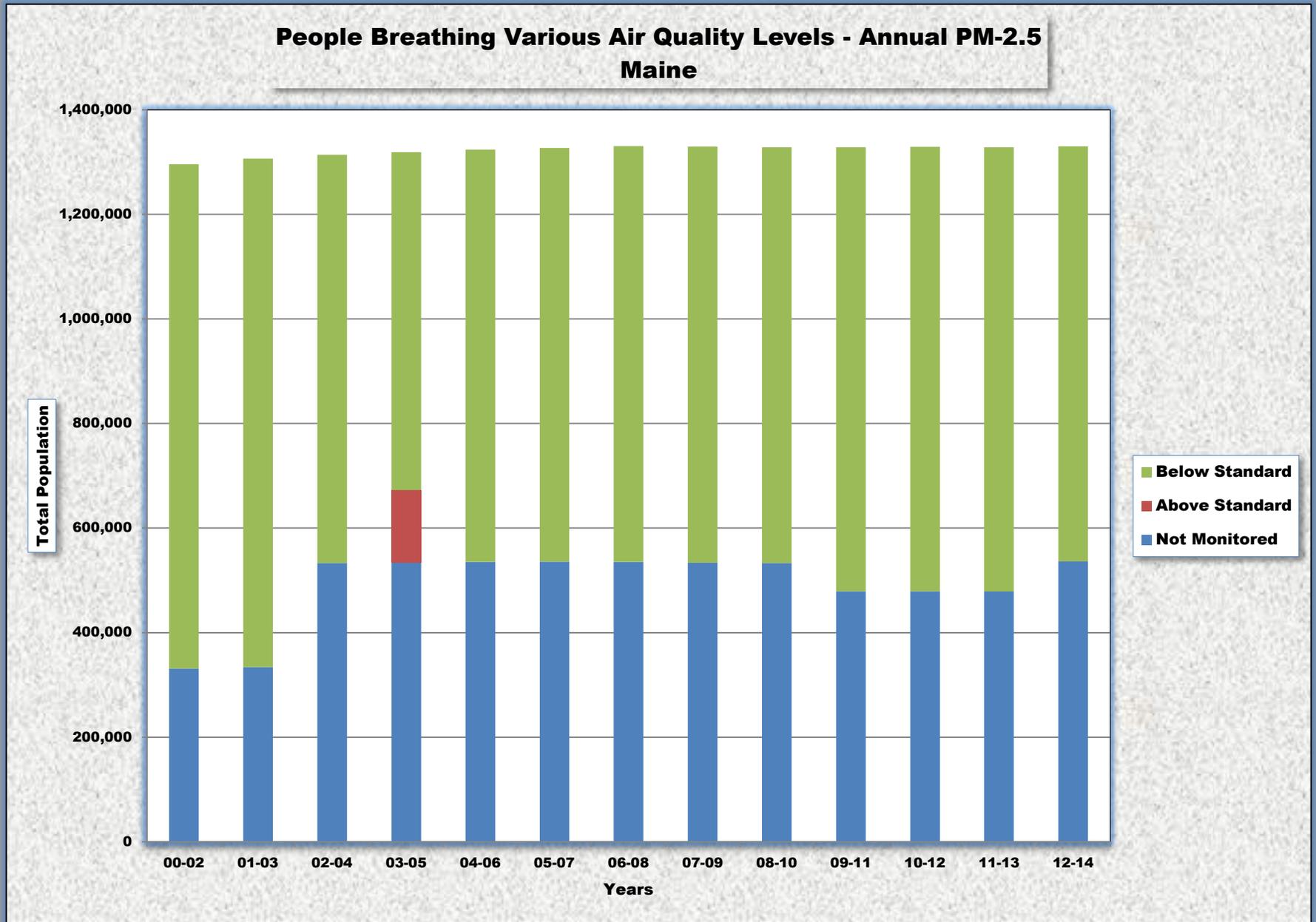


Figure ME-3



MARYLAND

Ozone

Significant progress has been made in ozone levels in Maryland. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 4.8 million people (80.0%). Figure MD-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Maryland. In the 2000 – 2002 time period, approximately 1.1 million people (20.0%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 4.5 million people (75.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MD-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in Maryland. In the 2000 – 2002 time period, approximately 2.1 million people (39.1%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 4.5 million people (75.8%). Figure MD-3 shows the distribution of people by year.

Table MD-1
2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Anne Arundel	560,133	0.074	C	N	23	A	9.5	A	N
Baltimore	826,926	0.072	C	Y	23	A	9.4	A	Y
Calvert	90,613	0.073	C	N	ND	--	ND	--	--
Carroll	167,830	0.069	C	N	ND	--	ND	--	--
Cecil	102,383	0.077	D	N	24	A	9.3	A	N
Charles	154,747	0.071	C	N	ND	--	ND	--	--
Dorchester	32,578	0.071	C	Y	20	A	7.9	A	N
Frederick	243,675	0.070	C	N	ND	--	ND	--	--
Garrett	29,679	0.068	C	N	17	A	7.6	A	N
Harford	250,105	0.074	C	Y	24	A	10.4	B	N
Kent	19,820	0.074	C	N	22	A	9.3	A	N
Montgomery	1,030,447	0.068	C	N	21	A	9.1	A	N
Prince Georges	904,430	0.073	C	Y	20	A	8.7	A	Y
Washington	149,573	0.067	B	N	26	A	9.6	B	N
Baltimore (city)	622,793	0.064	B	N	23	A	9.9	B	Y
Subtotal	5,185,732								
Not Monitored	790,675								
Total	5,976,407								

DV = Design Value

ND = No Data

MM = Multiple Monitors

MARYLAND

**Table MD-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	620,509	620,961	0	0	0	772,366
C	0	0	0	0	30,147	0	30,222	811,050	1,549,437	198,458	791,376	2,259,891	4,009,506
D	0	0	0	1,864,585	952,100	574,358	1,006,857	2,329,405	2,681,497	4,702,222	2,405,307	2,756,652	403,860
F	3,873,971	4,021,061	4,064,457	2,237,735	3,174,302	2,667,093	2,305,391	222,659	122,413	123,245	1,866,012	124,608	0
Subtotal	3,973,971	4,021,061	4,064,457	4,102,320	4,156,549	3,241,451	3,342,470	3,983,623	4,974,308	5,023,925	5,062,694	5,141,151	5,185,732
NM	1,466,418	1,475,208	1,482,478	1,490,059	1,470,818	2,411,957	2,342,495	1,746,765	799,244	804,364	821,869	787,663	790,675
Total	5,440,389	5,496,269	5,546,935	5,592,379	5,627,367	5,653,408	5,684,965	5,730,388	5,773,552	5,828,289	5,884,563	5,928,814	5,976,407

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	2,021,241	3,041,556	3,120,147	3,668,018	4,146,912	4,528,867
B	0	0	0	0	1,266,476	2,269,045	2,282,560	1,684,068	1,250,651	816,411	207,114	170,368	0
C	1,087,577	1,394,658	1,902,692	2,825,493	2,556,258	1,564,698	1,944,139	556,031	0	0	0	0	0
D	2,042,139	768,569	728,587	1,049,449	248,444	372,184	0	0	0	0	0	0	0
F	983,724	1,030,112	579,849	207,187	124,222	0	0	0	0	0	0	0	0
Subtotal	4,093,440	3,193,339	3,211,115	4,082,129	4,195,400	4,205,927	4,226,699	4,261,340	4,297,207	3,936,558	3,875,131	4,316,780	4,528,867
NM	1,346,949	2,302,930	2,335,820	1,510,250	1,431,967	1,447,481	1,458,266	1,469,048	1,481,345	1,891,731	2,009,432	1,611,534	1,447,540
Total	5,440,389	5,496,269	5,546,935	5,592,379	5,627,367	5,653,408	5,684,965	5,730,388	5,778,552	5,828,289	5,884,563	5,928,814	5,976,407

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	172,057	0	0	2,135,886	2,577,272	4,292,207	3,781,685	3,668,018	1,026,916	3,055,913
B	993,201	1,395,794	1,406,470	2,013,204	2,118,573	2,269,045	1,381,396	1,684,068	0	154,873	207,114	2,674,956	1,265,356
C	1,132,347	1,031,248	1,260,183	915,883	1,704,161	1,688,760	709,418	0	0	0	0	445,041	207,598
D	1,138,999	670,491	544,463	877,392	372,665	248,122	0	0	0	0	0	170,368	0
F	828,893	125,807	0	103,593	0	0	0	0	0	0	0	0	0
Subtotal	4,093,440	3,193,340	3,211,116	4,082,129	4,195,400	4,205,927	4,226,700	4,261,340	4,297,208	3,936,558	3,875,131	4,316,781	4,528,867
NM	1,346,949	2,302,929	2,335,819	1,510,250	1,431,968	1,447,481	1,458,265	1,469,048	1,481,345	1,891,731	2,009,432	1,611,533	1,447,540
Total	5,440,389	5,496,269	5,546,935	5,592,379	5,627,367	5,653,408	5,684,965	5,730,388	5,778,552	5,828,289	5,884,563	5,928,814	5,976,407

NM = Not Monitored

Figure MD-1

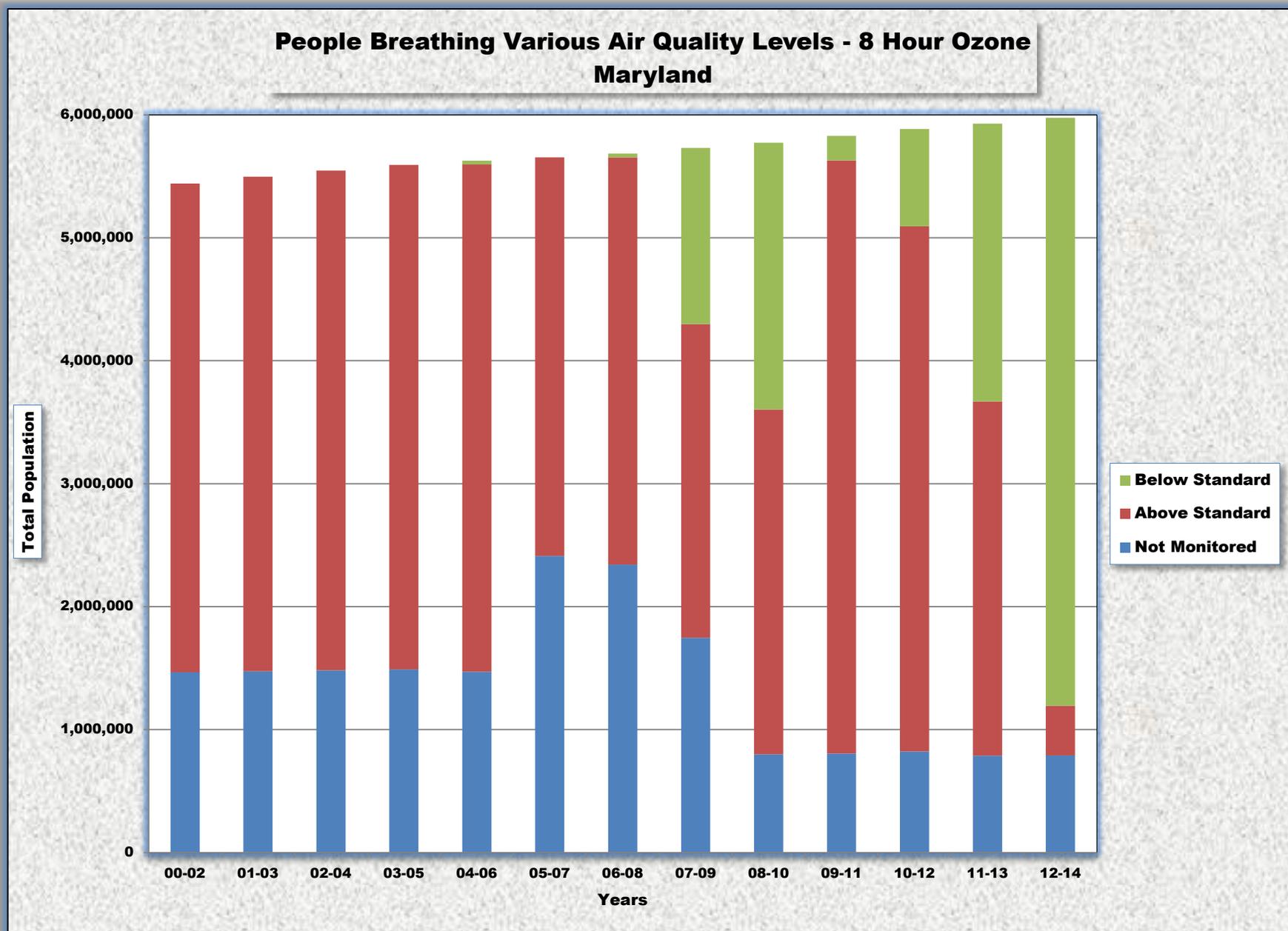


Figure MD-2

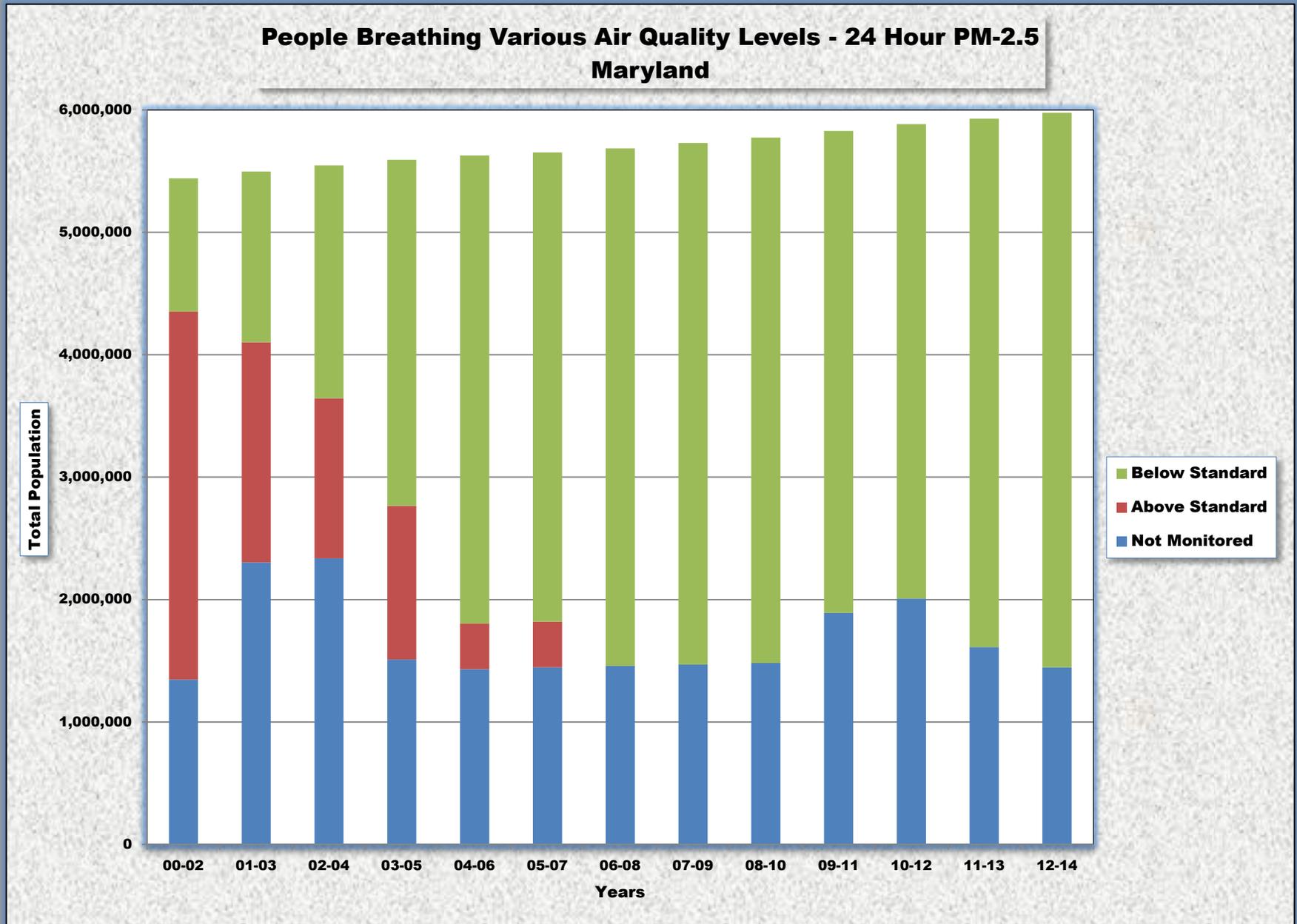
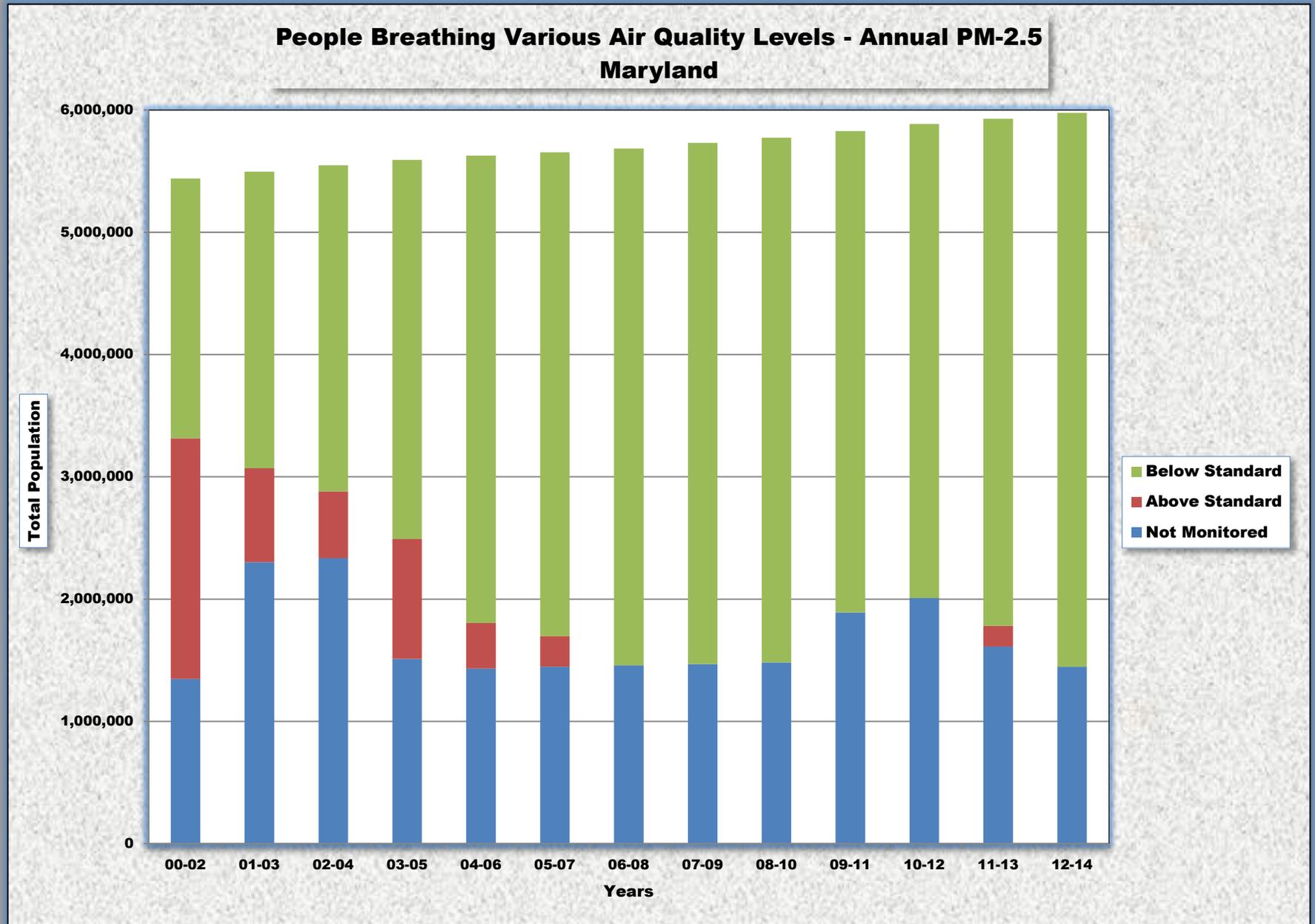


Figure MD-3



MASSACHUSETTS

Ozone

Significant progress has been made in ozone levels in Massachusetts. In the 2000 – 2002 time period, approximately 600 thousand people (9.3%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 6.2 million people (91.3%). The remainder of the population lived in counties where ozone was no monitored. Figure MA-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Massachusetts have generally been better than the standard, except for the first three periods. In the 2000 – 2002 time period, approximately 5.3 million people (82.6%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 4.0 million people (59.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MA-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Massachusetts have historically been better than the standard. In the 2000 – 2002 time period, approximately 5.8 million people (90.1%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this was approximately 4.0 million people (59.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MA-3 shows the distribution of people by year.

Table MA-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Barnstable	214,914	0.069	C	N	ND	--	ND	--	--
Berkshire	128,715	0.067	B	N	18	A	7.3	A	N
Bristol	554,194	0.072	C	N	15	A	6.3	A	N
Dukes	17,356	0.068	C	N	ND	--	ND	--	--
Essex	769,091	0.068	C	Y	15	A	6.2	A	Y
Hampden	468,161	0.070	C	N	18	A	7.1	A	Y
Hampshire	160,939	0.071	C	N	ND	--	ND	--	--
Middlesex	1,570,315	0.067	B	N	ND	--	ND	--	--
Norfolk	692,254	0.070	C	N	ND	--	ND	--	--
Plymouth	507,022	ND	--	--	17	A	6.7	A	N
Suffolk	767,254	0.062	B	Y	18	A	7.7	A	Y
Worcester	813,475	0.067	B	Y	17	A	7.1	A	Y
Subtotal	6,663,690								
Not Monitored	81,718								
Total	6,745,408								

DV = Design Value

ND = No Data

MM = Multiple Monitors

MASSACHUSETTS

**Table MA-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	383,627
B	0	0	0	77,692	343,596	0	702,201	716,214	361,012	221,191	824,324	2,414,905	2,896,132
C	594,744	0	423,146	1,798,168	78,084	693,368	817,332	1,504,925	4,036,650	3,779,259	3,542,087	3,012,020	2,876,909
D	76,731	420,851	1,592,308	1,566,695	3,642,429	2,705,807	3,820,330	3,259,342	1,556,970	0	17,041	0	0
F	3,744,491	3,982,866	2,959,142	2,377,119	1,777,678	2,462,571	556,993	462,777	0	0	0	0	0
Subtotal	4,415,966	4,403,817	4,974,596	5,819,674	5,741,787	5,861,746	5,896,856	5,943,258	5,954,632	5,991,450	4,383,452	5,426,925	6,156,668
NM	2,001,240	2,018,848	1,437,685	583,616	568,297	569,813	572,111	574,355	592,997	596,086	2,262,692	1,265,899	588,740
Total	6,417,206	6,422,565	6,412,281	6,403,290	6,410,084	6,431,559	6,468,967	6,517,613	6,547,629	6,587,536	6,646,144	6,692,824	6,745,408

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	658,702	0	0	545,437	1,184,593	2,495,503	2,933,415	5,070,900	5,404,732	5,440,002	3,952,987	3,978,758	4,007,912
B	3,832,954	0	0	2,422,074	2,334,345	2,652,959	2,401,294	308,518	0	0	0	0	0
C	809,511	2,876,835	1,024,999	854,570	307,605	153,811	0	0	0	0	0	0	0
D	480,520	0	921,369	0	0	0	0	0	0	0	0	0	0
F	0	230,337	153,614	0	0	0	0	0	0	0	0	0	0
Subtotal	5,781,687	3,106,172	2,099,982	3,822,081	3,826,543	3,302,293	5,334,700	5,379,417	5,404,732	5,445,002	3,952,987	3,978,758	4,007,912
NM	635,519	3,315,393	4,312,299	2,581,209	2,583,541	1,129,286	1,134,257	1,138,195	1,142,897	1,142,534	2,693,157	2,714,066	2,737,496
Total	6,417,206	6,422,565	6,412,281	6,403,290	6,410,084	6,431,559	6,468,967	6,517,613	6,547,629	6,587,536	6,646,144	6,692,824	6,745,408

People Breathing Year round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	3,970,654	2,354,025	1,427,914	2,999,700	3,329,144	4,975,121	5,334,710	5,225,159	5,404,732	5,440,002	3,952,987	3,978,758	4,007,912
B	979,845	578,877	499,250	1,431,996	497,399	327,153	0	0	0	0	0	0	0
C	631,186	348,546	172,818	171,650	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	5,781,685	3,281,442	2,099,982	4,603,346	3,826,543	3,302,293	5,334,700	5,225,159	5,404,732	5,445,002	3,952,987	3,978,758	4,007,912
NM	635,521	3,141,123	4,312,299	1,799,944	2,583,541	1,129,285	1,134,257	1,292,454	1,142,897	1,142,534	2,693,157	2,714,066	2,737,496
Total	6,417,206	6,422,565	6,412,281	6,403,290	5,410,084	6,431,559	6,468,967	6,517,613	6,547,629	6,587,536	6,646,144	6,692,824	6,745,408

NM = Not Monitored

Figure MA-1

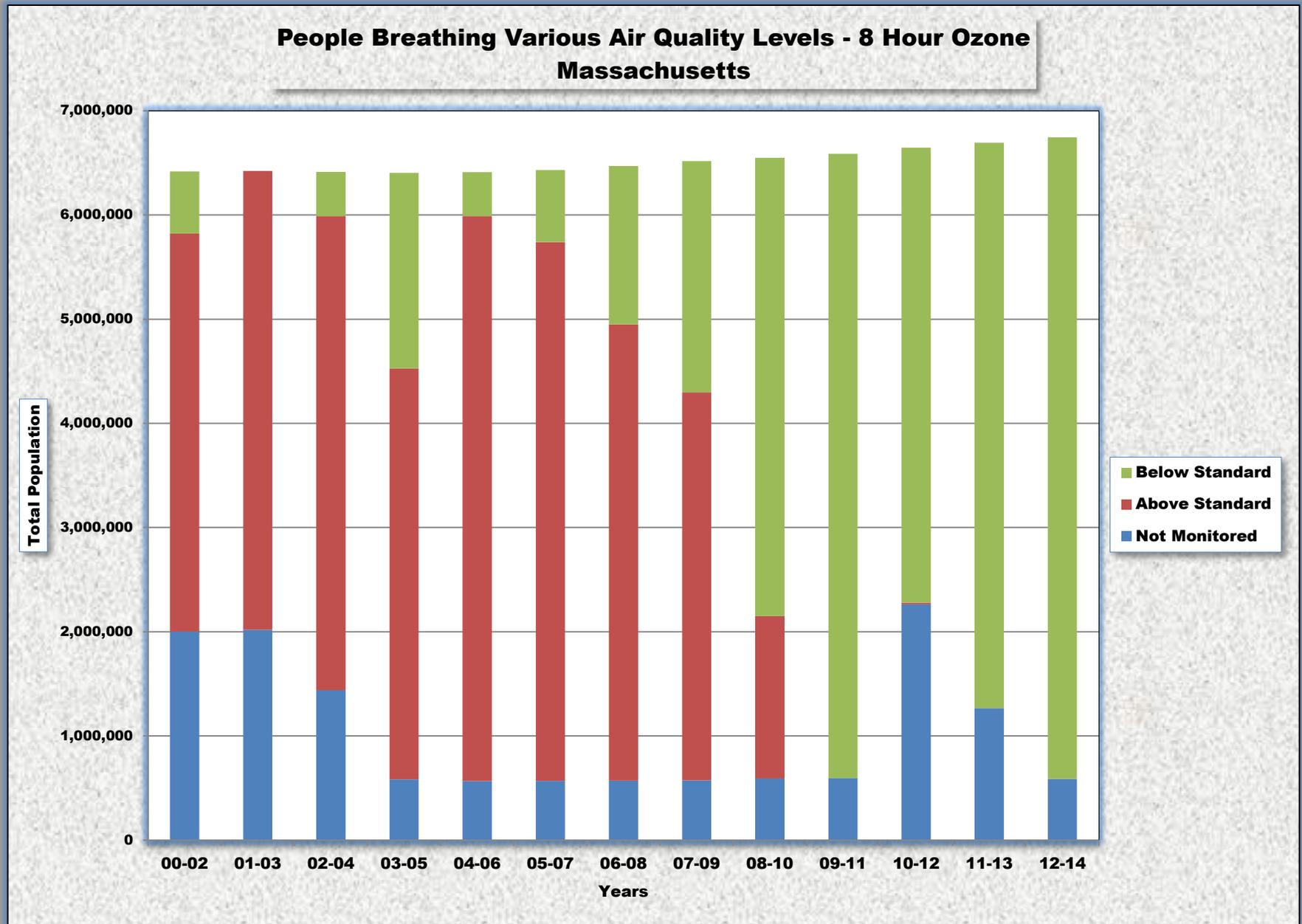


Figure MA-2

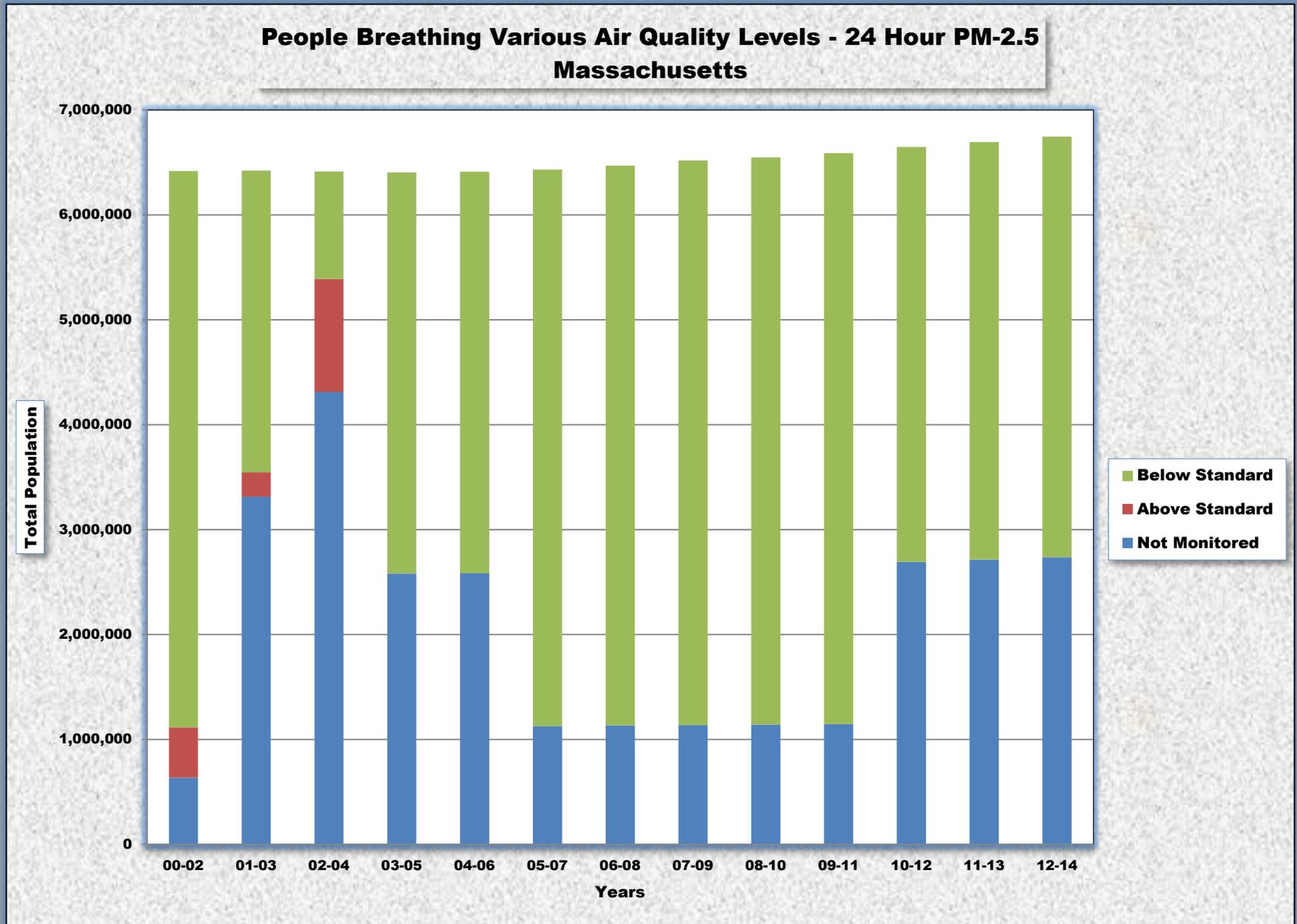
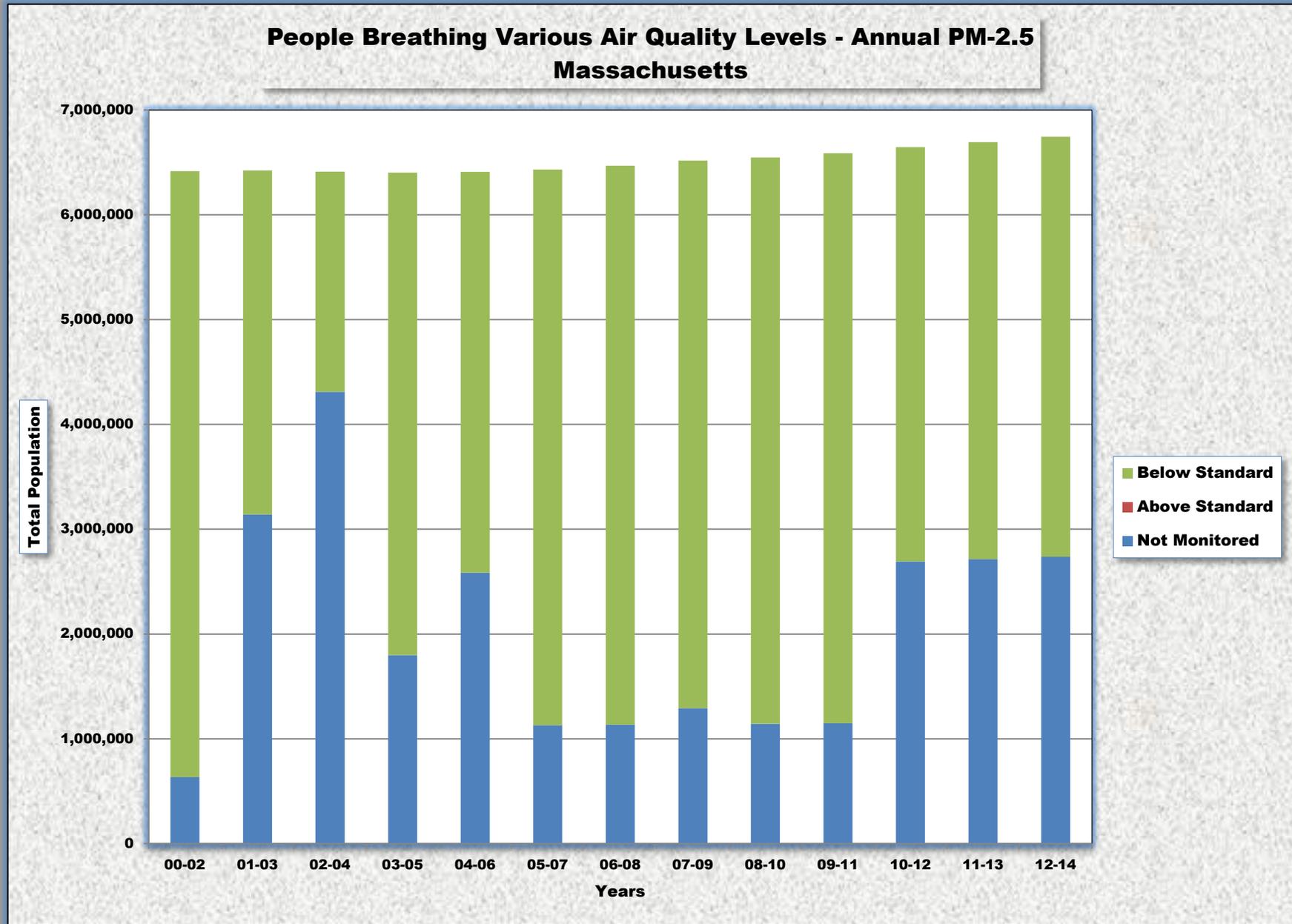


Figure MA-3



MICHIGAN

Ozone

Significant progress has been made in ozone levels in Michigan. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 6.7 million people (67.8%). Figure MI-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Michigan. In the 2000 – 2002 time period, approximately 1.7 million people (16.7%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 6.5 million people (65.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MI-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in Michigan. In the 2000 – 2002 time period, approximately 3.6 million people (36.4%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 6.5 million people (65.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MI-3 shows the distribution of people by year.

MICHIGAN

**Table MI-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Allegan	113,847	0.083	F	N	21	A	8.3	A	N
Bay	106,179	ND	--	--	20	A	7.8	A	N
Benzie	17,519	0.073	C	N	ND	--	ND	--	--
Berrien	155,233	0.079	D	N	20	A	8.4	A	N
Cass	51,608	0.073	C	N	ND	--	ND	--	--
Chippewa	38,321	0.065	B	N	15	A	6.2	A	N
Clinton	77,297	0.069	C	N	ND	--	ND	--	--
Genesee	412,895	0.072	C	Y	21	A	8.1	A	N
Huron	32,065	0.071	C	N	ND	--	ND	--	--
Ingham	284,582	0.070	C	N	21	A	8.3	A	N
Kalamazoo	258,818	0.073	C	N	23	A	9.1	A	N
Kent	629,237	0.070	C	Y	23	A	9.3	A	Y
Lenawee	99,047	0.073	C	N	22	A	8.6	A	N
Macomb	860,112	0.073	C	Y	22	A	8.6	A	N
Manistee	24,420	0.072	C	N	17	A	6.6	A	N
Mason	28,824	0.074	C	N	ND	--	ND	--	--
Missaukee	15,037	0.068	C	N	16	A	5.7	A	N
Muskegon	172,344	0.079	D	N	ND	--	ND	--	--
Oakland	1,237,868	0.071	C	N	22	A	9.1	A	N
Ottawa	276,292	0.075	C	N	ND	--	ND	--	--
St Clair	160,078	0.074	C	N	22	A	9.1	A	N
Schoolcraft	8,171	0.073	C	N	ND	--	ND	--	--
Tuscola	54,000	0.068	C	N	ND	---	ND	--	--
Washtenaw	356,874	0.072	C	Y	22	A	9.2	A	N
Wayne	1,764,804	0.071	C	Y	24	A	9.9	B	Y
Wexford	32,886	0.067	B	N	ND	--	ND	--	--
Subtotal	7,268,358								
Not Monitored	2,641,519								
Total	9,909,877								

DV = Design Value

ND = No Data

MM = Multiple Monitors

MICHIGAN

Table MI-2 People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	1,712,961	90,380	38,917	38,696	71,207
C	0	668,520	0	668,520	4,025,715	15,009	2,353,899	3,603,148	5,277,624	5,292,754	2,458,807	3,280,313	6,649,548
D	2,954,286	5,103,970	1,901,897	5,103,970	2,786,627	2,849,652	4,587,490	3,400,159	0	1,604,657	4,431,594	3,624,917	327,577
F	4,095,804	1,289,445	5,180,651	1,289,445	284,866	3,254,382	111,589	0	0	0	112,038	112,531	113,847
Subtotal	7,050,090	7,061,935	7,082,548	7,061,935	7,091,208	6,119,043	7,052,978	7,003,307	6,990,585	6,987,791	7,041,357	7,056,457	7,162,179
NM	2,965,620	2,979,217	2,972,767	2,989,202	2,938,873	3,882,241	2,893,911	2,898,284	2,893,055	2,888,396	2,842,003	2,839,165	2,747,698
Total	10,015,710	10,041,152	10,055,315	10,051,137	10,036,081	10,001,284	9,946,889	9,901,591	9,883,640	9,876,187	9,883,360	9,895,622	9,909,877

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	38,789	247,292	54,089	15,043	15,009	729,425	1,354,510	3,877,148	6,252,532	6,706,425	6,777,127	6,517,352
B	369,927	318,314	1,165,026	207,368	685,342	683,540	1,474,538	3,268,590	2,503,267	514,885	398,303	0	0
C	1,299,228	1,474,380	3,379,902	2,602,420	393,260	393,133	932,529	1,889,966	227,573	0	0	0	0
D	2,420,972	2,665,611	434,521	1,325,893	1,712,205	913,821	310,843	0	0	0	0	0	0
F	1,836,172	1,582,714	850,213	3,095,141	1,312,954	1,485,905	0	0	0	0	0	0	0
Subtotal	5,935,299	6,059,788	6,076,954	7,284,911	4,118,804	3,500,408	3,447,335	6,513,066	6,607,988	6,767,417	7,104,728	6,777,127	6,517,352
NM	4,080,411	3,981,364	3,978,361	2,766,226	5,917,277	6,500,876	6,499,554	3,388,525	3,275,652	3,108,770	2,778,632	3,118,495	3,392,525
Total	10,015,710	10,041,152	10,055,315	10,051,137	10,036,081	10,001,284	9,946,889	9,901,591	9,883,640	9,876,187	9,883,360	9,895,622	9,909,877

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	209,323	357,103	1,131,792	1,145,248	567,384	564,545	841,014	5,594,298	6,380,415	6,767,417	7,104,728	5,667,581	5,634,950
B	1,855,271	2,117,351	2,640,504	2,484,447	1,121,473	527,137	1,984,635	689,076	227,573	0	0	887,637	661,802
C	1,783,597	2,022,620	1,171,041	2,255,028	1,656,971	1,639,329	310,843	229,692	0	0	0	221,909	220,600
D	1,065,542	722,934	850,213	1,120,150	386,498	380,198	310,843	0	0	0	0	0	0
F	1,012,567	859,780	283,404	280,038	386,498	380,198	0	0	0	0	0	0	0
Subtotal	5,926,300	6,079,788	6,076,934	7,284,911	4,118,804	3,491,407	3,447,335	6,513,166	6,607,988	6,767,417	7,104,728	6,777,127	6,517,352
NM	4,089,410	3,961,364	3,978,381	2,766,226	5,917,277	6,509,877	6,499,554	3,388,525	3,275,652	3,108,770	2,778,632	3,118,495	3,392,525
Total	10,015,710	10,041,152	10,055,315	10,051,137	10,036,081	10,001,284	9,946,889	9,901,691	9,883,640	9,876,187	9,883,360	9,895,622	9,909,877

NM = Not Monitored

Figure MI-1

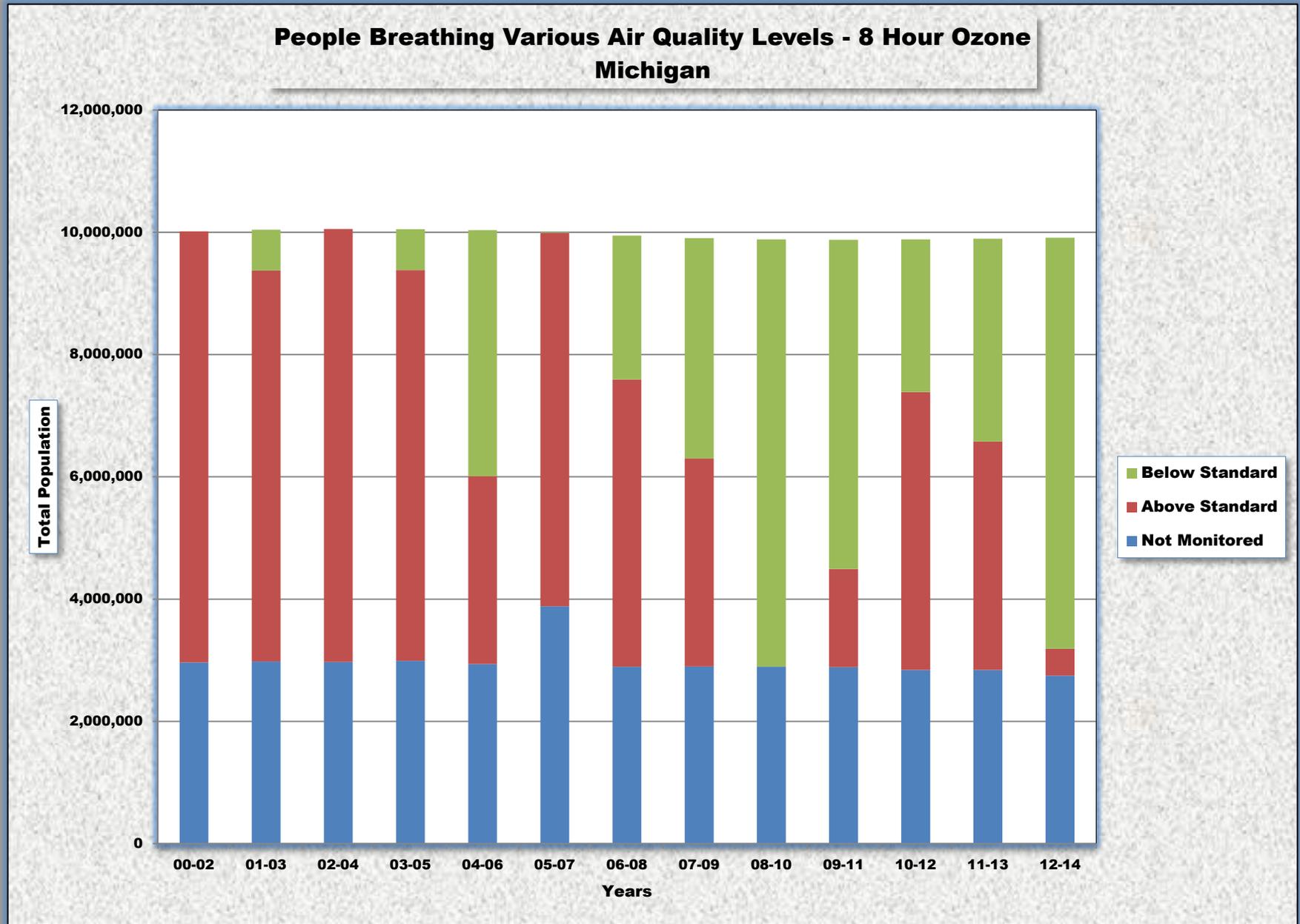


Figure MI-2

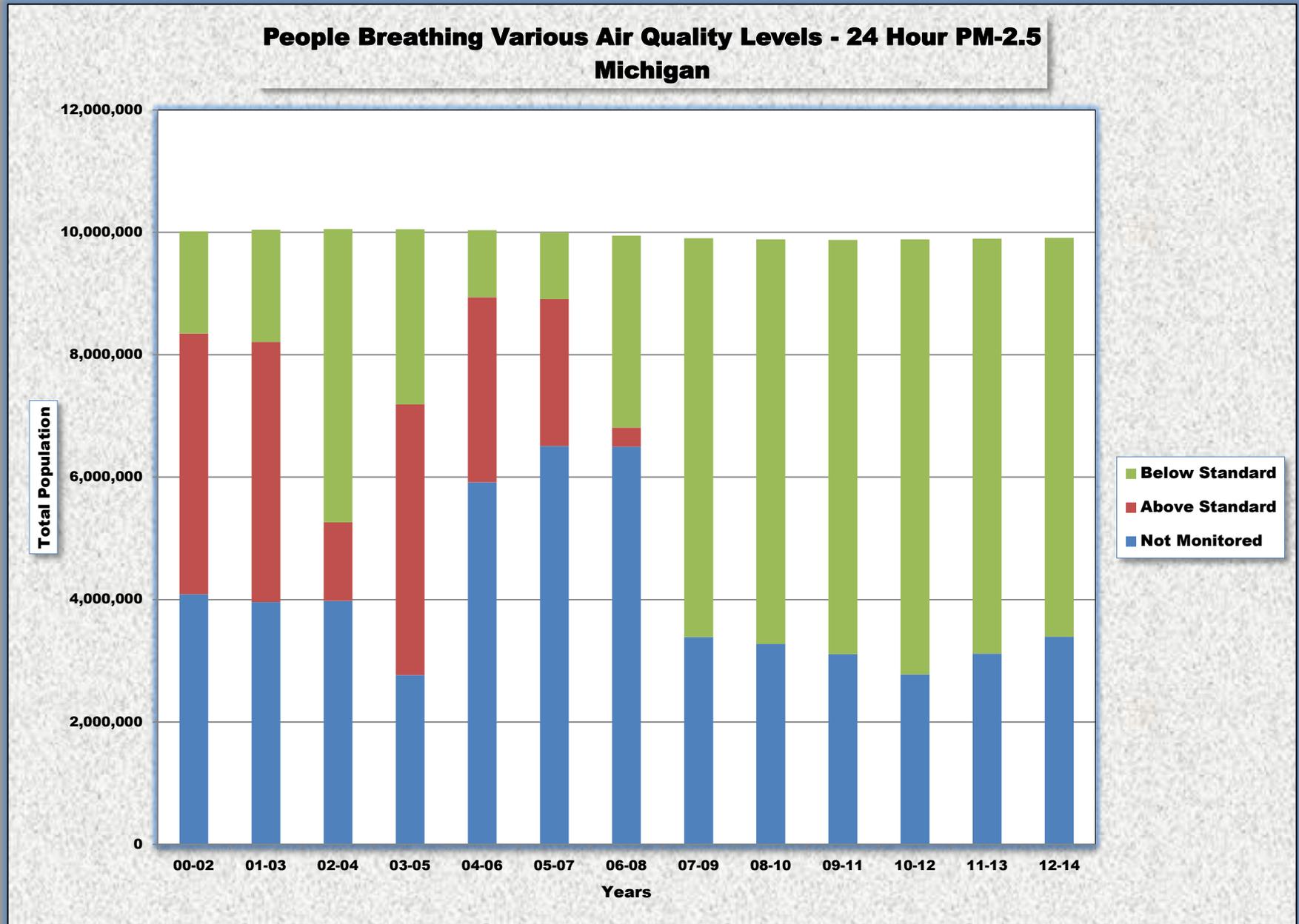
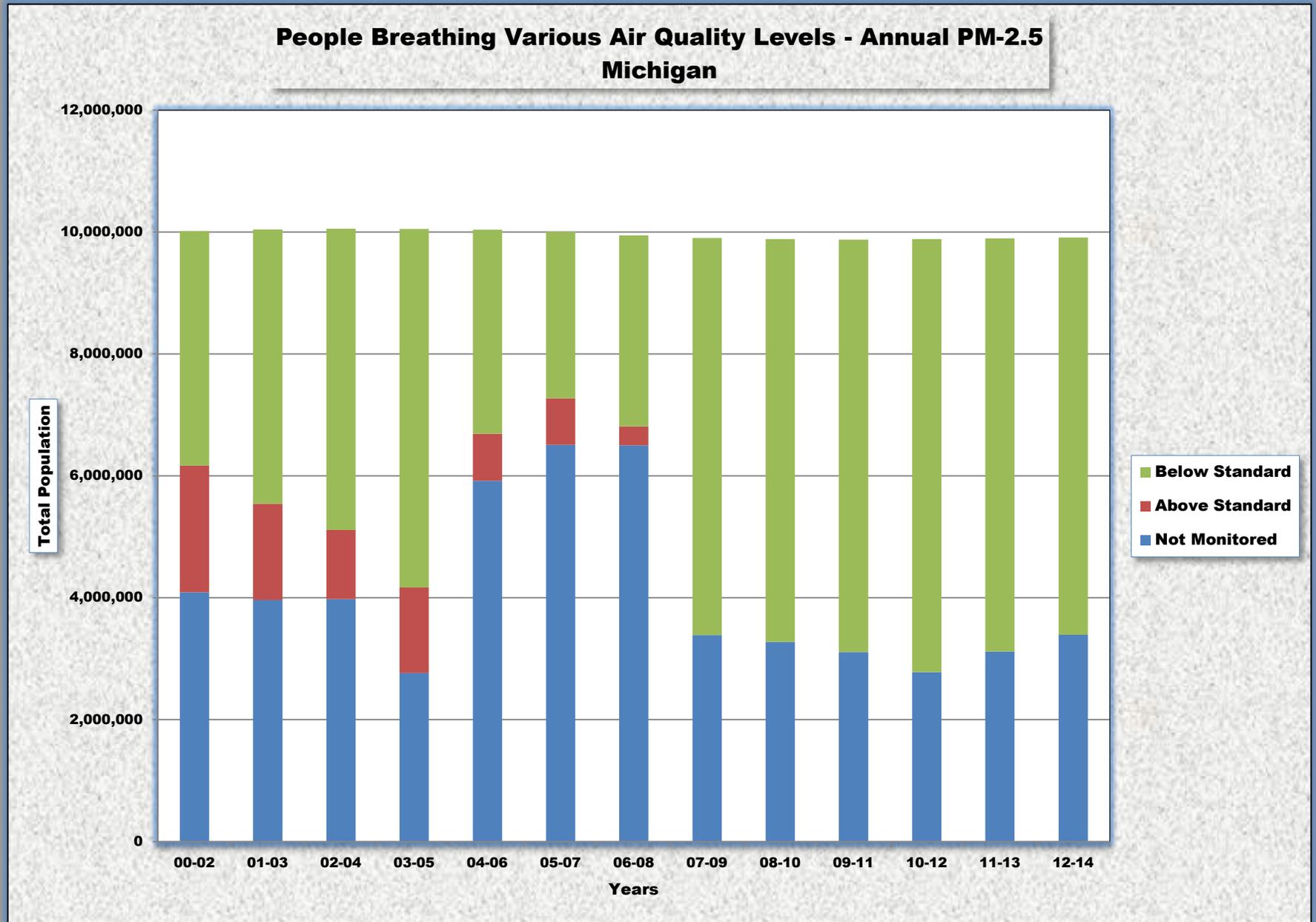


Figure MI-3



MINNESOTA

Ozone

Ozone levels in Minnesota have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.1 million people (21.9%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 1.6 million people (29.4%). The remainder of the population lived in counties where ozone was not measured. Figure MN-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Minnesota have generally been better than the standard. In the 2000 – 2002 time period, approximately 2.3 million people (46.9%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 3.4 million people (62.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MN-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Minnesota have historically been better than the standard. In the 2000 – 2002 time period, approximately 2.4 million people (47.0%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 3.4 million people (62.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MN-3 shows the distribution of people by year.

Table MN-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Anoka	341,864	0.065	B	Y	21	A	7.1	A	N
Becker	33,259	0.062	B	N	ND	--	ND	--	--
Carlton	35,571	0.057	A	N	ND	--	ND	--	--
Crow Wing	63,265	0.059	A	N	ND	--	ND	--	--
Dakota	412,529	ND	--	--	22	A	8.8	A	N
Goodhue	46,423	0.063	B	N	ND	--	ND	--	--
Hennepin	1,212,064	ND	--	--	22	A	8.0	A	Y
Lake	10,680	0.058	A	N	ND	--	ND	--	--
Lyon	25,665	0.065	B	N	19	A	6.8	A	N
Mille Lacs	25,884	0.059	A	N	ND	--	ND	--	--
Olmsted	150,287	0.065	B	N	19	A	7.2	A	N
Ramsey	532,655	ND	--	--	22	A	8.9	A	Y
St. Louis	200,949	0.055	A	Y	18	A	6.3	A	Y
Scott	139,672	0.065	B	N	21	A	8.6	A	N
Stearns	152,912	0.062	B	N	20	A	7.0	A	N
Washington	249,283	0.062	B	N	22	A	8.5	A	Y
Wright	129,918	0.063	B	N	ND	--	ND	--	--
Subtotal	3,762,880								
Not Monitored	1,694,293								
Total	5,457,173								

DV – Design Value

ND - No Data

MM – Multiple Monitors

MINNESOTA

Table MN-2

People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	11,100	0	227,973	198,903	199,745	380,301	420,335	356,507	256,326	246,777	336,349
B	579,899	211,238	824,163	637,701	776,813	492,187	770,045	1,095,159	1,076,539	1,188,290	1,191,234	1,100,777	1,269,283
C	518,883	898,037	532,580	675,880	276,987	963,685	354,859	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,098,782	1,109,275	1,367,843	1,313,591	1,281,771	1,654,775	1,324,649	1,475,460	1,496,874	1,544,797	1,337,550	1,347,554	1,605,632
NM	3,920,153	3,944,297	3,719,870	3,806,007	3,881,782	3,552,428	3,922,369	3,805,743	3,807,051	3,800,064	4,041,579	4,072,826	3,851,541
Total	5,018,935	5,053,572	5,087,713	5,119,598	5,163,553	5,207,203	5,247,018	5,281,203	5,303,925	5,344,861	5,379,139	5,420,380	5,457,173

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	224,099	1,939,459	2,441,576	1,803,429	2,168,851	2,451,470	2,561,332	504,551	350,868	351,598	2,560,221	3,138,112	3,417,880
B	1,873,405	659,333	167,035	838,998	352,304	0	0	1,940,443	1,825,153	1,648,762	520,152	0	0
C	255,291	0	0	0	0	0	0	253,295	0	514,696	0	0	0
D	0	0	0	0	0	0	0	0	508,640	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,352,795	2,598,792	2,617,611	2,642,427	2,221,153	2,451,470	2,564,332	2,698,289	2,484,661	2,715,256	3,082,373	3,138,114	3,417,880
NM	2,666,140	2,454,780	2,470,102	2,477,171	2,942,400	2,755,733	2,685,686	2,582,914	2,819,264	2,629,605	2,296,766	2,282,268	2,039,293
Total	5,018,935	5,053,572	5,087,713	5,119,598	5,163,553	5,207,203	5,247,018	5,281,203	5,303,925	5,344,861	5,379,139	5,420,380	5,457,173

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,968,372	2,345,813	2,508,611	2,642,427	2,521,155	2,451,470	2,561,332	2,698,289	2,684,661	2,715,056	3,080,373	3,138,112	3,240,328
B	384,423	252,979	0	0	0	0	0	0	0	0	0	0	177,552
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,352,795	2,598,792	2,608,611	2,642,427	2,521,147	2,451,470	2,561,332	2,698,289	2,684,661	2,715,056	3,080,353	3,138,112	3,417,880
NM	2,666,140	2,454,780	2,479,102	2,477,171	2,642,406	2,755,733	2,685,686	2,582,914	2,619,264	2,629,805	2,298,786	2,282,268	2,039,293
Total	5,018,935	5,053,572	5,087,713	5,119,598	5,163,553	5,207,203	5,247,018	5,281,203	5,303,925	5,344,861	5,379,139	5,420,380	5,457,173

NM = Not Monitored

Figure MN-1

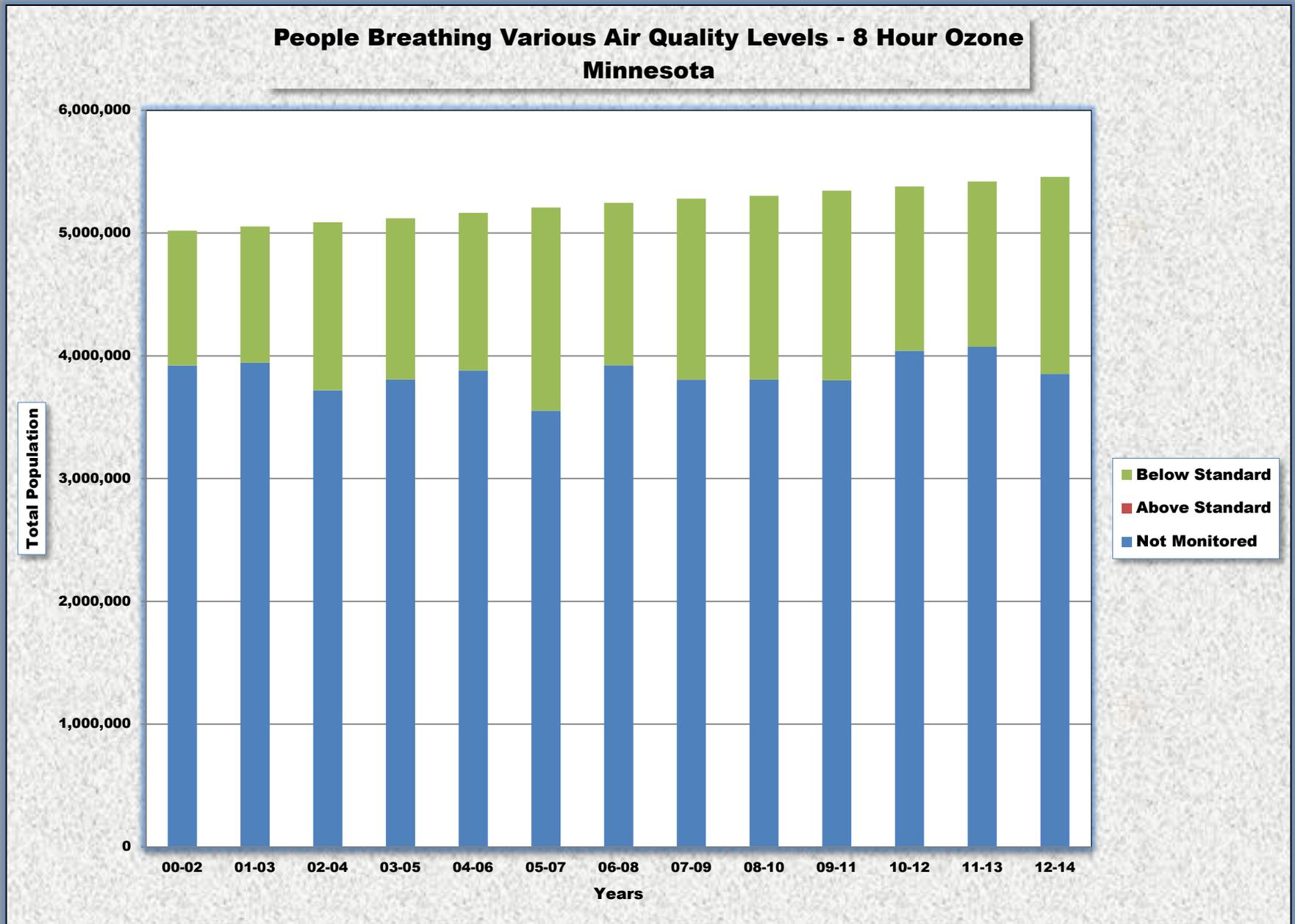


Figure MN-2

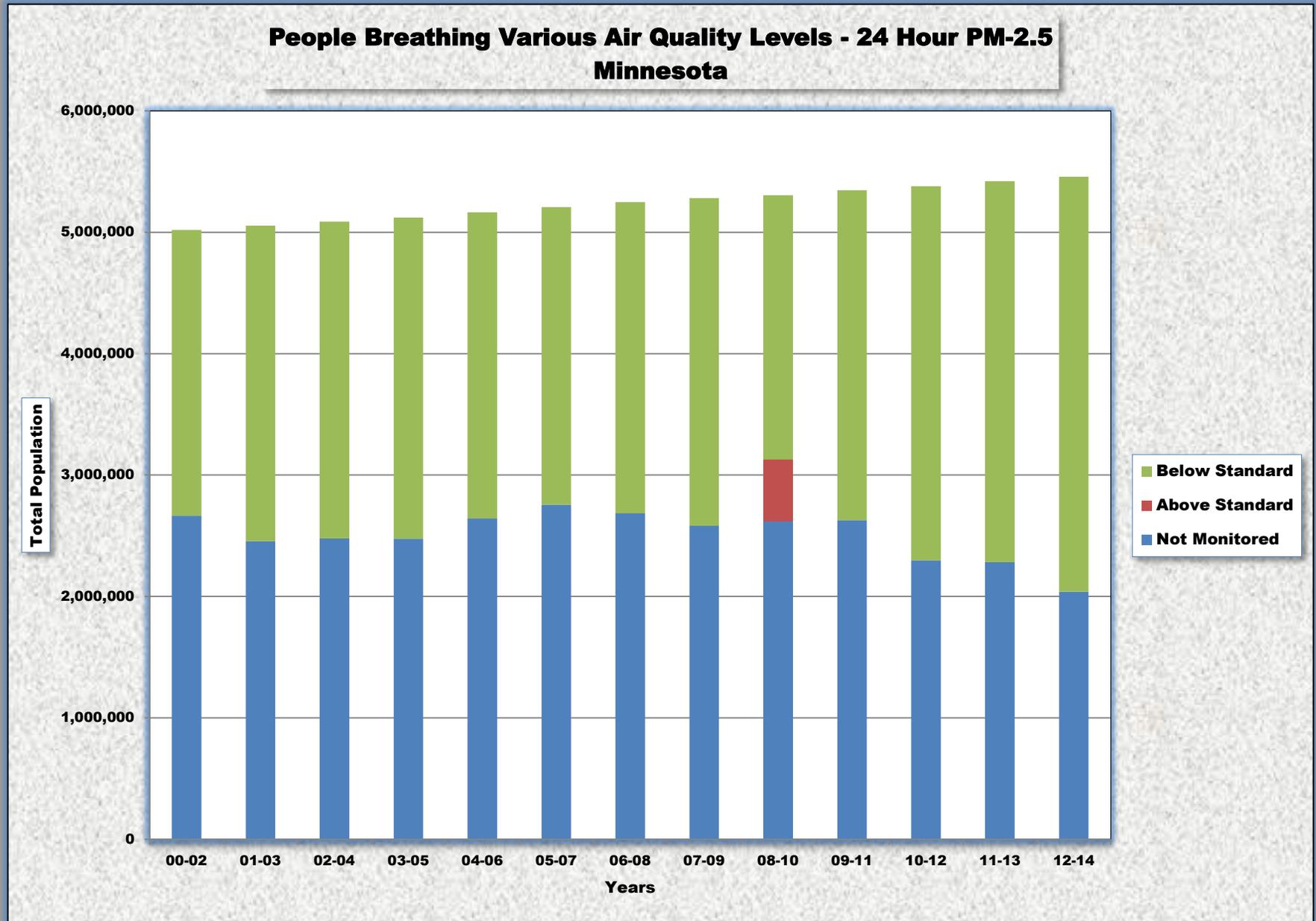
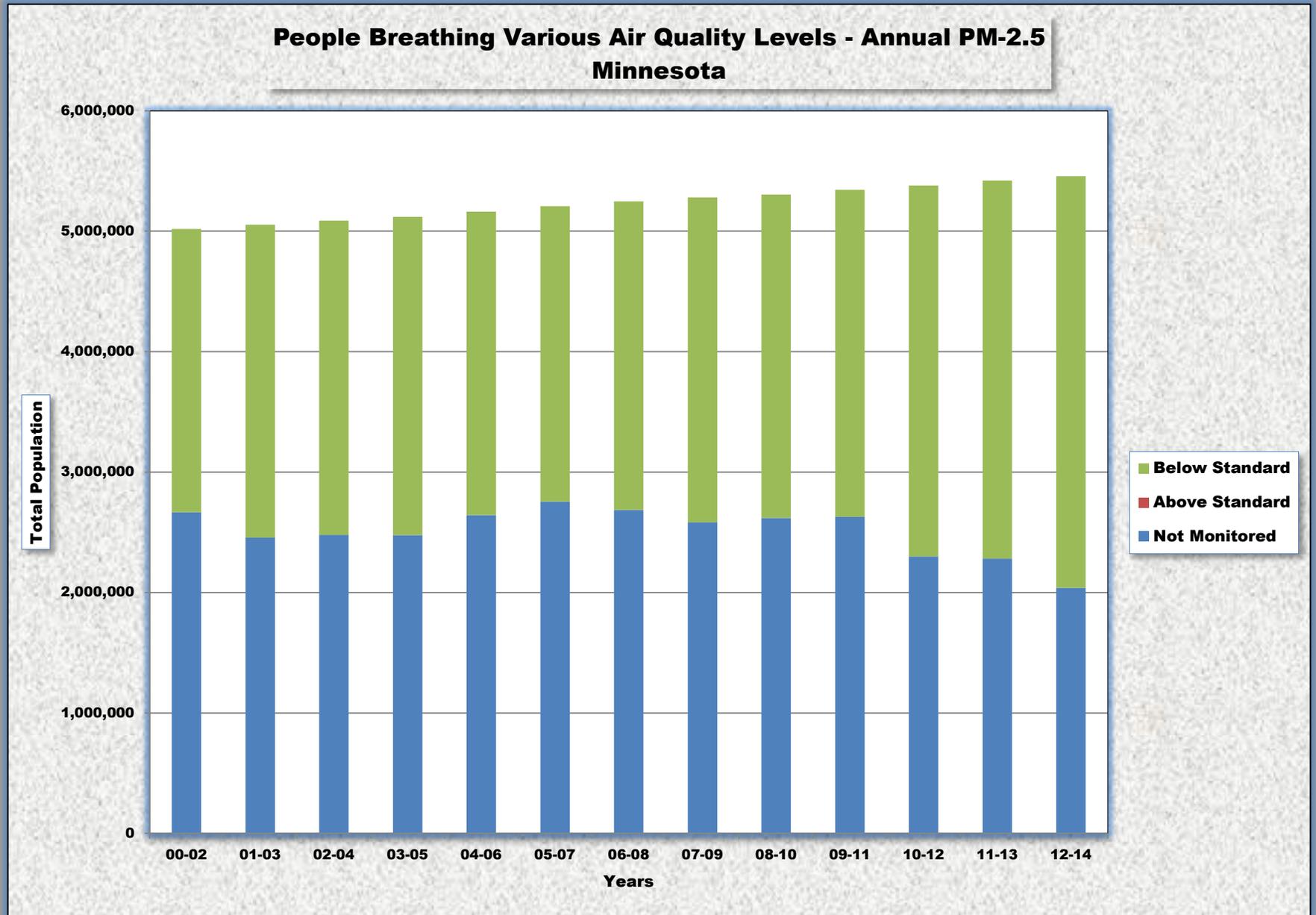


Figure MN-3



MISSISSIPPI

Ozone

Significant progress has been made in ozone levels in Mississippi. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 1.0 million people (33.8%). The remainder of the population lived in counties where ozone was not measured. Figure MS-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Mississippi have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.4 million people (47.6%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 0.9 million people (30.0%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MS-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Mississippi have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.4 million people (47.6%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had decreased to approximately 0.9 million people (30.0%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MS-3 shows the distribution of people by year.

Table MS-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg.24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Bolivar	33,768	0.067	B	N	ND	--	ND	--	--
Desoto	170,913	0.069	C	N	20	A	9.6	B	N
Forrest	76,330	ND	--	--	21	A	10.5	B	N
Grenada	21,666	ND	--	--	20	A	9.0	A	N
Hancock	45,949	0.066	B	N	19	A	8.8	A	N
Harrison	199,058	0.069	C	N	20	A	9.3	A	N
Hinds	243,729	0.061	B	N	20	A	9.9	B	N
Jackson	41,137	0.071	C	N	20	A	9.2	A	N
Lauderdale	79,739	0.060	B	N	ND	--	ND	--	--
Lee	85,246	0.062	B	N	ND	--	ND	--	--
Yalobusha	12,276	0.062	B	N	ND	--	ND	--	--
Subtotal	1,009,811								
Not Monitored	1,984,268								
Total	2,994,079								

DV = Design Value

ND = No Data

MM = Multiple Monitors

MISSISSIPPI

**Table MS-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	357,054	440,753	457,464	210,517	468,432	500,707
C	0	492,501	689,901	509,243	476,058	359,996	473,522	256,062	335,065	528,765	783,108	539,239	511,108
D	950,707	606,605	245,770	337,438	132,717	250,450	476,740	344,636	187,105	0	0	0	0
F	118,603	0	130,767	98,892	319,669	329,742	0	0	0	0	0	0	0
Subtotal	1,069,310	1,099,106	1,066,438	945,573	928,444	940,188	950,262	957,752	962,923	986,229	993,625	1,007,671	1,011,815
NM	1,789,371	1,769,206	1,822,572	1,960,370	1,976,534	1,988,162	1,997,544	2,001,022	2,004,374	1,992,283	1,991,301	1,983,536	1,982,264
Total	2,858,681	2,868,312	2,889,010	2,905,943	2,904,978	2,928,350	2,947,806	2,958,774	2,967,297	2,978,512	2,984,926	2,991,207	2,994,079

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	370,891	498,744	589,691	32,674	0	179,054	927,921	1,181,757	1,127,524	1,118,081	1,026,943	961,287	898,782
B	622,629	820,888	846,236	1,237,997	955,089	754,630	223,015	0	0	0	0	0	0
C	365,966	97,946	0	0	139,080	176,676	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,359,486	1,417,578	1,435,927	1,271,671	1,094,169	1,110,360	1,150,936	1,181,757	1,127,524	1,118,081	1,026,943	961,287	898,782
NM	1,499,195	1,450,734	1,453,083	1,635,272	1,810,809	1,817,990	1,796,870	1,777,017	1,839,773	1,860,431	1,957,983	2,029,920	2,095,297
Total	2,858,681	2,868,312	2,889,010	2,906,943	2,904,978	2,928,350	2,947,806	2,958,774	2,967,297	2,978,512	2,984,926	2,991,207	2,994,079

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	270,933	482,872	539,851	32,674	0	347,971	544,401	959,176	984,829	1,118,081	1,026,943	961,287	407,810
B	444,771	889,793	830,780	1,172,126	954,620	621,572	465,021	222,581	142,695	0	0	0	490,972
C	643,781	64,913	65,296	65,871	139,549	140,817	141,514	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,359,485	1,417,578	1,435,927	1,271,671	1,094,169	1,110,360	1,150,936	1,181,757	1,127,524	1,118,081	1,026,941	961,287	898,782
NM	1,499,196	1,450,734	1,453,083	1,635,272	1,810,809	1,817,990	1,796,870	1,777,017	1,839,773	1,860,431	1,957,983	2,029,920	2,095,297
Total	2,858,681	2,868,312	2,889,010	2,906,943	2,904,978	2,928,350	2,947,806	2,958,774	2,967,297	2,978,512	2,984,926	2,991,207	2,994,079

NM = Not Monitored

Figure MS-1

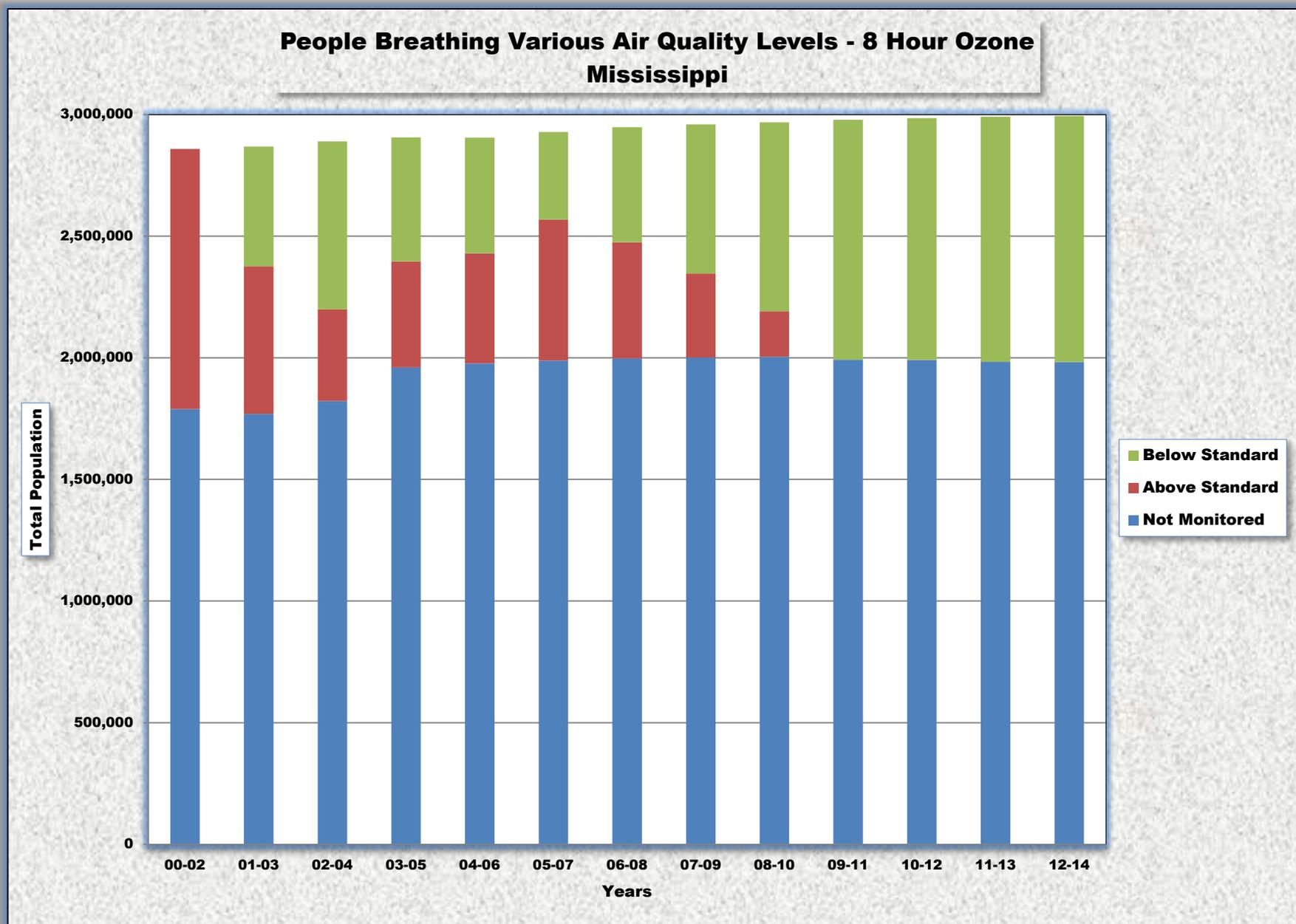


Figure MS-2

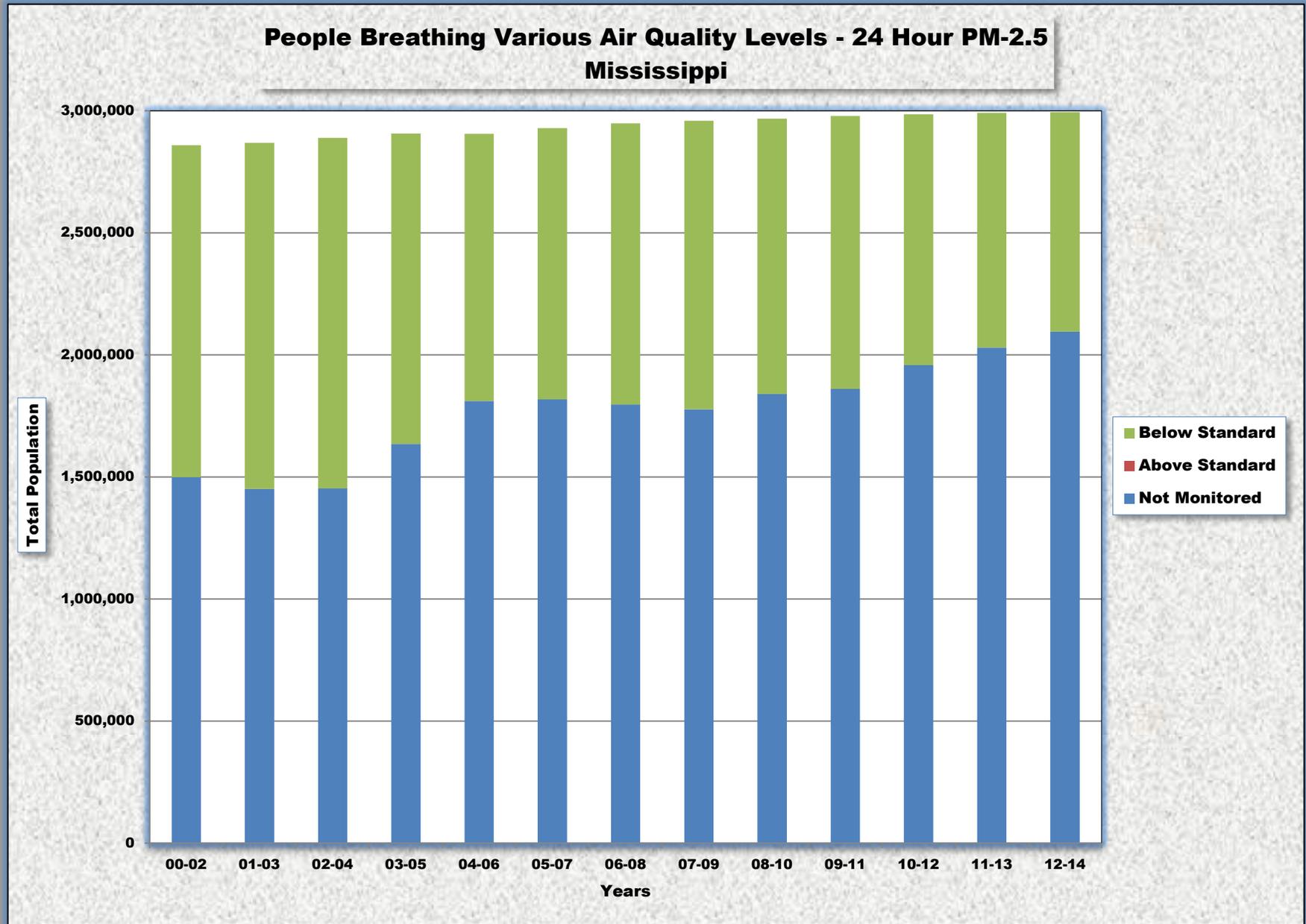
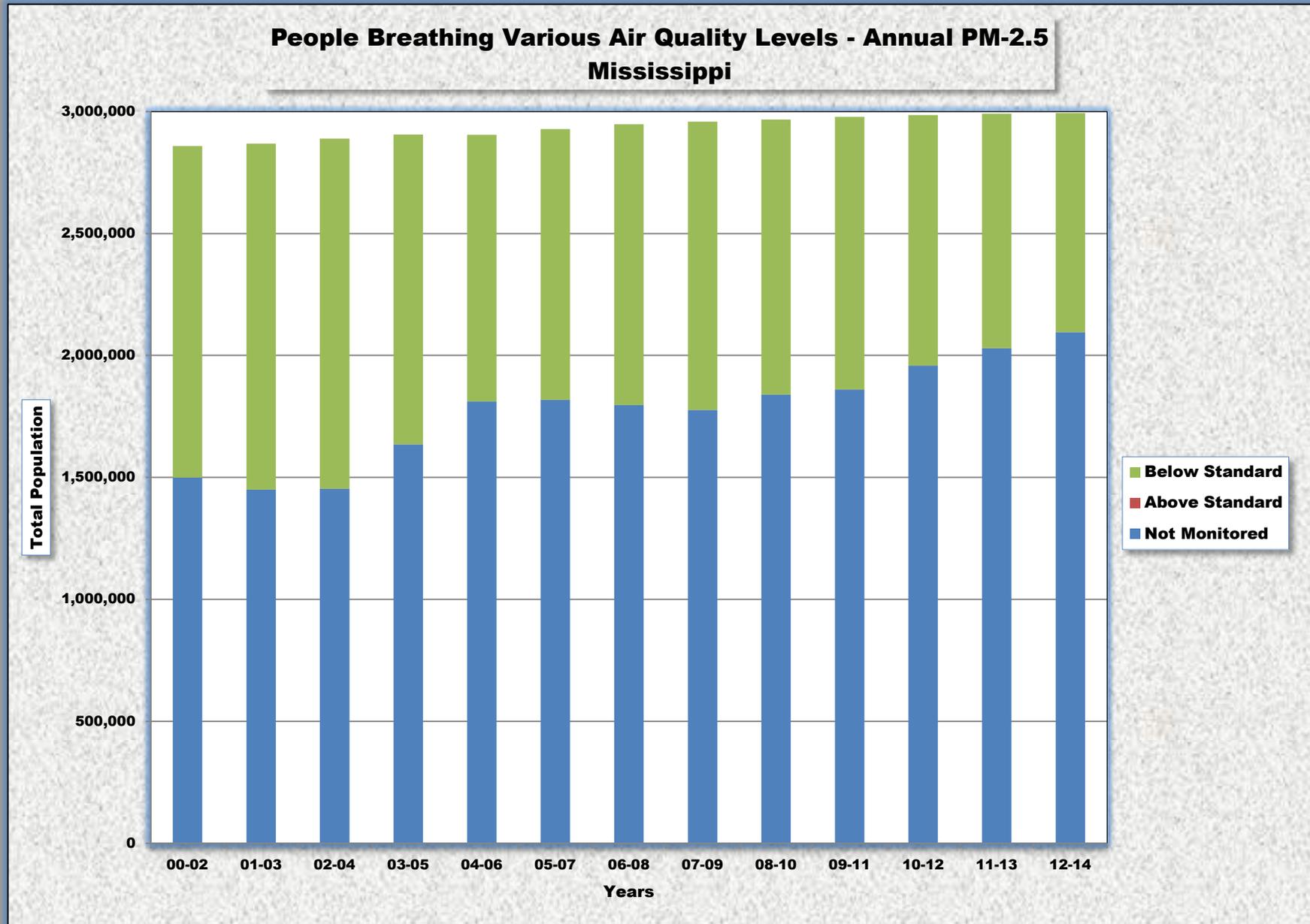


Figure MS-3



MISSOURI

Ozone

Significant progress has been made in ozone levels in Missouri. In the 2000 – 2002 time period, approximately 0.2 million people (4.3%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 2.4 million people (39.5%). Figure MO-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Missouri have generally been better than the standard except for 2000 - 2003. In the 2000 – 2002 time period, approximately 3 million people (52.4%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 1.9 million people (32.1%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MO-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Missouri have generally been better than the standard except for 2000 - 2002. In the 2000 – 2002 time period, approximately 2.8 million people (48.4%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this was approximately 1.9 million people (32.1%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MO-3 shows the distribution of people by year.

Table MO-1
2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Andrew	17,379	0.068	C	N	ND	--	ND	--	--
Boone	172,717	0.068	C	N	ND	--	ND	--	--
Buchanan	89,486	ND	--	--	24	A	10.9	C	N
Callaway	44,750	0.066	B	N	ND	--	ND	--	--
Cass	100,889	0.069	C	N	22	A	9.9	B	N
Cedar	13,952	0.070	C	N	19	A	8.1	A	N
Clay	233,682	0.073	C	Y	20	A	8.9	A	N
Clinton	20,299	0.073	C	N	ND	--	ND	--	--
Greene	285,865	0.066	B	Y	22	A	9.3	A	N
Jackson	683,191	ND	--	--	21	A	10.1	B	N
Jasper	117,543	0.072	C	N	ND	--	ND	--	--
Jefferson	222,716	0.075	C	N	23	A	10.0	B	N
Lincoln	54,249	0.075	C	N	ND	--	ND	--	--
Monroe	8,707	0.064	B	N	ND	--	ND	--	--
Perry	19,202	0.071	C	N	ND	--	ND	--	--
St Charles	379,493	0.077	D	Y	ND	--	ND	--	--
St Genevieve	17,914	0.072	C	N	ND	--	ND	--	--
St Louis	1,001,876	0.074	C	N	ND	--	ND	--	--
Taney	54,230	0.064	B	N	ND	--	ND	--	--
St Louis City	317,419	0.073	C	N	25	A	10.9	C	Y
Subtotal	3,855,559								
Not Monitored	2,208,030								
Total	6,063,589								

DV = Design Value

ND = No Data

MM = Multiple Monitors

MISSOURI

**Table MO-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	121,813	759,364	1,095,393	0	0	205,869
C	235,730	360,943	518,637	359,011	399,660	9,216	392,273	1,309,903	1,805,102	1,667,256	1,204,676	1,234,922	2,186,328
D	427,114	287,564	921,069	1,590,055	1,711,475	467,944	1,816,808	968,355	180,243	37,985	1,648,648	1,334,609	690,685
F	1,838,293	1,866,136	1,089,911	653,837	406,742	2,108,302	175,590	0	0	0	184,333	0	0
Subtotal	2,501,137	2,514,643	2,529,617	2,602,903	2,517,877	2,585,462	2,384,670	2,400,071	2,744,709	2,800,634	3,037,657	2,569,331	3,082,882
NM	3,173,688	3,194,760	3,218,124	3,187,397	3,324,827	3,302,150	3,539,246	3,561,017	3,244,218	3,210,054	2,984,331	3,474,640	2,980,707
Total	5,674,825	5,709,403	5,747,741	5,790,300	5,842,704	5,887,612	5,923,916	5,961,088	5,988,927	6,010,688	6,021,988	6,044,171	6,063,589

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	146,034	13,795	367,216	0	533,772	98,845	1,337,882	681,750	488,037	1,009,271	2,557,948	1,219,808	1,947,200
B	1,152,037	1,392,533	1,210,429	1,381,345	1,887,720	1,229,490	1,902,060	318,842	106,431	0	0	0	0
C	1,674,079	1,864,732	749,076	1,886,321	871,188	1,895,984	0	0	0	0	0	0	0
D	0	311,405	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,972,150	3,082,645	2,326,721	3,267,666	3,292,580	3,222,319	3,244,942	1,000,592	594,468	1,009,271	2,657,948	1,219,811	1,947,200
NM	2,702,675	2,626,758	3,421,020	2,522,634	2,550,024	2,665,293	2,683,974	4,960,496	5,394,459	5,001,417	3,464,040	4,824,363	4,116,389
Total	5,674,825	5,709,403	5,747,741	5,790,300	5,842,704	5,887,612	5,928,916	5,961,088	5,988,927	6,010,688	6,021,988	6,044,171	6,063,589

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	155,293	111,269	465,575	722,753	1,070,410	575,600	1,249,565	681,750	275,174	690,308	1,457,572	0	533,499
B	706,711	2,199,227	1,010,640	1,662,701	1,689,034	2,113,812	1,884,392	239,132	319,294	318,983	100,376	901,392	1,202,088
C	1,884,508	688,426	850,507	882,212	533,236	532,907	105,985	79,711	0	0	0	318,416	211,613
D	225,638	83,723	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,972,150	3,082,645	2,326,722	4,267,666	3,292,580	3,222,319	3,244,942	1,000,593	594,468	1,009,271	2,557,948	1,219,811	1,947,200
NM	2,702,675	2,626,758	3,421,019	2,522,634	2,550,024	2,665,293	2,683,974	4,960,495	5,394,459	5,001,417	3,464,040	4,824,363	4,116,389
Total	5,674,825	5,709,403	5,747,741	6,790,300	5,842,704	5,887,612	5,928,916	5,961,088	5,988,927	6,010,688	6,021,988	6,044,171	6,063,589

NM = Not Monitored

Figure MO-1

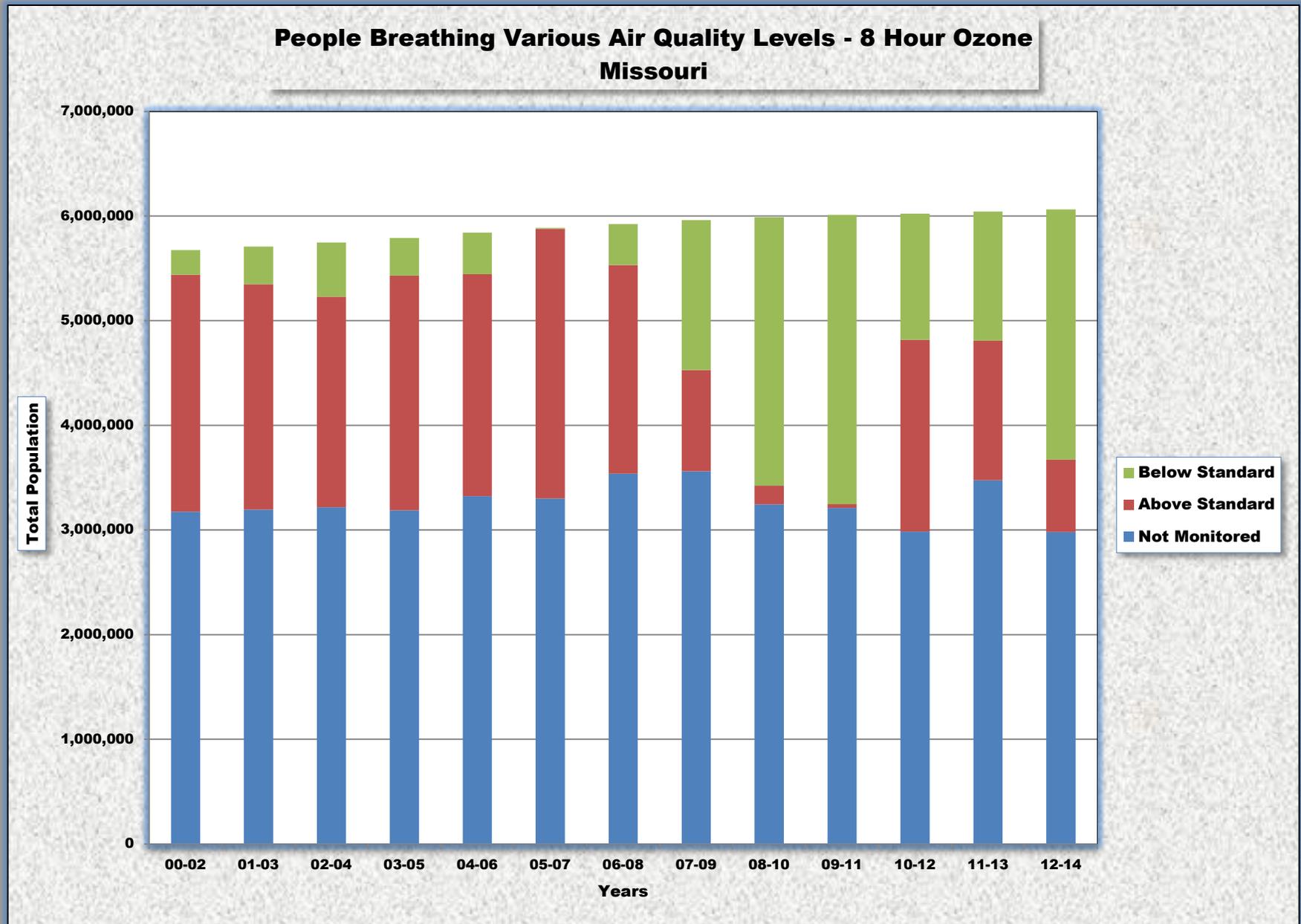


Figure MO-2

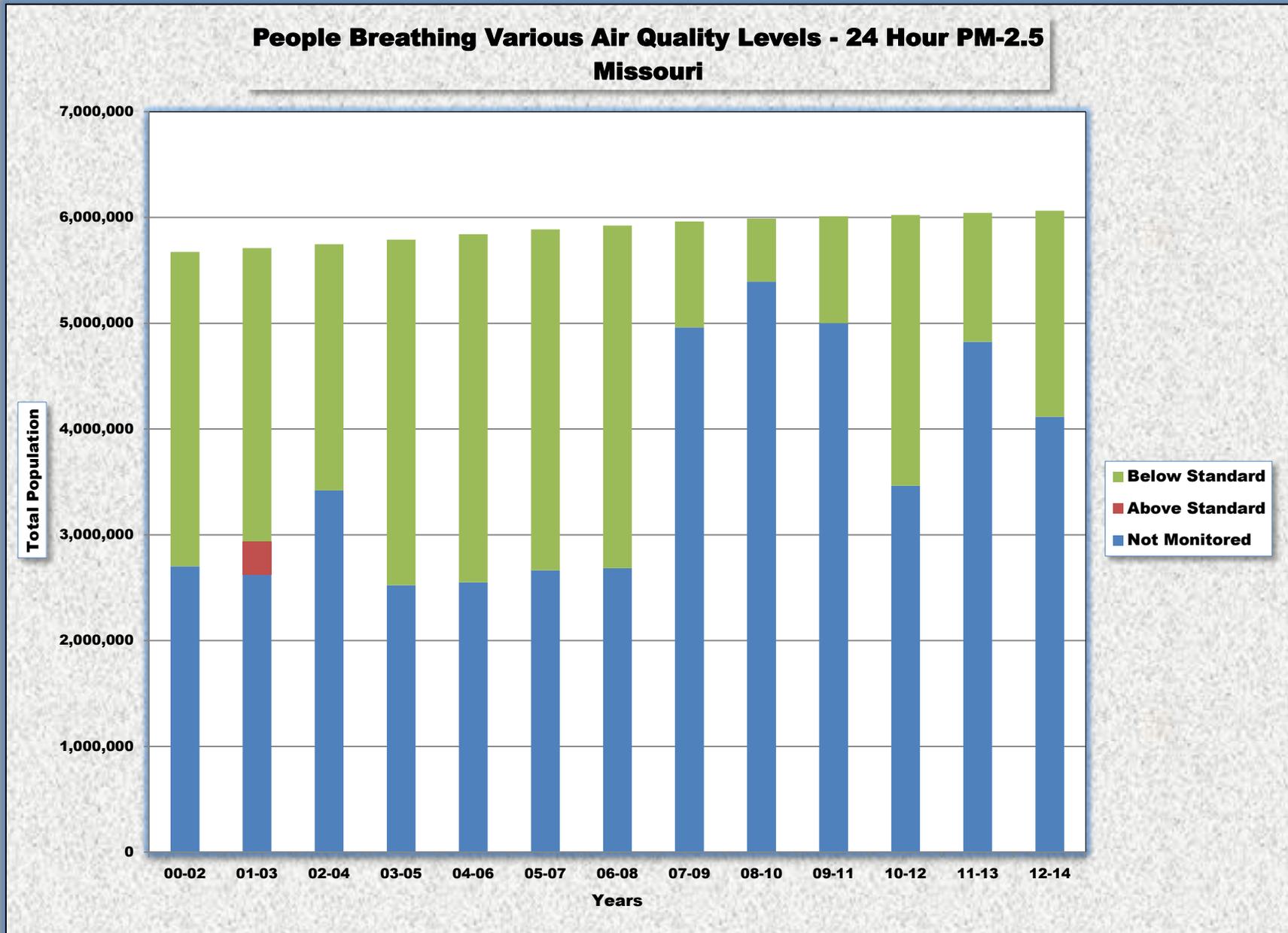
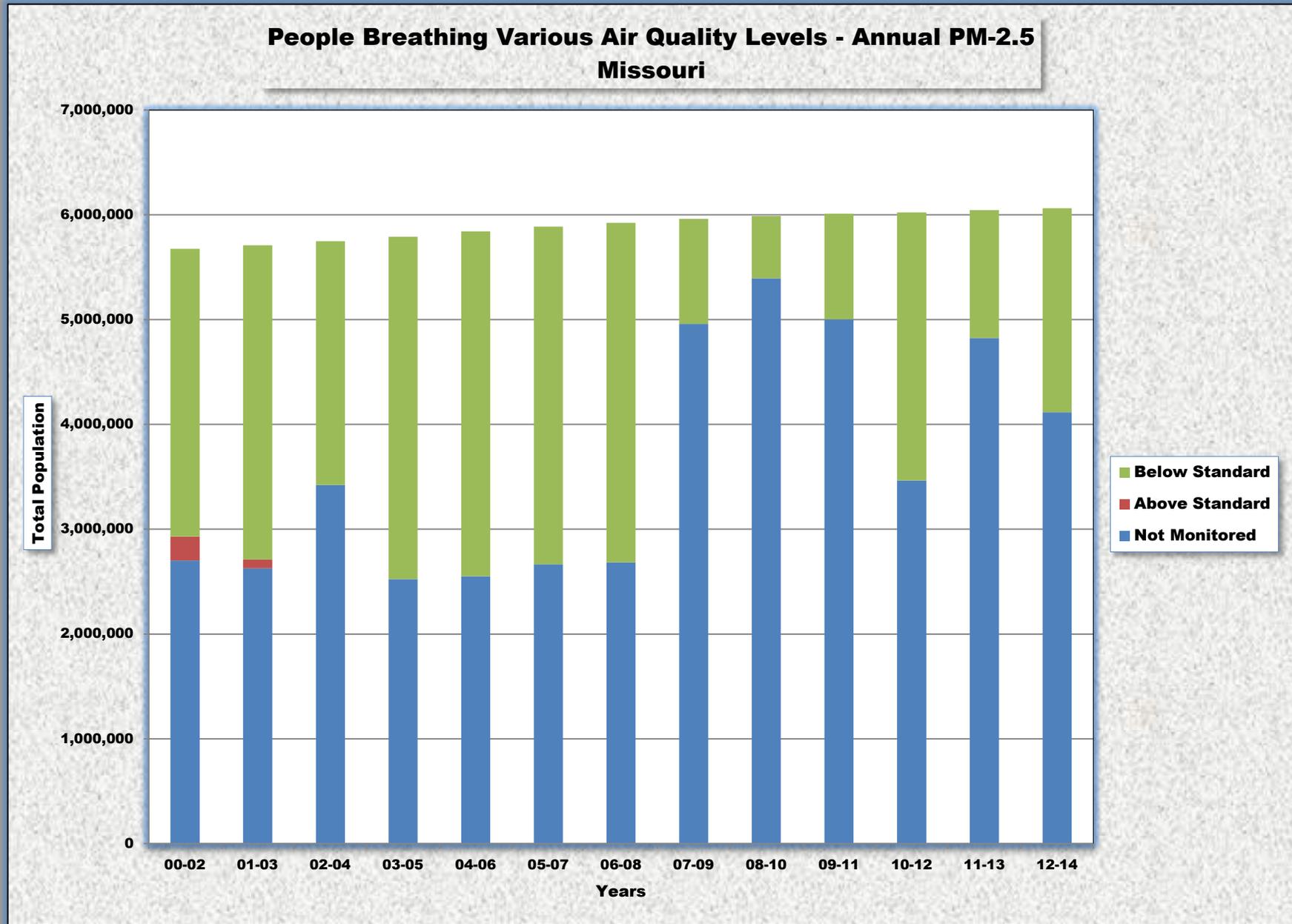


Figure MO-3



MONTANA

Ozone

Ozone levels in Montana have historically been better than the standard. In the 2000 – 2002 time period, approximately 78 thousand people (8.5%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 283 thousand people (27.6%). The remainder of the population lived in counties where ozone was not measured. Figure MT-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Montana have generally been better than the standard. In the 2000 – 2002 time period, approximately 0.6 million people (69.6%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 0.39 million people (38.0%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MT-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Montana have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.6 million people (69.6%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this was approximately 0.39 million people (38.0%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure MT-3 shows the distribution of people by year.

Table MT-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Flathead	94,924	0.053	A	N	24	A	7.6	A	N
Lewis & Clark	65,856	0.055	A	N	17	A	5.5	A	Y
Lincoln	19,125	ND	--	--	27	A	10.1	B	N
Missoula	112,684	0.055	A	N	22	A	8.0	A	Y
Ravalli	41,030	ND	--	--	26	A	7.3	A	N
Richland	11,576	ND	--	--	15	A	6.9	A	N
Rosebud	9,326	0.056	A	N	13	A	5.1	A	N
Silver Bow	34,680	ND	--	--	30	B	8.5	A	N
Subtotal	389,201								
Not Monitored	634,378								
Total	1,023,579								

DV = Design Value

ND = No Data

MM = Multiple Monitors

MONTANA

**Table MT-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	77,583	79,643	81,247	83,320	85,759	229,759	90,260	90,910	90,928	91,301	102,792	167,735	282,790
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	77,583	79,643	81,247	83,320	85,759	229,759	90,260	90,910	90,928	91,301	102,792	167,735	282,790
NM	834,084	839,987	848,762	856,782	866,938	734,943	886,155	893,072	898,487	906,898	902,349	847,430	740,789
Total	911,667	919,638	930,009	940,102	952,692	964,706	976,415	983,982	989,415	998,199	1,005,141	1,015,165	1,023,579

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	309,258	244,572	249,211	114,186	258,495	468,492	584,903	418,713	20,646	172,156	131,183	322,250	354,521
B	192,217	13,559	13,817	152,851	101,521	0	0	19,657	109,200	0	40,617	34,623	34,680
C	97,968	0	0	0	33,441	139,599	53,353	34,008	0	0	99,219	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	18,669	0	0	0	123,600	19,440	0	0	0	0	0	0	0
Subtotal	618,112	258,139	263,028	267,037	517,052	627,631	638,256	472,378	129,846	172,156	271,019	356,873	389,201
NM	293,555	661,499	666,981	673,065	435,640	337,075	338,159	511,604	859,569	826,043	734,122	658,292	634,378
Total	911,667	919,638	930,009	940,102	952,692	964,706	976,415	983,982	989,415	998,199	1,005,141	1,015,165	1,023,579

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	572,629	147,130	263,026	267,036	497,829	608,091	618,715	472,378	29,846	172,156	271,019	356,873	370,076
B	26,814	0	0	0	0	0	19,541	0	0	0	0	0	19,125
C	0	0	0	0	19,228	19,440	0	0	0	0	0	0	0
D	18,669	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	618,112	258,138	263,028	267,036	517,052	627,631	638,256	472,378	129,846	172,156	271,019	356,873	389,201
NM	293,555	661,500	666,981	673,066	435,640	337,175	338,159	511,604	859,569	826,043	734,122	658,292	634,378
Total	911,667	919,638	930,009	940,102	952,692	964,706	976,415	983,982	989,415	998,199	1,005,141	1,015,165	1,023,579

NM - Not Monitored

Figure MT-1

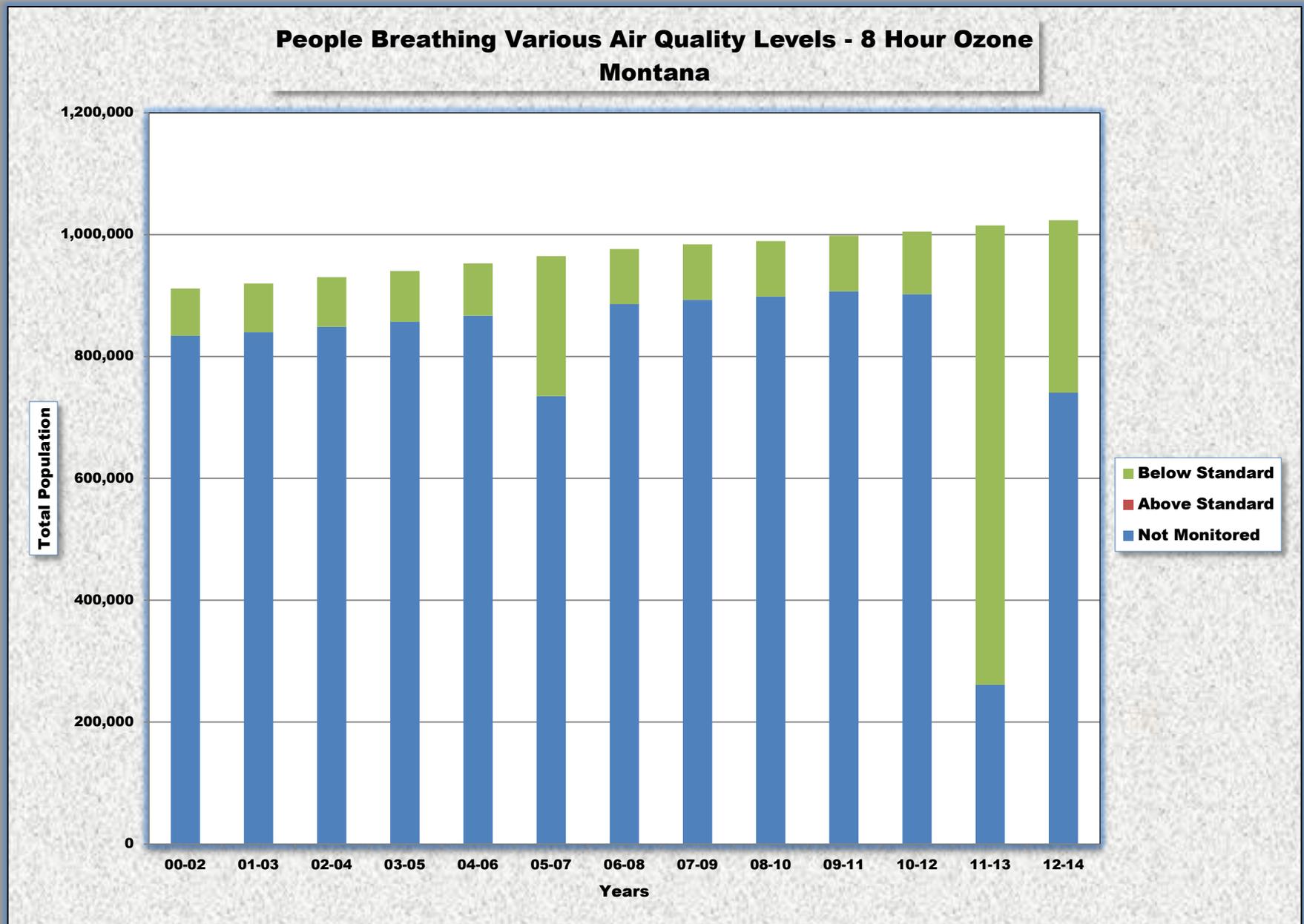


Figure MT-2

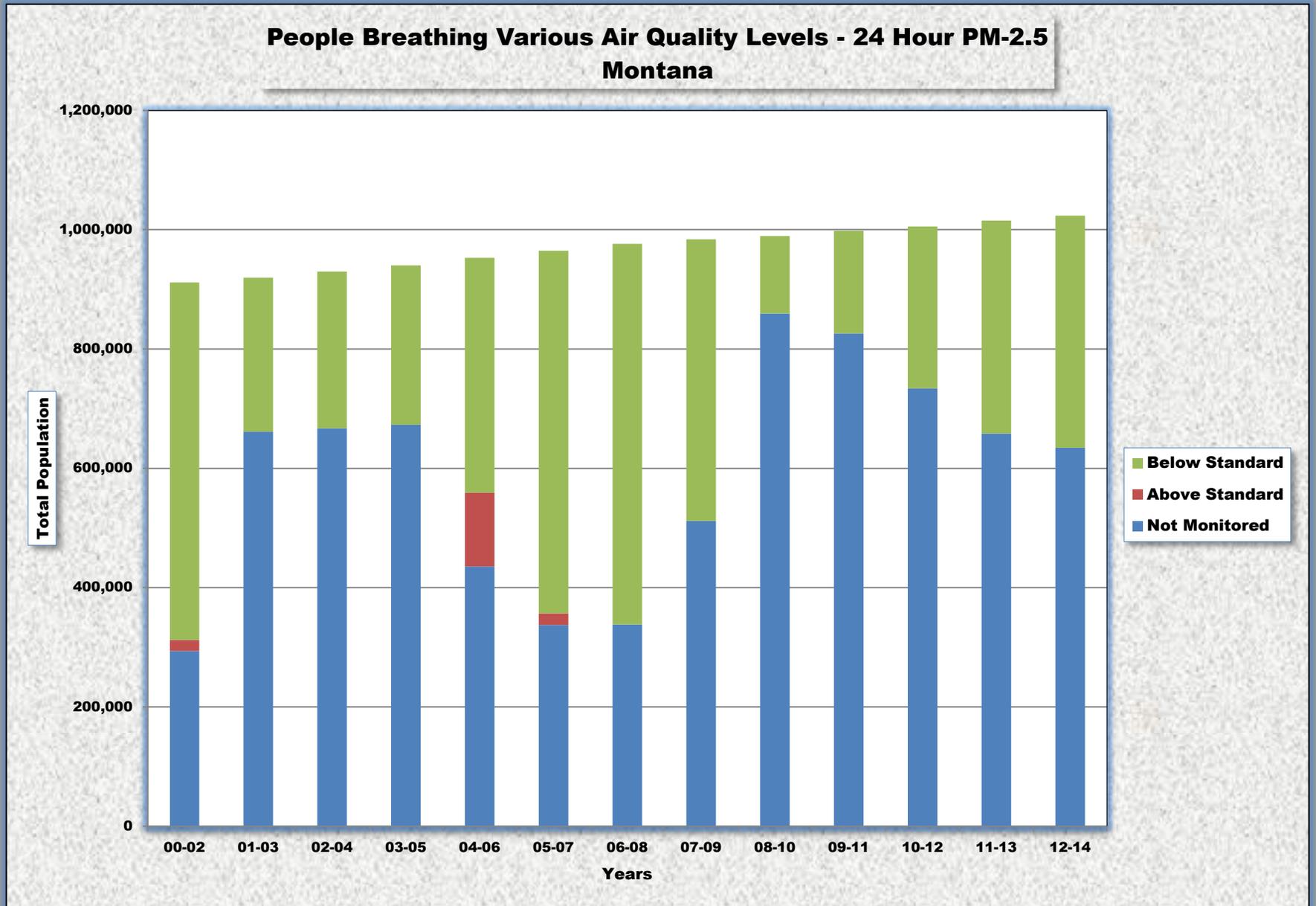
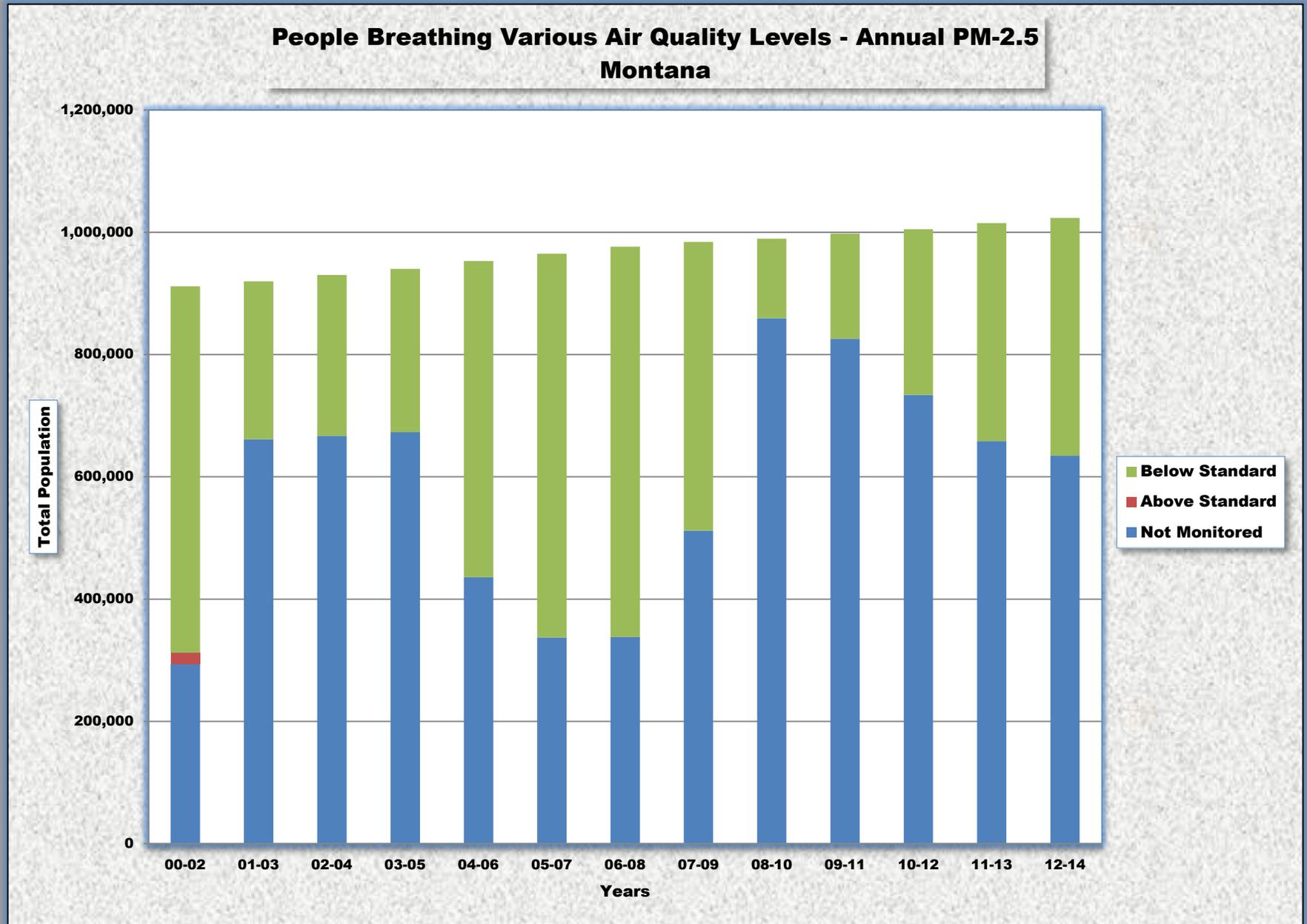


Figure MT-3



NEBRASKA

Ozone

Ozone levels in Nebraska have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.7 million people (42.3%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 0.9 million people (45.4%). The remainder of the population lived in counties where ozone was not measured. Figure NE-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Nebraska have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.9 million people (49.7%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 1.1 million people (58.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NE-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Nebraska have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.9 million people (49.7%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 1.1 million people (58.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NE-3 shows the distribution of people by year.

**Table NE-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Douglas	543,244	0.064	B	Y	21	A	8.7	A	Y
Hall	61,492	ND	--	--	18	A	7.2	A	N
Knox	8,482	0.068	C	N	ND	--	ND	--	--
Lancaster	301,795	0.058	A	N	19	A	8.0	A	N
Sarpy	172,193	ND	--	--	23	A	10.0	B	N
Washington	20,258	ND	--	--	21	A	8.3	A	N
Subtotal	1,107,464								
Not Monitored	774,039								
Total	1,881,503								

DV = Design Value

ND = No Data

MM = Multiple Monitors

NEBRASKA

**Table NE-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	415,687	421,567	265,087	268,868	272,286	276,012	447,787	624,365	543,962	552,231	293,407	297,036	301,795
B	157,289	317,801	482,075	488,114	164,586	332,495	336,365	170,634	258,555	262,431	531,265	537,256	543,244
C	157,289	0	0	0	329,171	166,248	0	0	0	0	0	8,565	8,482
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	730,265	739,368	747,162	756,982	769,043	774,755	784,152	794,999	802,517	814,662	824,672	842,857	853,521
NM	998,027	999,275	1,002,208	1,004,515	1,006,650	1,008,685	1,012,226	1,017,684	1,023,824	1,027,979	1,030,853	1,025,659	1,027,982
Total	1,728,292	1,738,643	1,749,370	1,761,497	1,775,693	1,783,440	1,796,378	1,812,683	1,826,341	1,842,641	1,855,525	1,868,516	1,881,503

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	858,558	818,286	586,470	512,925	930,169	1,035,252	1,050,346	1,029,225	881,358	894,433	905,269	1,084,566	1,098,982
B	0	0	185,766	269,227	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	858,658	818,286	772,236	782,152	930,169	1,035,252	1,050,346	1,029,225	881,358	894,433	905,269	1,084,566	1,098,982
NM	869,734	920,357	977,134	979,345	842,524	748,188	746,032	783,468	944,983	948,208	950,256	783,950	782,521
Total	1,728,292	1,738,643	1,749,370	1,761,497	1,775,693	1,783,440	1,796,378	1,812,683	1,826,341	1,842,641	1,855,525	1,868,516	1,881,503

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	858,558	818,286	772,236	782,152	930,169	1,035,252	1,050,346	1,029,225	881,358	894,433	905,269	646,607	926,789
B	0	0	0	0	0	0	0	0	0	0	0	268,628	172,193
C	0	0	0	0	0	0	0	0	0	0	0	169,331	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	858,558	818,286	772,236	782,152	930,169	1,035,252	1,050,346	1,029,225	881,358	894,433	905,269	1,084,566	1,098,982
NM	869,734	920,357	977,134	979,345	842,524	748,188	746,032	783,468	944,983	948,208	950,256	783,950	782,521
Total	1,728,292	1,738,643	1,749,370	1,761,497	1,775,693	1,783,440	1,796,378	1,812,683	1,826,341	1,842,641	1,855,525	1,868,516	1,881,503

NM = Not Monitored

Figure NE-1

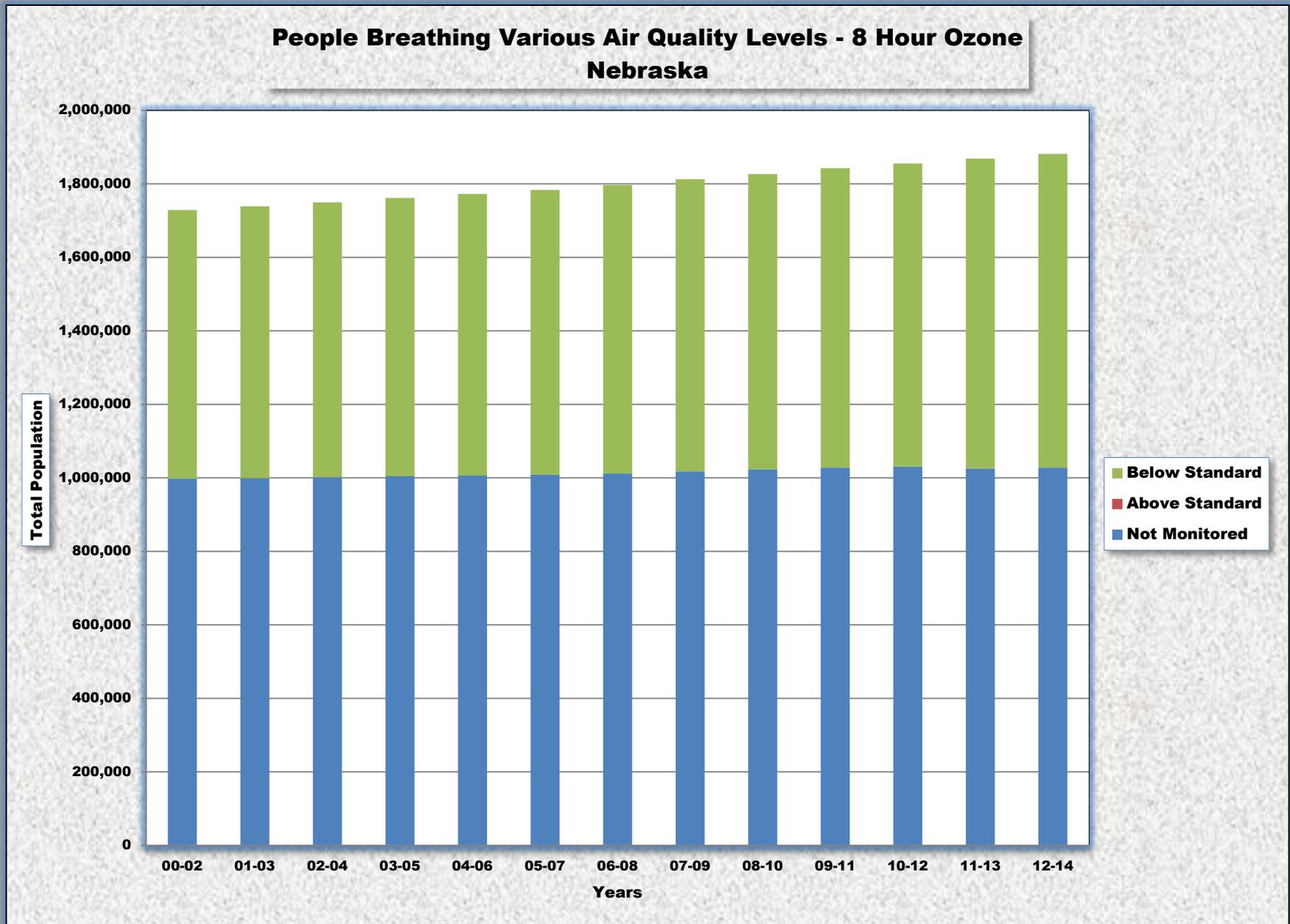


Figure NE-2

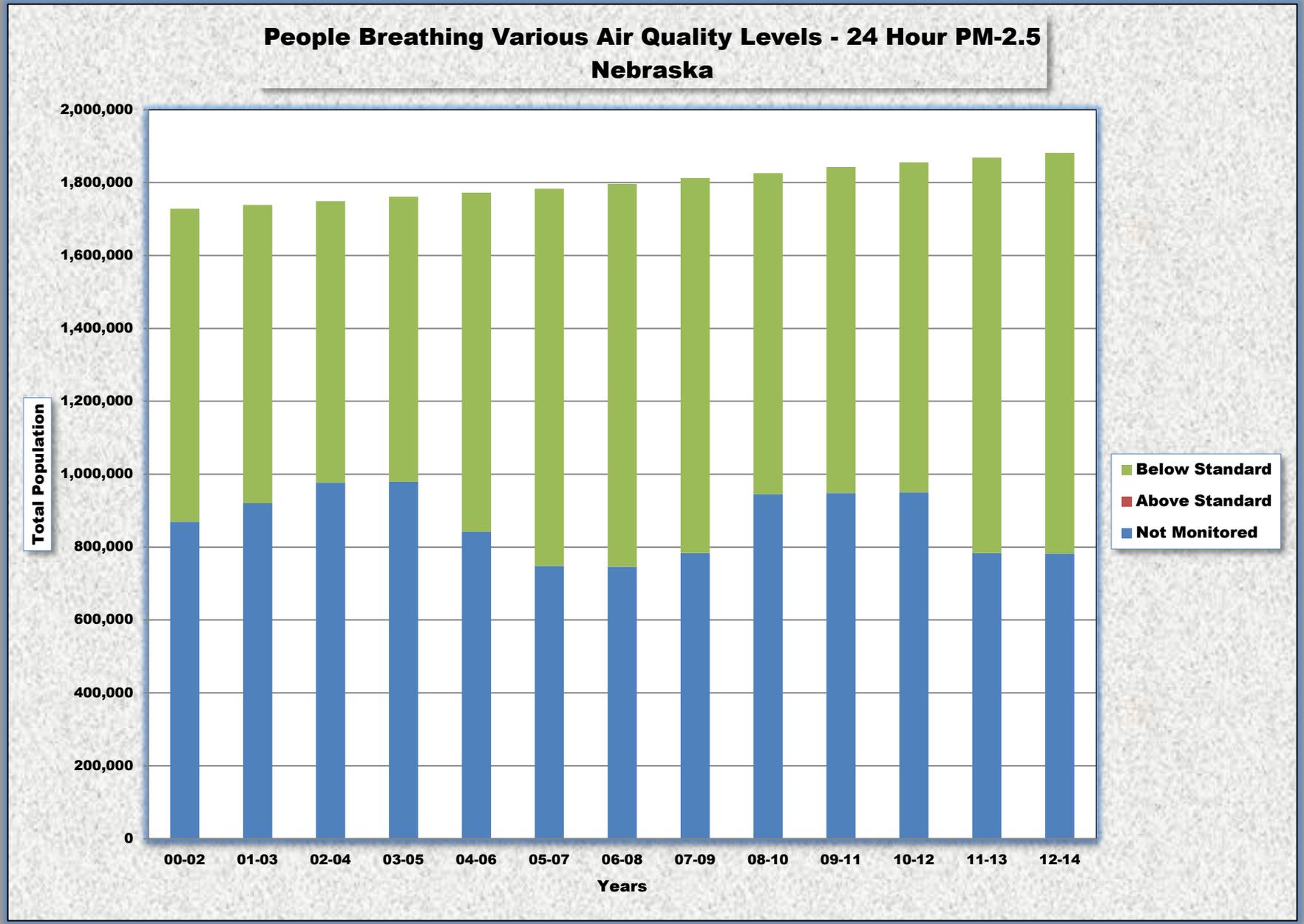
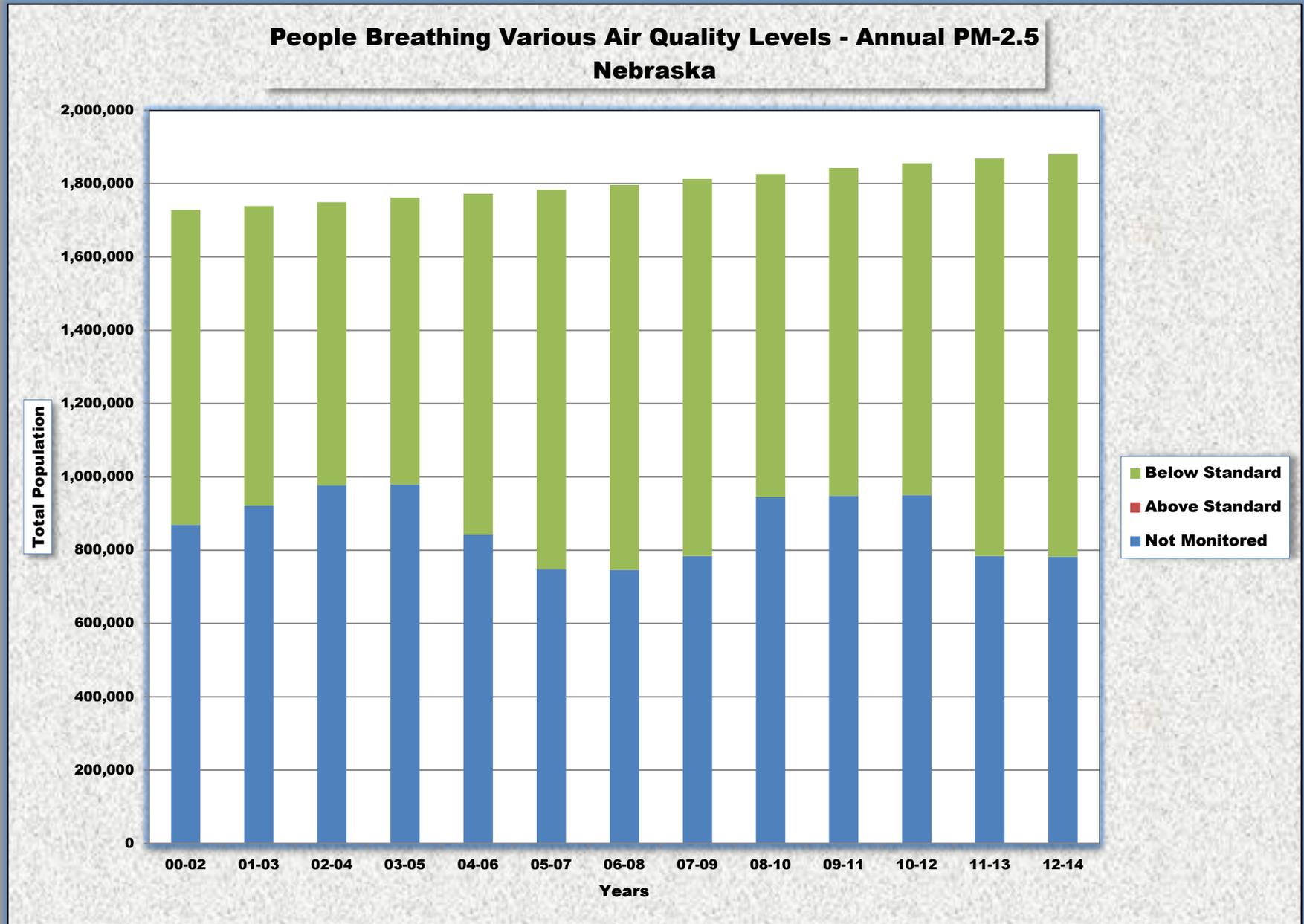


Figure NE-3



NEVADA

Ozone

Significant progress has been made in ozone levels in Nevada. In the 2000 – 2002 time period, approximately 1.2 million people (56.6%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 2.7 million people (93.3%). The remainder of the population lived in counties where ozone was not measured. Figure NV-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Nevada have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.9 million people (86.7%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 2.5 million people (88.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NV-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Nevada have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.9 million people (86.7%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 2.5 million people (88.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NV-3 shows the distribution of people by year.

Table NV-1
2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Churchill	23,989	0.060	B	N	ND	--	ND	--	--
Clark	2,069,681	0.072	C	Y	17	A	7.1	A	Y
Lyon	51,789	0.067	B	N	ND	--	ND	--	--
Washoe	440,078	0.067	B	Y	24	A	7.5	A	Y
White Pine	10,034	0.071	C	N	ND	--	ND	--	--
Carson City	54,522	0.068	C	N	ND	--	ND	--	--
Subtotal	2,650,093								
Not Monitored	189,006								
Total	2,839,099								

DV – Design Value

ND - No Data

MM – Multiple Monitors

NEVADA

**Table NV-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	24,637	24,375	24,063	0
B	72,475	74,460	183,587	186,887	55,410	161,994	172,153	341,341	193,440	425,710	198,141	270,445	295,817
C	1,158,012	972,024	620,201	765,126	826,220	623,962	865,836	1,304,829	1,214,141	980,073	2,348,733	2,305,848	2,354,276
D	761,481	792,083	1,187,695	1,111,836	1,387,518	1,580,461	1,323,934	745,926	0	0	0	0	0
F	0	226,309	237,539	123,537	0	0	0	0	0	0	0	0	0
Subtotal	1,991,968	2,064,876	2,229,022	2,187,386	2,269,148	2,366,416	2,361,923	2,392,096	1,407,581	1,430,420	2,581,249	2,601,000	2,650,093
NM	181,823	183,974	117,200	244,757	253,510	234,655	291,707	292,569	1,292,970	1,292,902	187,682	189,780	189,006
Total	2,173,791	2,248,850	2,346,222	2,432,143	2,522,658	2,601,072	2,653,630	2,684,665	2,700,551	2,723,322	2,758,931	2,790,136	2,839,099

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,142,222	1,639,635	1,712,995	2,122,238	1,803,774	1,857,817	2,327,142	1,939,407	1,951,269	2,395,685	2,430,667	2,244,734	2,363,066
B	743,115	316,833	332,555	0	0	408,724	0	0	421,407	0	0	0	146,693
C	0	0	0	0	400,453	0	0	417,722	0	0	0	216,866	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,885,337	1,956,468	2,045,550	2,122,238	2,204,227	2,266,541	2,327,142	2,357,129	2,372,676	2,395,685	2,430,647	2,461,600	2,509,759
NM	288,454	292,382	300,672	309,905	318,431	334,531	326,488	327,536	327,875	327,637	328,284	328,536	329,340
Total	2,173,791	2,248,850	2,346,222	2,432,143	2,522,658	2,601,072	2,653,630	2,684,665	2,700,551	2,723,322	2,758,931	2,790,136	2,839,099

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,885,336	1,956,468	2,045,550	2,122,238	2,204,227	2,266,541	2,327,142	2,357,129	2,372,676	2,395,685	2,430,667	2,244,734	2,509,759
B	0	0	0	0	0	0	0	0	0	0	0	216,866	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,856,336	1,956,468	2,045,550	2,122,238	2,204,227	2,266,641	2,327,142	2,357,129	2,372,676	2,395,685	2,430,667	2,461,600	2,509,759
NM	288,455	292,382	300,672	309,905	318,431	334,531	326,488	327,536	327,875	327,637	326,284	328,536	329,340
Total	2,173,791	2,248,850	2,346,222	2,432,143	2,522,658	2,601,072	2,653,630	2,684,668	2,700,551	2,723,322	2,758,931	2,790,136	2,839,099

NM – Not Monitored

Figure NV-1

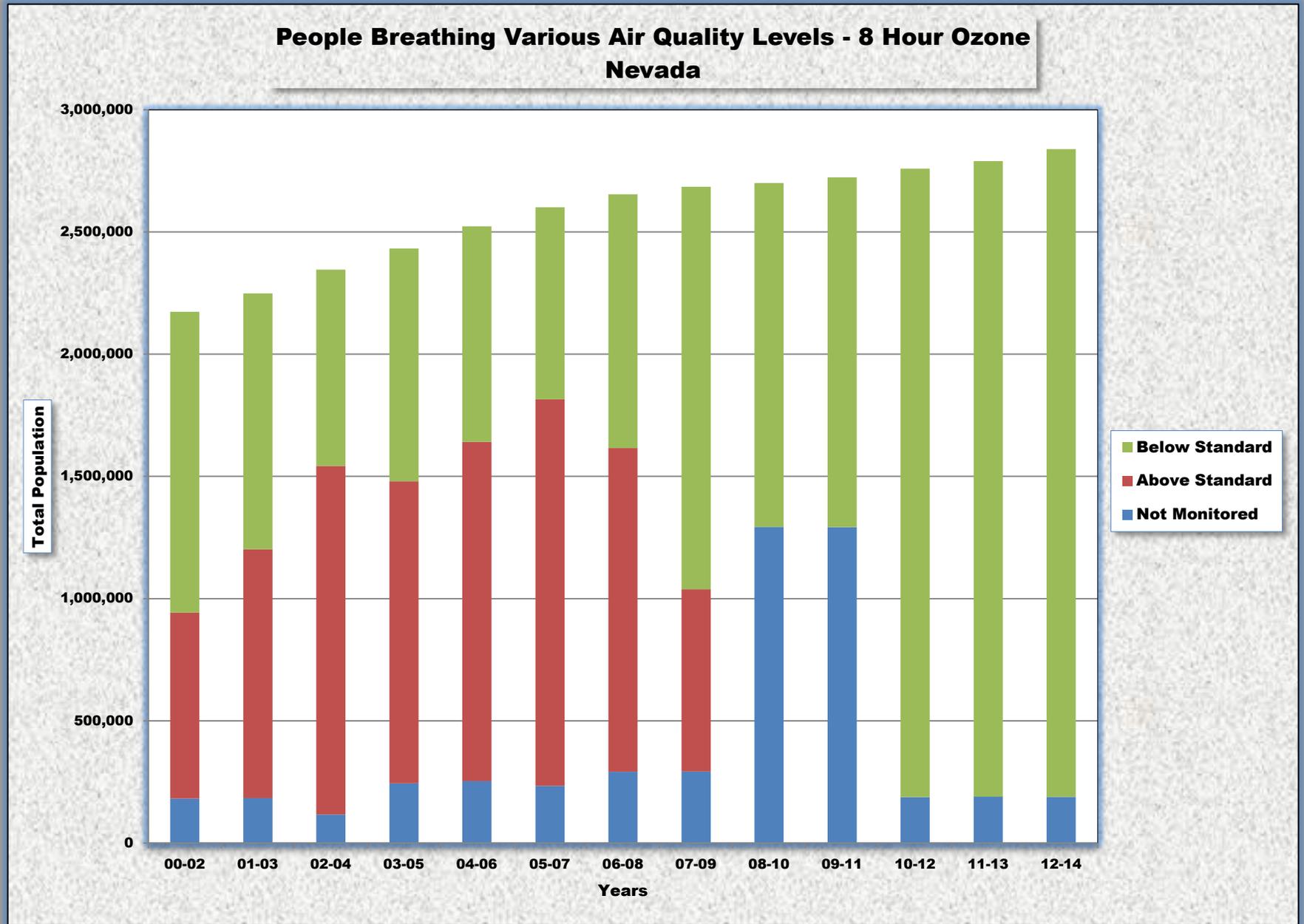


Figure NV-2

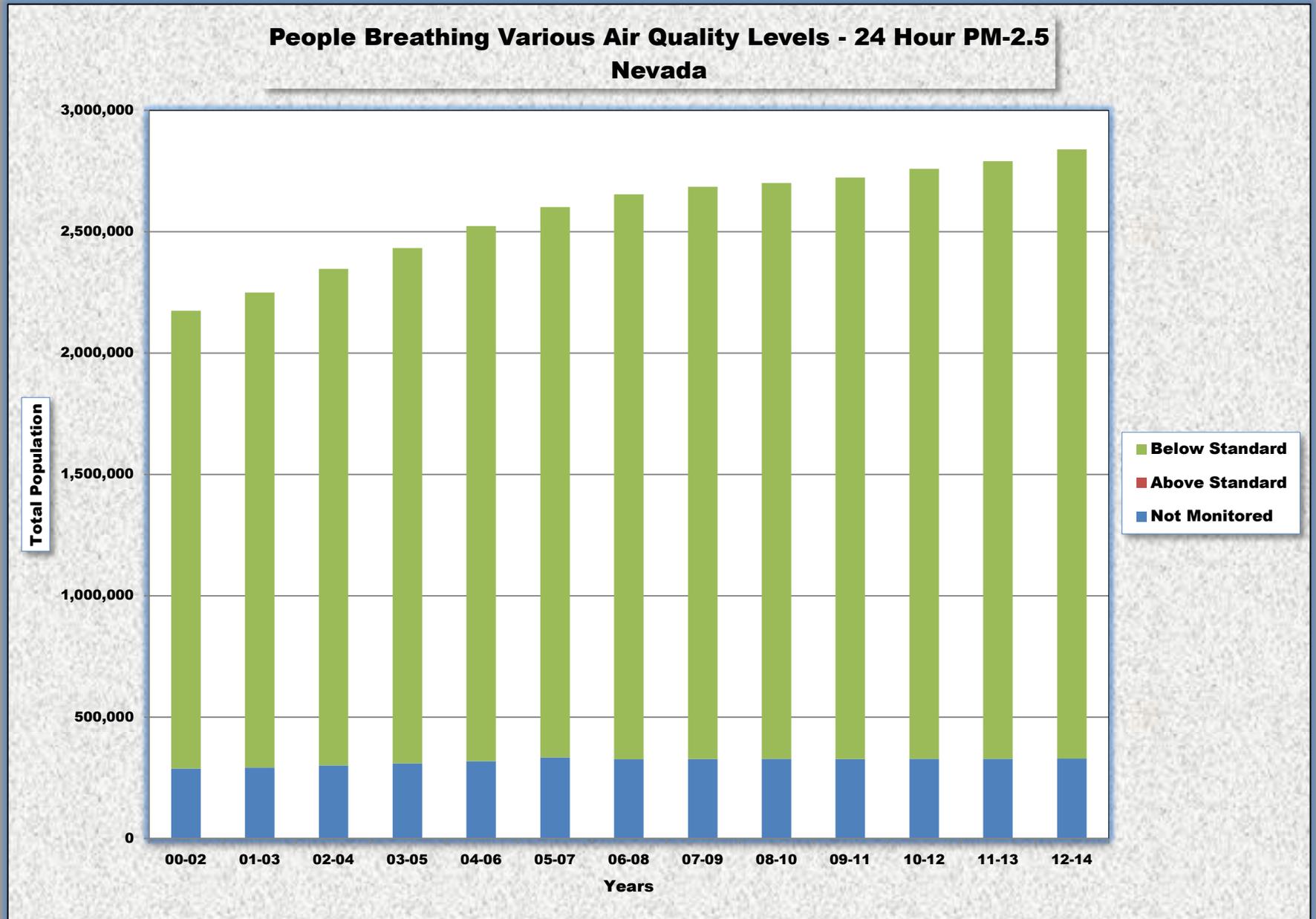
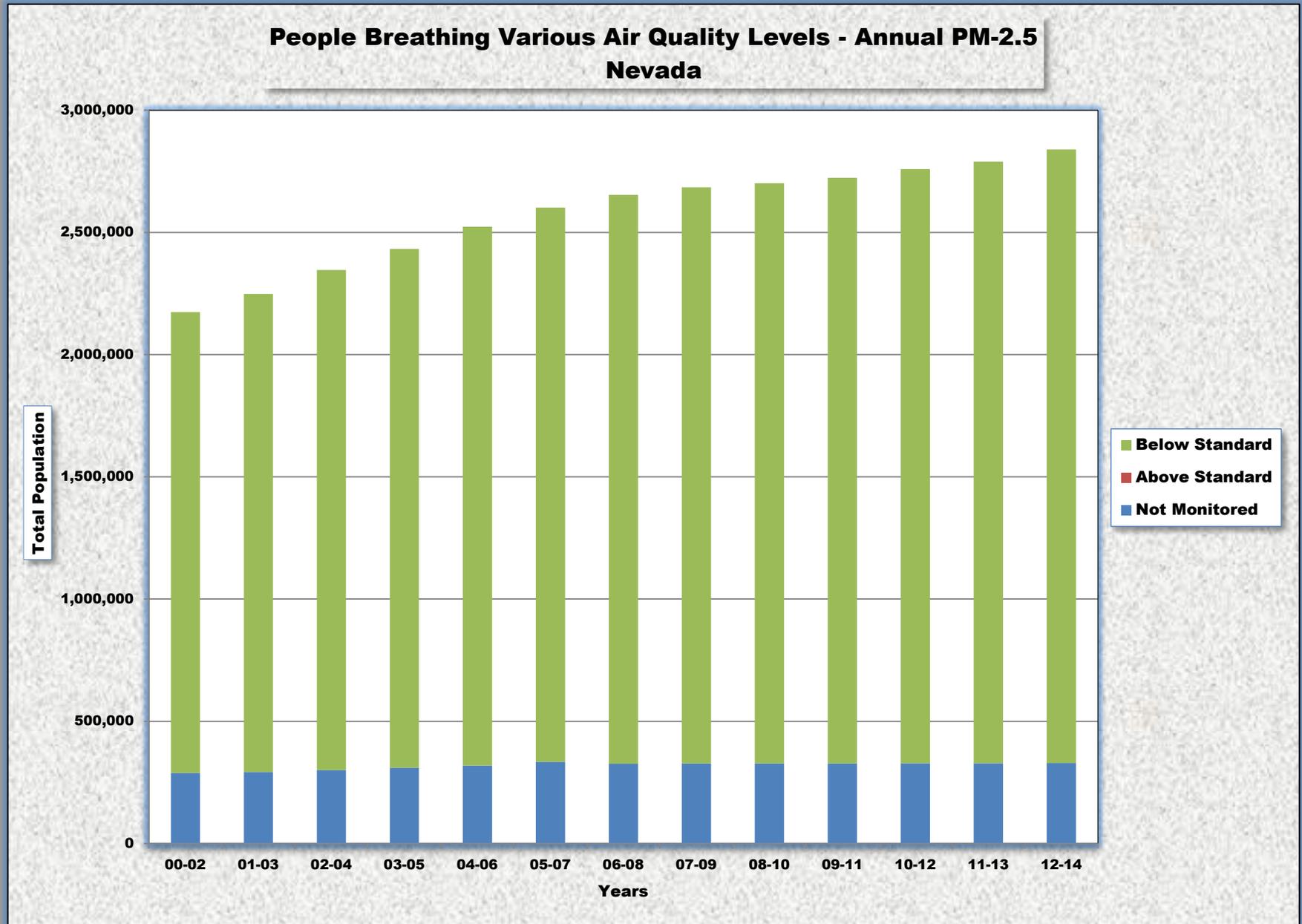


Figure NV-3



NEW HAMPSHIRE

Ozone

Significant progress has been made in ozone levels in New Hampshire. In the 2000 – 2002 time period, approximately 0.4 million people (30.4%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 1.1 million people (84.4%). The remainder of the population lived in counties where ozone was not measured. Figure NH-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in New Hampshire have historically been better than the standard. In the 2000 – 2002 time period, approximately 33 thousand people (2.6%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 1.1 million people (81.3%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NH-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in New Hampshire have historically been better than the standard. In the 2000 – 2002 time period, approximately 33 thousand people (2.6%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 1.1 million people (81.3%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NH-3 shows the distribution of people by year.

**Table NH-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Belknap	60,305	0.062	B	N	13	A	5.4	A	N
Cheshire	76,115	0.062	B	N	27	A	8.9	A	N
Coos	31,653	0.063	B	Y	ND	--	ND	--	--
Grafton	89,658	0.060	B	Y	16	A	6.2	A	N
Hillsborough	405,184	0.068	C	Y	14	A	5.7	A	Y
Merrimack	147,171	0.063	B	N	18	A	7.8	A	N
Rockingham	300,621	0.067	B	Y	19	A	7.7	A	Y
Subtotal	1,110,707								
Not Monitored	216,106								
Total	1,326,813								

DV – Design Value

ND - No Data

MM – Multiple Monitors

NEW HAMPSHIRE

**Table NH-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	105,267	0	44,815	60,655
B	45,074	0	33,589	33,845	33,814	121,515	122,233	316,223	656,503	780,775	888,449	947,859	631,219
C	340,474	268,849	760,460	901,124	841,345	608,500	742,517	487,818	556,324	217,192	217,509	115,710	418,833
D	258,920	252,478	42,547	198,191	265,446	412,961	147,498	297,536	0	0	0	0	0
F	532,774	679,354	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,177,242	1,200,681	836,596	1,133,160	1,140,605	1,142,976	1,012,248	1,101,577	1,101,827	1,103,234	1,105,928	1,108,384	1,119,707
NM	91,847	79,159	453,525	165,332	167,784	169,564	303,658	214,525	214,643	214,960	214,790	215,075	216,106
Total	1,269,089	1,279,840	1,290,121	1,298,492	1,308,389	1,312,540	1,315,906	1,316,102	1,316,470	1,318,194	1,320,718	1,323,459	1,326,813

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	33,234	0	60,170	457,741	1,019,551	931,480	1,034,473	902,125	979,594	697,421	776,042	700,642	1,079,054
B	0	582,131	980,217	675,418	121,054	77,745	77,472	77,302	0	76,918	0	76,610	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	33,234	582,131	1,040,387	1,133,159	1,140,605	1,009,225	1,111,945	979,427	979,594	774,339	776,042	777,262	1,079,054
NM	1,235,855	697,709	249,734	165,333	167,784	303,315	203,961	336,675	336,876	543,855	544,676	546,207	247,759
Total	1,269,089	1,279,840	1,290,121	1,298,492	1,308,389	1,312,540	1,315,906	1,316,102	1,316,470	1,318,194	1,320,718	1,323,459	1,326,813

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	33,234	0	1,184,228	1,133,159	1,140,605	1,009,225	1,111,945	979,427	979,594	774,339	776,042	777,252	1,079,054
B	0	592,131	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	33,234	582,131	1,040,387	1,133,159	1,140,605	1,009,225	1,111,945	979,427	979,594	774,339	776,042	777,262	1,079,054
NM	1,235,855	697,709	105,893	165,333	167,784	303,315	203,961	336,675	336,876	543,855	544,676	546,207	247,759
Total	1,269,089	1,279,840	1,290,121	1,298,492	1,308,389	1,312,540	1,315,906	1,316,102	1,316,470	1,318,194	1,820,718	1,323,459	1,326,813

NM – Not Monitored

Figure NH-1

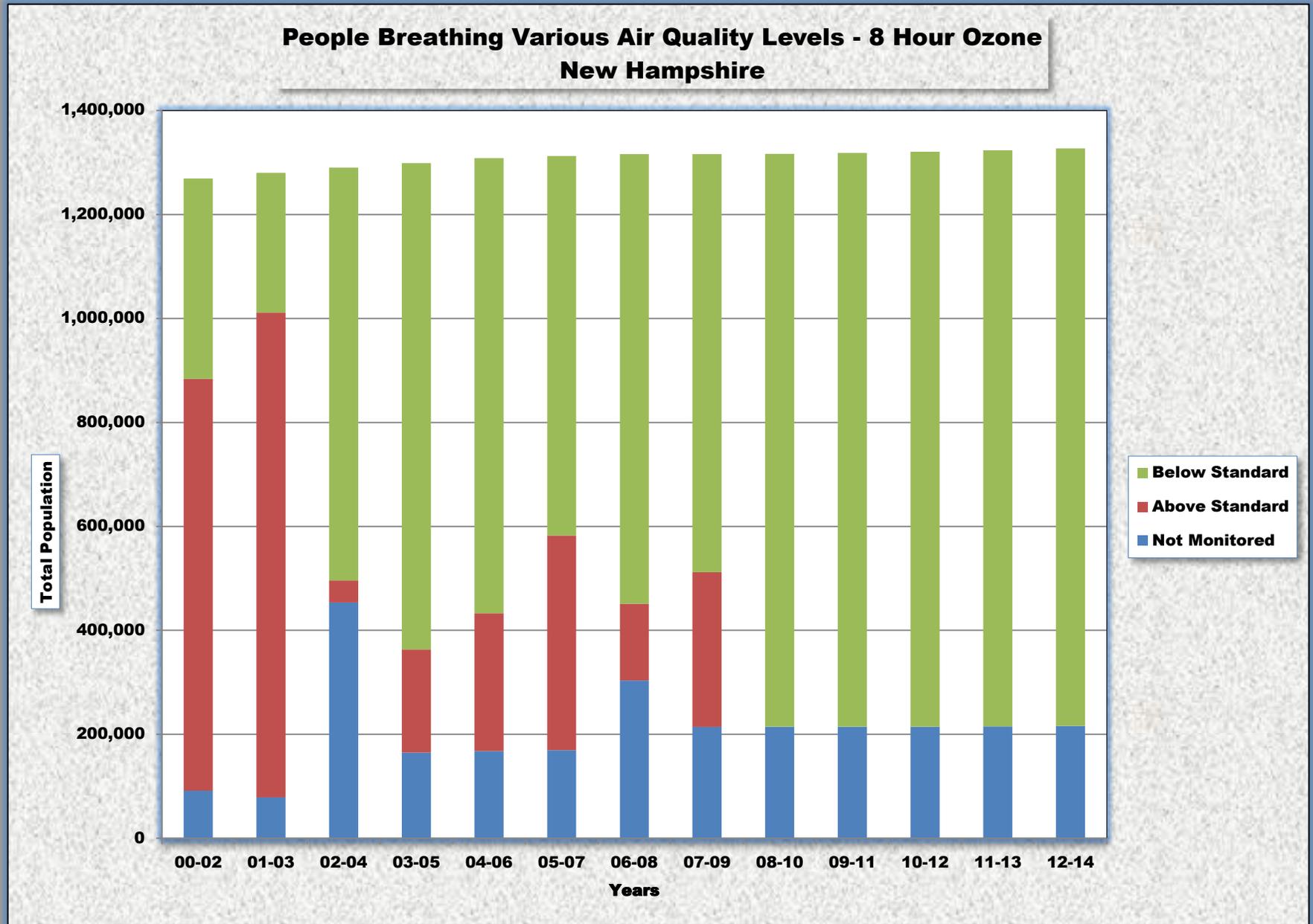


Figure NH-2

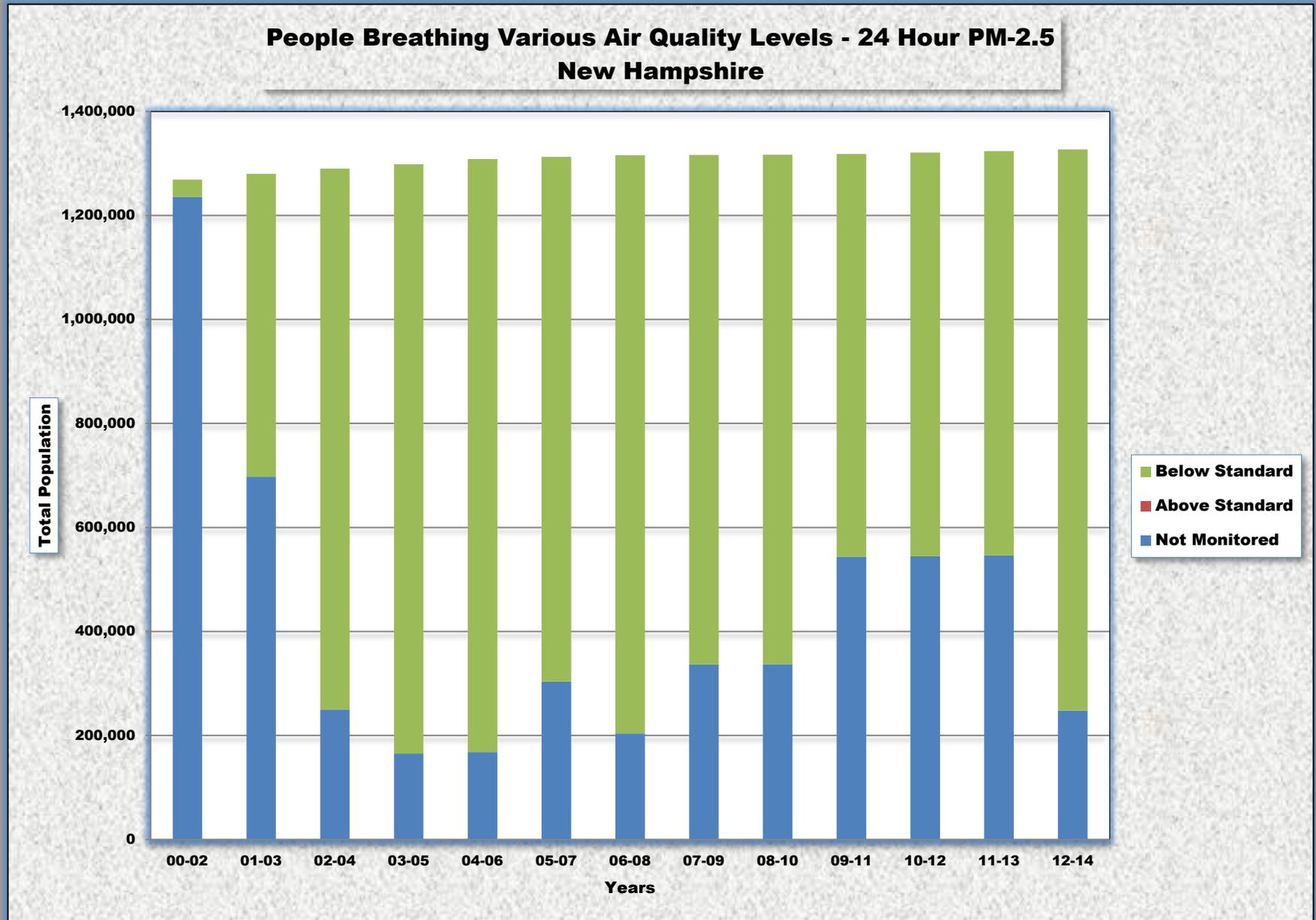
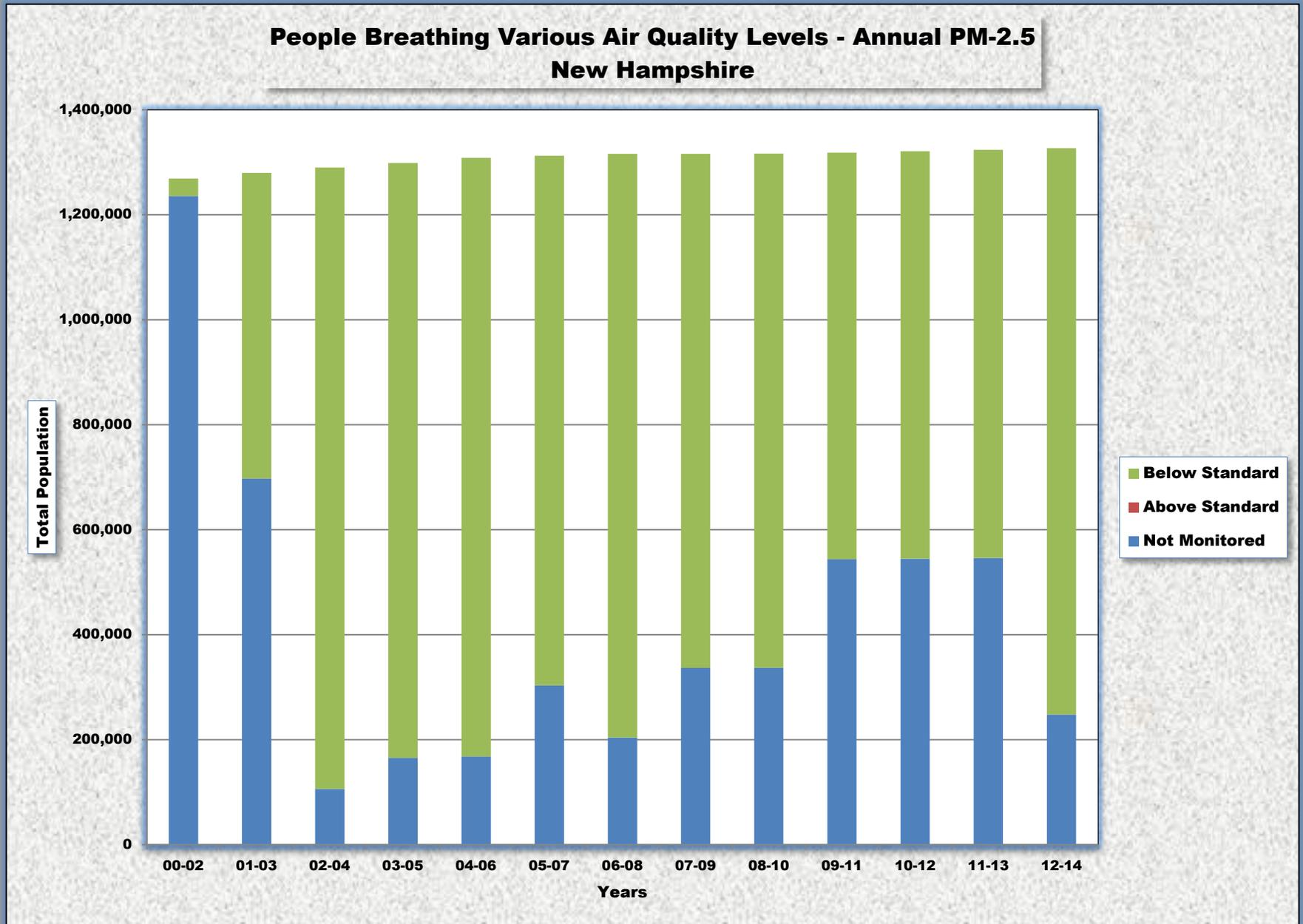


Figure NH-3



NEW JERSEY

Ozone

Significant progress has been made in ozone levels in New Jersey. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 5.1 million people (57.6%). Figure NJ-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in New Jersey. In the 2000 – 2002 time period, approximately 3.0 million people (34.9%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 6.9 million people (77.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NJ-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in New Jersey. In the 2000 – 2002 time period, approximately 4.0 million people (46.2%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 6.9 million people (77.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NJ-3 shows the distribution of people by year.

Table NJ-1
2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Atlantic	275,209	0.069	C	N	20	A	7.9	A	Y
Bergen	933,572	ND	--	--	24	A	8.8	A	N
Camden	511,038	0.074	C	Y	23	A	9.7	B	Y
Cumberland	157,389	0.070	C	N	ND	--	ND	--	--
Essex	795,723	0.073	C	N	25	A	9.0	A	N
Gloucester	290,951	0.076	D	N	24	A	9.2	A	N
Hudson	669,115	ND	--	--	25	A	10.1	B	Y
Hunterdon	126,067	0.072	C	N	ND	--	ND	--	--
Mercer	371,537	0.073	C	Y	22	A	8.5	A	Y
Middlesex	836,297	0.074	C	N	19	A	8.6	A	N
Monmouth	629,279	0.072	C	N	ND	--	ND	--	--
Morris	499,727	0.072	C	N	19	A	8.0	A	Y
Ocean	586,301	0.075	C	N	19	A	7.8	A	N
Passaic	508,856	0.069	C	N	24	A	8.9	A	N
Union	552,939	ND	--	--	26	A	10.0	B	Y
Warren	106,917	0.063	B	N	24	A	8.9	A	Y
Subtotal	7,850,917								
Not Monitored	1,087,258								
Total	8,938,175								

DV – Design Value

ND - No Data

MM – Multiple Monitors

NEW JERSEY

**Table NJ-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	0	0	0	0	106,917
C	0	0	0	0	0	0	0	274,049	1,268,051	1,428,416	660,670	938,866	5,041,904
D	0	0	0	0	1,251,975	272,303	650,642	4,788,939	5,009,892	4,507,217	2,340,517	4,340,486	546,470
F	5,176,432	5,774,810	6,135,654	6,155,906	4,916,065	5,012,792	4,397,793	287,362	0	0	2,836,020	290,265	0
Subtotal	5,176,432	5,774,810	6,135,654	6,155,906	6,168,040	5,285,095	5,048,435	5,350,350	6,277,943	5,935,633	5,837,207	5,569,616	5,695,291
NM	3,376,211	2,826,592	2,498,907	2,496,068	2,493,639	3,392,790	3,662,655	3,405,252	2,513,951	2,885,522	3,027,383	3,329,722	3,242,884
Total	8,552,643	8,601,402	8,634,561	8,651,974	8,661,679	8,677,885	8,711,090	8,755,602	8,791,894	8,821,155	8,864,590	8,899,339	8,938,175

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	2,613,211	4,289,292	6,289,070	6,680,483	6,714,855	6,799,977
B	0	0	271,714	0	1,230,208	746,900	2,422,757	2,470,232	1,718,215	500,143	181,325	182,752	138,235
C	2,982,274	2,994,605	2,866,700	1,606,469	1,670,099	1,827,988	2,349,909	894,789	0	0	0	0	0
D	1,586,162	1,081,700	2,372,139	3,490,498	2,533,730	2,988,771	883,297	0	0	0	0	0	0
F	283,813	1,035,654	878,065	1,302,033	788,628	569,299	0	0	0	0	0	0	0
Subtotal	4,832,249	5,111,959	6,388,618	6,399,000	6,122,665	6,132,958	5,655,963	5,978,232	6,001,507	6,789,513	6,861,808	6,897,607	6,938,212
NM	3,720,394	3,489,443	2,245,943	2,252,974	2,539,014	2,544,927	3,055,127	2,777,370	2,784,387	2,031,642	2,002,782	2,001,732	1,999,963
Total	8,552,643	8,601,402	8,634,561	8,651,974	8,661,679	8,677,885	8,711,090	8,755,602	8,791,894	8,821,155	8,864,590	8,899,339	8,938,175

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	263,285	1,997,465	1,222,492	2,017,098	1,235,255	2,604,816	5,397,729	6,007,507	6,789,513	6,861,808	5,689,069	5,737,108
B	876,054	884,136	2,211,646	2,637,625	3,316,939	3,508,039	2,477,616	580,503	0	0	0	695,645	1,062,869
C	3,076,828	3,700,732	1,916,049	2,363,496	788,628	1,082,845	573,531	0	0	0	0	512,893	138,235
D	879,367	263,806	263,458	175,387	0	306,819	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	4,832,248	5,111,959	6,388,618	6,399,000	6,122,665	6,132,958	5,655,963	5,978,232	6,010,507	6,789,313	6,861,808	6,897,607	6,938,212
NM	3,720,395	3,489,443	2,245,943	2,252,974	2,539,014	2,544,927	3,055,127	2,777,370	2,781,387	2,031,842	2,002,782	2,001,732	1,999,963
Total	8,552,643	8,601,402	8,634,561	8,651,974	8,661,679	8,677,885	8,711,090	8,755,602	8,791,894	8,821,155	8,864,590	8,899,339	8,938,175

NM – Not Monitored

Figure NJ-1

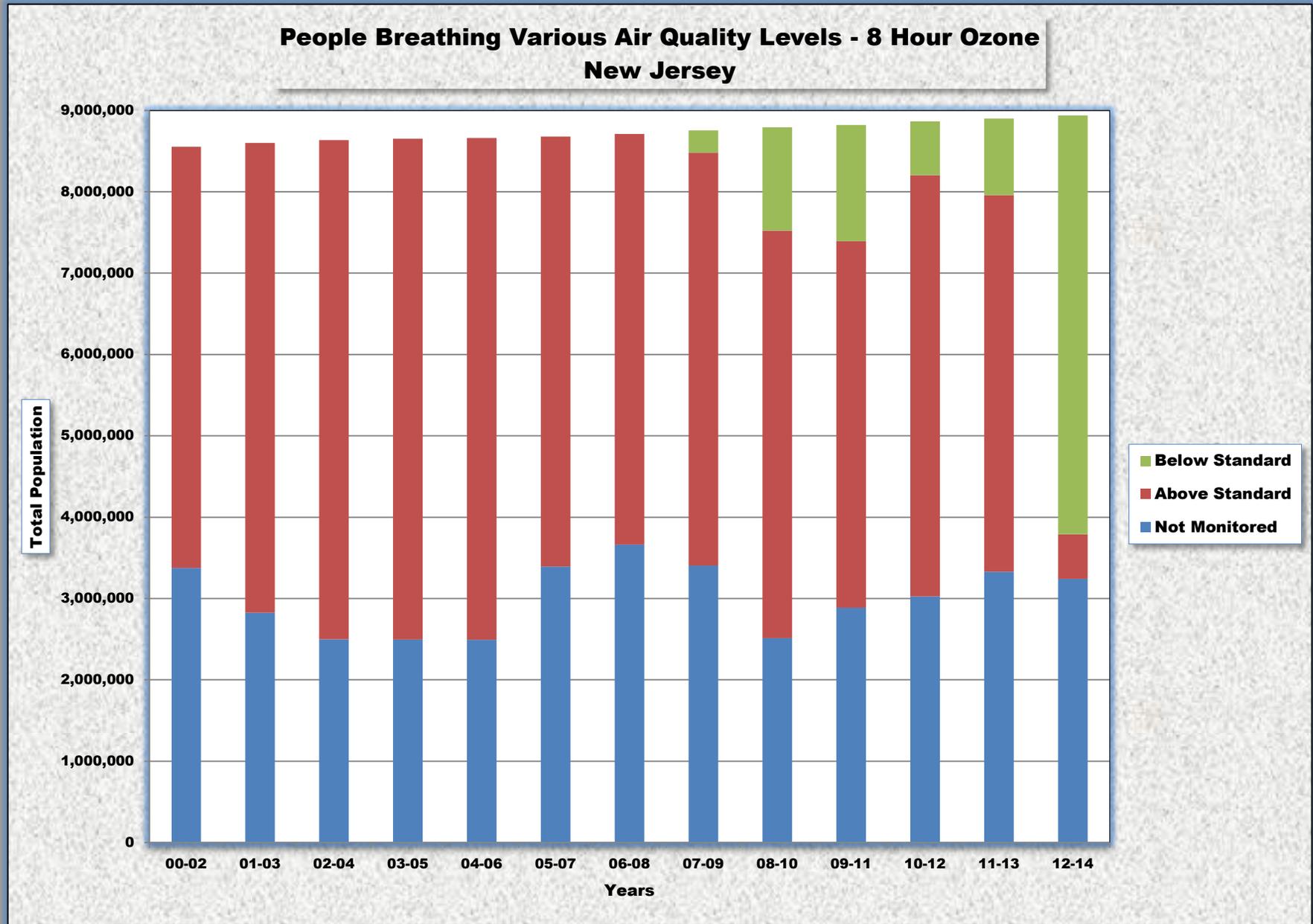


Figure NJ-2

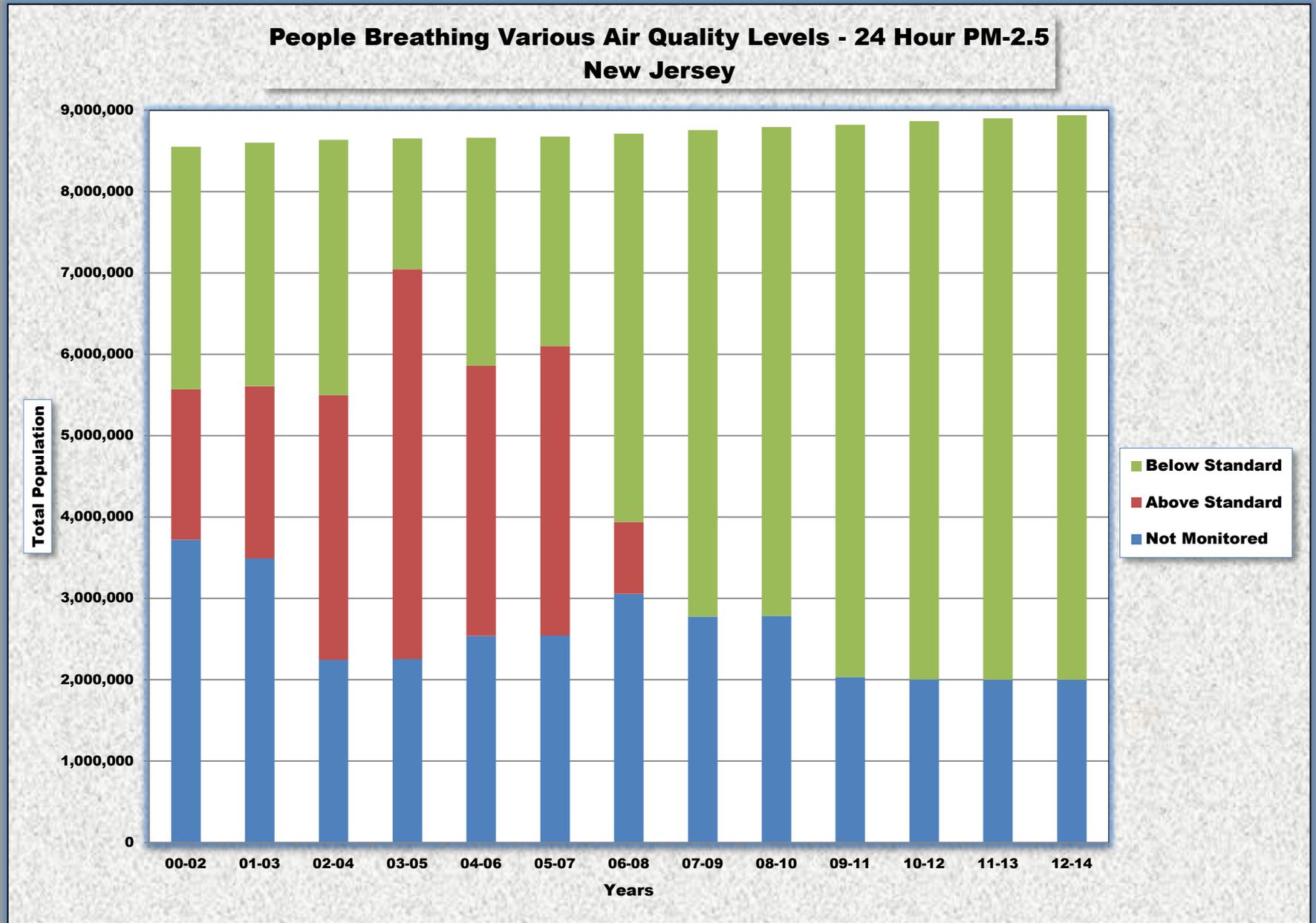
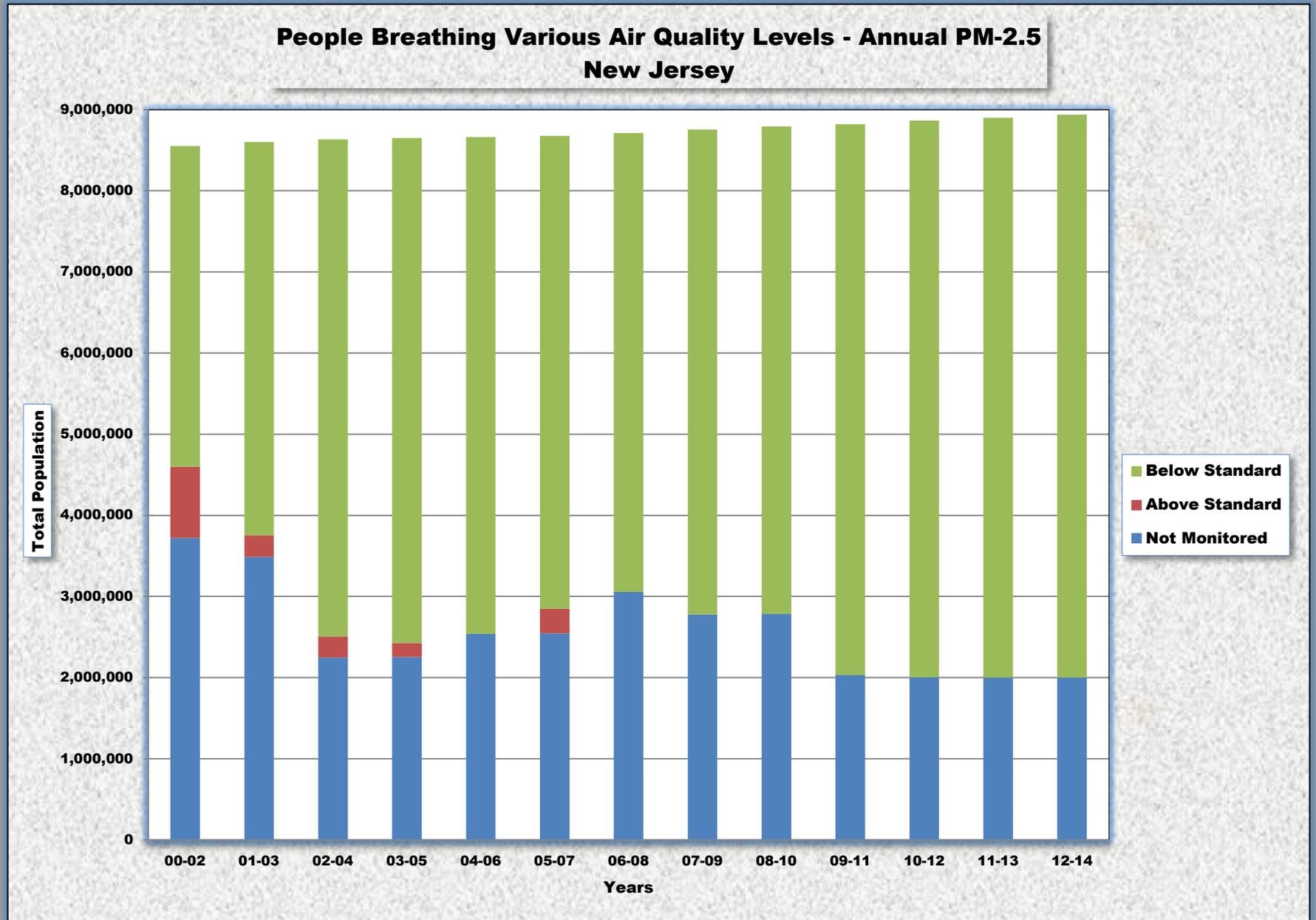


Figure NJ-3



NEW MEXICO

Ozone

Ozone levels in New Mexico have made significant progress. In the 2000 – 2002 time period, 0.9 million people (48.2%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 1.6 million people (74.5%). The remainder of the population lived in counties where ozone was not measured. Figure NM-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in New Mexico have improved. In the 2000 – 2002 time period, approximately 1.0 million people (54.9%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 1.2 million people (59.0%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NM-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in New Mexico have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.0 million people (54.9%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 1.2 million people (59.0%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NM-3 shows the distribution of people by year.

**Table NM-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg.24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Bernalillo	675,551	0.067	B	Y	16	A	6.5	A	N
Dona Ana	213,676	0.068	C	Y	14	A	6.2	A	N
Eddy	56,395	0.071	C	N	ND	--	ND	--	--
Grant	29,096	0.062	B	N	ND	--	ND	--	--
Lea	69,999	0.065	B	N	18	A	7.8	A	N
Luna	24,673	0.066	B	N	ND	--	ND	--	--
Sandoval	137,608	0.063	B	N	ND	--	ND	--	--
San Juan	123,785	0.067	B	Y	12	A	4.5	A	N
Santa Fe	148,164	0.066	B	N	9	A	4.5	A	N
Valencia	75,817	0.069	C	N	ND	--	ND	--	--
Subtotal	1,554,764								
Not Monitored	530,808								
Total	2,085,572								

DV – Design Value

ND - No Data

MM – Multiple Monitors

NEW MEXICO

**Table NM-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	25,119	89,822	25,281	0	0	0
B	25,495	30,341	0	0	0	73,109	168,639	258,344	1,214,616	904,561	672,270	512,777	1,004,232
C	868,683	770,792	839,100	959,849	1,112,958	1,090,277	1,042,117	612,500	145,300	537,057	877,945	1,039,209	550,532
D	195,915	188,864	174,050	76,915	0	32,976	33,476	396,107	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,090,093	989,997	1,013,150	1,036,764	1,112,958	1,196,362	1,245,232	1,292,070	1,249,738	1,466,899	1,550,215	1,551,986	1,554,764
NM	765,296	887,577	890,658	895,510	849,179	793,708	765,430	744,732	809,441	615,325	535,323	533,301	530,808
Total	1,855,389	1,877,574	1,903,808	1,932,274	1,962,137	1,990,070	2,010,662	2,036,802	2,059,179	2,082,224	2,085,538	2,085,287	2,085,572

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	930,498	1,222,911	1,208,059	1,229,559	1,166,014	1,249,310	1,077,116	995,533	1,005,592	1,212,311	1,121,925	1,229,669	1,231,175
B	0	49,675	0	0	0	98,927	100,428	102,701	0	106,799	107,225	0	0
C	78,464	0	0	0	96,851	0	0	0	104,617	0	0	0	0
D	0	0	92,470	94,600	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,017,962	1,272,586	1,295,529	1,327,159	1,262,865	1,349,237	1,177,544	1,098,234	1,140,209	1,299,110	1,229,148	1,229,669	1,231,175
NM	837,427	604,988	608,279	608,115	699,272	640,833	833,118	938,568	948,970	783,114	856,390	855,618	854,397
Total	1,855,389	1,877,574	1,903,808	1,935,274	1,962,137	1,990,070	2,010,662	2,036,802	2,089,179	2,082,224	2,085,538	2,085,287	2,085,572

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,017,962	1,272,586	1,295,528	1,324,158	1,262,864	1,348,236	1,177,548	1,098,233	1,110,208	1,319,110	1,229,147	1,229,669	1,231,175
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,017,962	1,272,586	1,295,526	1,324,158	1,262,864	1,348,236	1,177,548	1,095,233	1,110,208	1,319,110	1,229,147	1,229,689	1,231,175
NM	837,427	604,988	608,280	608,116	699,273	641,834	833,116	938,569	948,971	763,114	856,391	855,618	854,397
Total	1,855,389	1,877,574	1,903,808	1,935,274	1,962,137	1,990,070	2,010,662	2,036,802	2,089,179	2,082,224	2,085,538	2,085,287	2,085,572

NM – Not Monitored

Figure NM-1

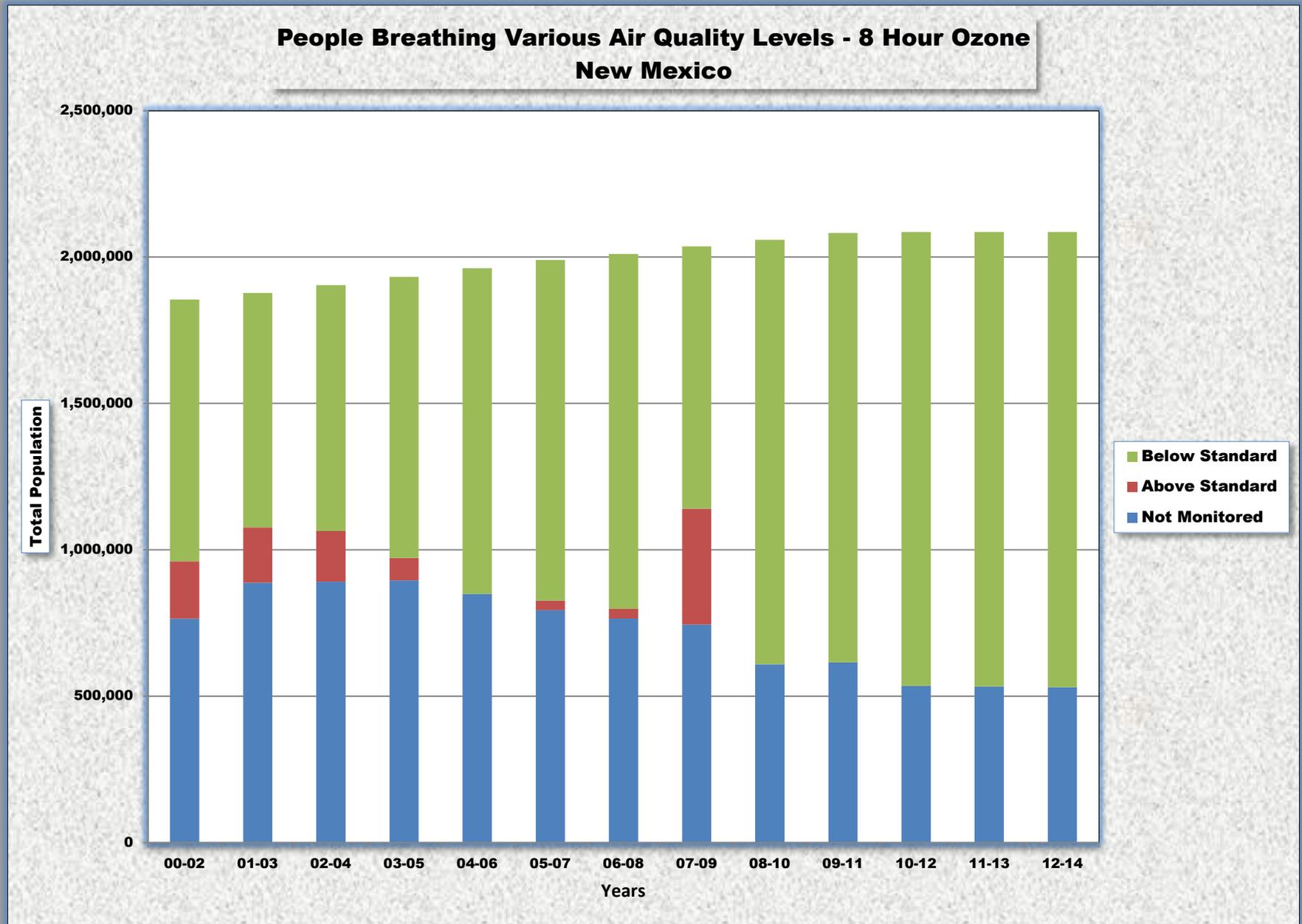


Figure NM-2

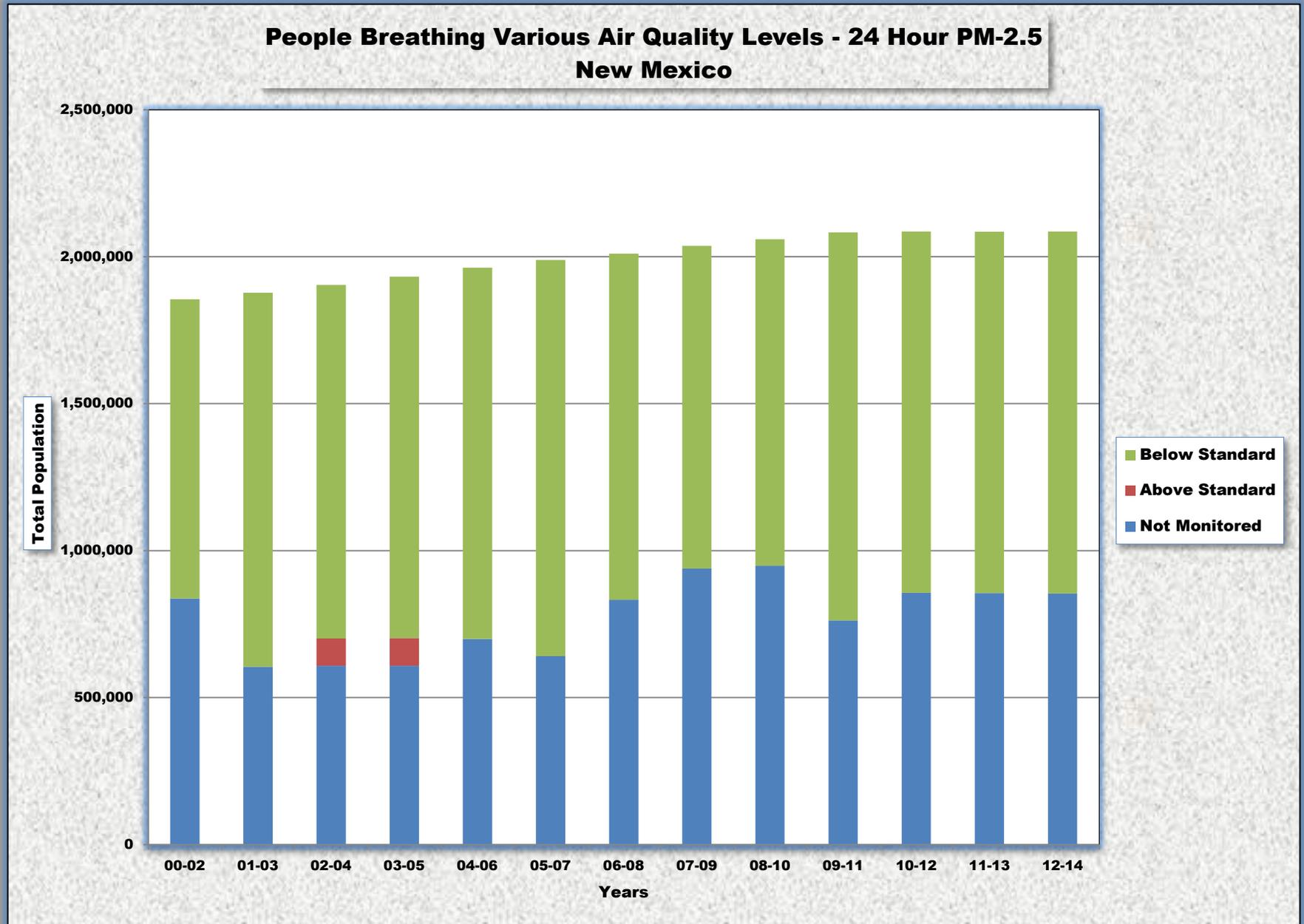
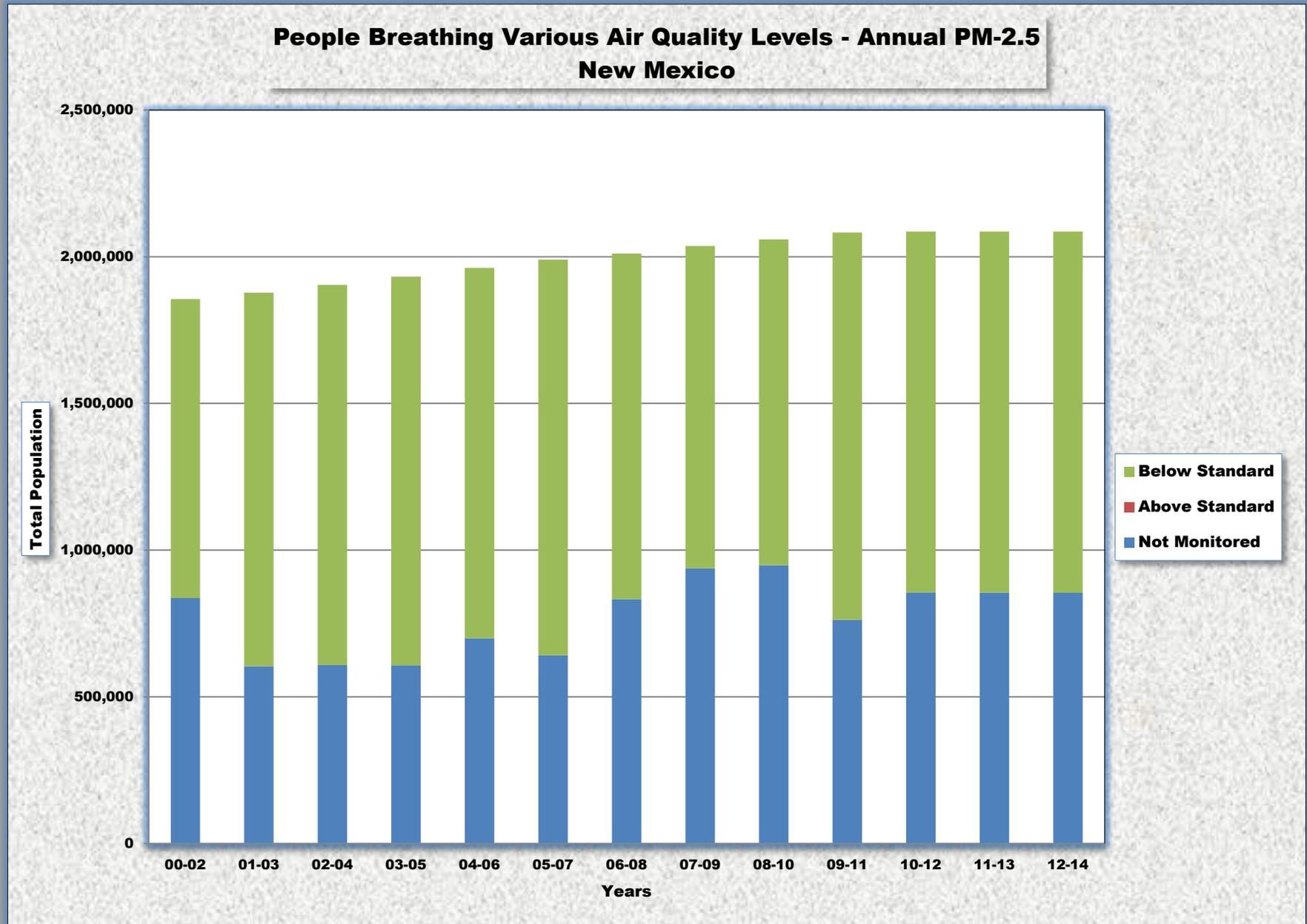


Figure NM-3



NEW YORK

Ozone

Significant progress has been made in ozone levels in New York. In the 2000 – 2002 time period, 2.3 million people (12.0%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 13.1 million people (66.4%). Figure NY-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in New York. In the 2000 – 2002 time period, approximately 8.5 million people (44.4%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 13.0 million people (65.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NY-2 shows the distribution of people by year.

Annual PM-2.5

Progress has been made in annual PM-2.5 levels in New York. In the 2000 – 2002 time period, approximately 12.3 million people (64.0%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 13.0 million people (65.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NY-3 shows the distribution of people by year.

NEW YORK

**Table NY-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Albany	308,171	0.066	B	N	18	A	7.0	A	Y
Bronx	1,438,159	0.071	C	N	24	A	10.5	B	Y
Chautauqua	132,053	0.071	C	N	ND	--	ND	--	--
Dutchess	296,579	0.069	C	N	ND	--	ND	--	--
Erie	922,835	0.071	C	N	21	A	8.7	A	N
Essex	38,679	0.067	B	Y	13	A	4.1	A	N
Hamilton	4,715	0.063	B	N	ND	--	ND	--	--
Herkimer	63,744	0.061	B	N	ND	--	ND	--	--
Jefferson	119,103	0.067	B	N	ND	--	ND	--	--
Kings	2,621,793	ND	--	--	22	A	9.3	A	N
Monroe	749,857	0.065	B	N	19	A	7.7	A	N
New York	1,636,268	0.067	B	N	24	A	10.1	B	Y
Niagara	213,525	0.069	C	N	ND	--	ND	--	--
Onondaga	468,196	0.067	B	N	16	A	6.8	A	N
Orange	376,099	0.061	B	N	20	A	7.4	A	N
Oswego	120,913	0.064	B	N	ND	--	ND	--	--
Putnam	99,487	0.067	B	N	ND	--	ND	--	--
Queens	2,321,580	0.072	C	N	22	A	8.2	A	N
Richmond	473,279	0.073	C	N	19	A	8.6	A	N
Rockland	323,866	0.072	C	N	ND	--	ND	--	--
Saratoga	224,921	0.063	B	N	ND	--	ND	--	--
Steuben	98,394	0.061	B	N	16	A	6.2	A	N
Suffolk	1,502,968	0.073	C	Y	20	A	7.7	A	N
Tompkins	104,691	0.065	B	N	ND	--	ND	--	--
Wayne	92,051	0.067	B	N	ND	--	ND	--	--
Westchester	972,634	0.075	C	N	ND	--	ND	--	--
Subtotal	15,724,560								
Not Monitored	4,021,667								
Total	19,746,227								

DV – Design Value

ND - No Data

MM – Multiple Monitors

NEW YORK

**Table NY-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	51,599	285,838	51,795	0	0
B	0	0	0	0	480,585	234,488	439,749	440,375	487,215	1,401,930	744,613	1,287,644	4,485,950
C	2,288,478	2,214,608	1,163,590	2,937,314	1,857,555	2,521,457	3,449,568	7,398,779	10,324,994	8,818,565	3,262,805	7,374,612	8,616,817
D	1,957,649	288,162	2,268,660	3,260,666	3,434,056	4,824,014	5,309,058	2,595,821	2,136,578	857,621	7,712,815	4,268,534	0
F	6,960,987	8,732,984	7,213,983	4,548,846	3,957,370	3,957,393	2,485,282	1,316,003	373,338	166,272	970,486	0	0
Subtotal	11,207,114	11,235,754	10,646,233	10,746,826	9,729,566	11,537,352	11,683,657	11,747,978	13,373,724	11,530,226	12,742,514	12,930,790	13,102,767
NM	7,930,686	7,940,185	8,525,334	8,385,784	9,375,065	7,594,983	7,528,779	7,559,088	6,004,378	7,934,971	6,827,747	6,720,337	6,643,460
Total	19,137,800	19,175,939	19,171,567	19,132,610	19,104,631	19,132,335	19,212,436	19,307,066	19,378,102	19,465,197	19,570,261	19,651,127	19,746,227

People Breathing Short-Term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	39,195	0	0	111,606	611,971	137,914	1,341,885	2,630,554	9,796,027	14,591,710	12,383,648	12,599,270	12,956,278
B	2,430,804	913,857	1,273,674	599,529	601,021	733,766	4,631,709	8,133,973	5,458,262	533,983	0	0	0
C	5,020,260	5,297,863	3,751,636	7,371,138	7,521,196	8,770,026	6,616,795	2,959,692	0	0	0	0	0
D	9,278,747	2,472,999	6,048,931	2,911,682	3,619,760	3,946,944	2,156,999	0	0	0	0	0	0
F	971,374	3,412,249	1,952,607	1,573,573	1,293,319	978,486	0	0	0	0	0	0	0
Subtotal	13,740,380	12,096,968	13,026,848	12,567,528	13,647,267	14,567,136	14,747,388	13,724,219	15,254,289	15,125,693	12,383,648	12,599,270	12,956,278
NM	5,397,420	7,078,971	6,144,719	6,565,082	5,457,364	4,565,199	4,465,048	5,582,847	4,123,813	4,339,504	7,186,613	7,051,857	6,789,949
Total	19,137,800	19,175,939	19,171,567	19,132,610	19,104,631	19,132,335	19,212,436	19,307,066	19,378,102	19,465,197	19,570,261	19,651,127	19,746,227

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	2,999,672	1,337,176	5,025,310	3,882,042	4,956,586	8,038,646	9,104,666	8,964,906	14,461,363	15,125,693	12,383,648	8,588,388	11,146,353
B	4,490,587	4,420,420	3,136,849	4,200,231	4,621,533	1,824,591	4,167,467	4,071,182	792,937	0	0	4,010,882	1,264,502
C	4,760,286	5,885,248	4,341,373	3,436,206	2,830,675	2,968,458	681,744	688,131	0	0	0	0	545,423
D	452,913	454,124	1,046,631	1,079,049	1,238,474	1,505,620	793,511	0	0	0	0	0	0
F	1,036,921	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	13,740,379	12,096,968	13,550,163	12,567,528	13,647,268	14,337,315	14,747,388	13,724,219	15,254,290	15,125,693	12,383,648	12,599,270	12,956,278
NM	5,397,421	7,078,971	5,621,404	6,565,082	5,457,363	4,795,020	4,465,048	5,582,847	4,123,812	4,339,504	7,186,613	7,051,857	6,789,949
Total	19,137,800	19,175,939	19,171,567	19,132,610	19,104,631	19,132,335	19,212,436	19,307,066	19,378,102	19,465,197	19,570,261	19,651,127	19,746,227

NM – Not Monitored

Figure NY-1

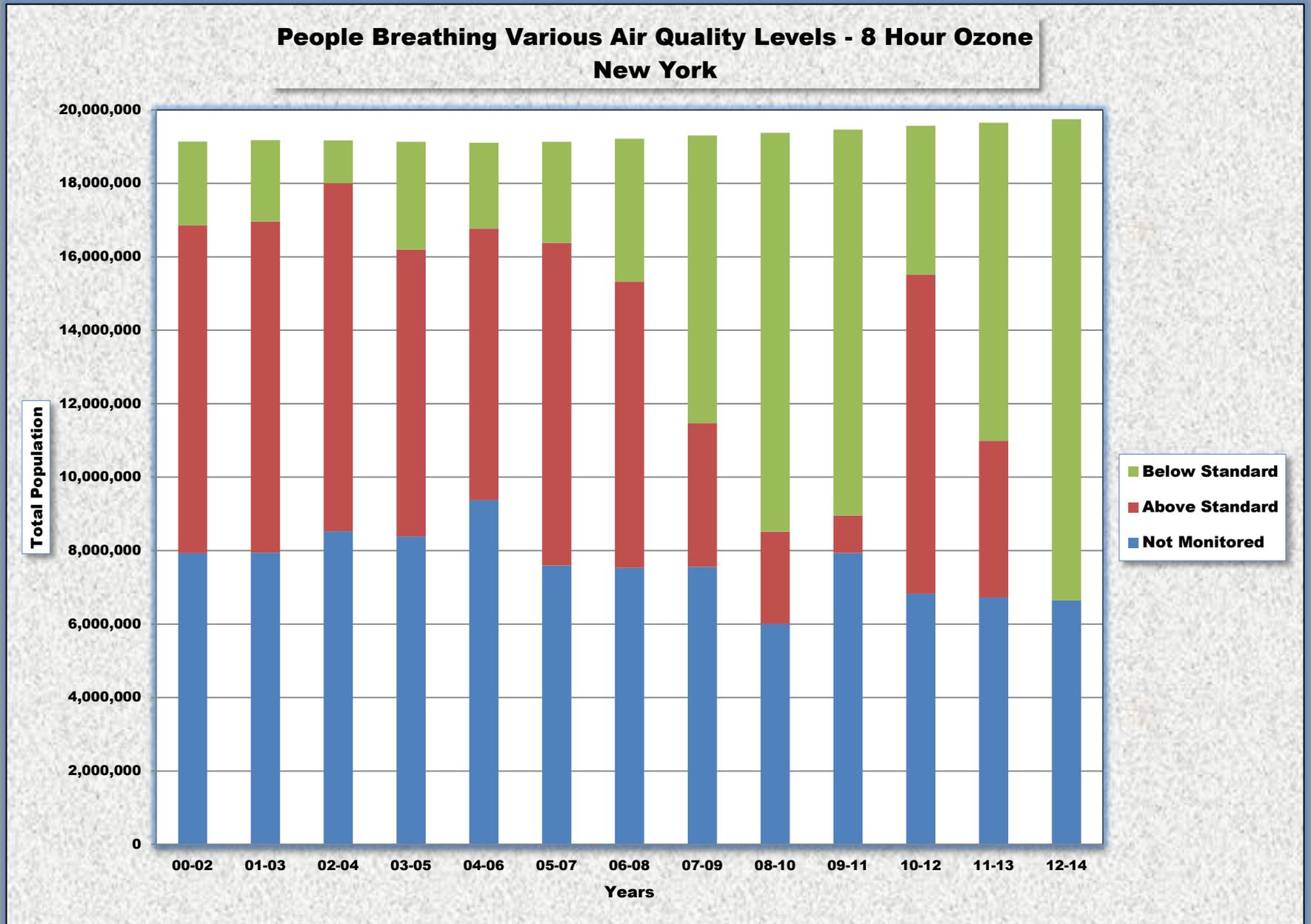


Figure NY-2

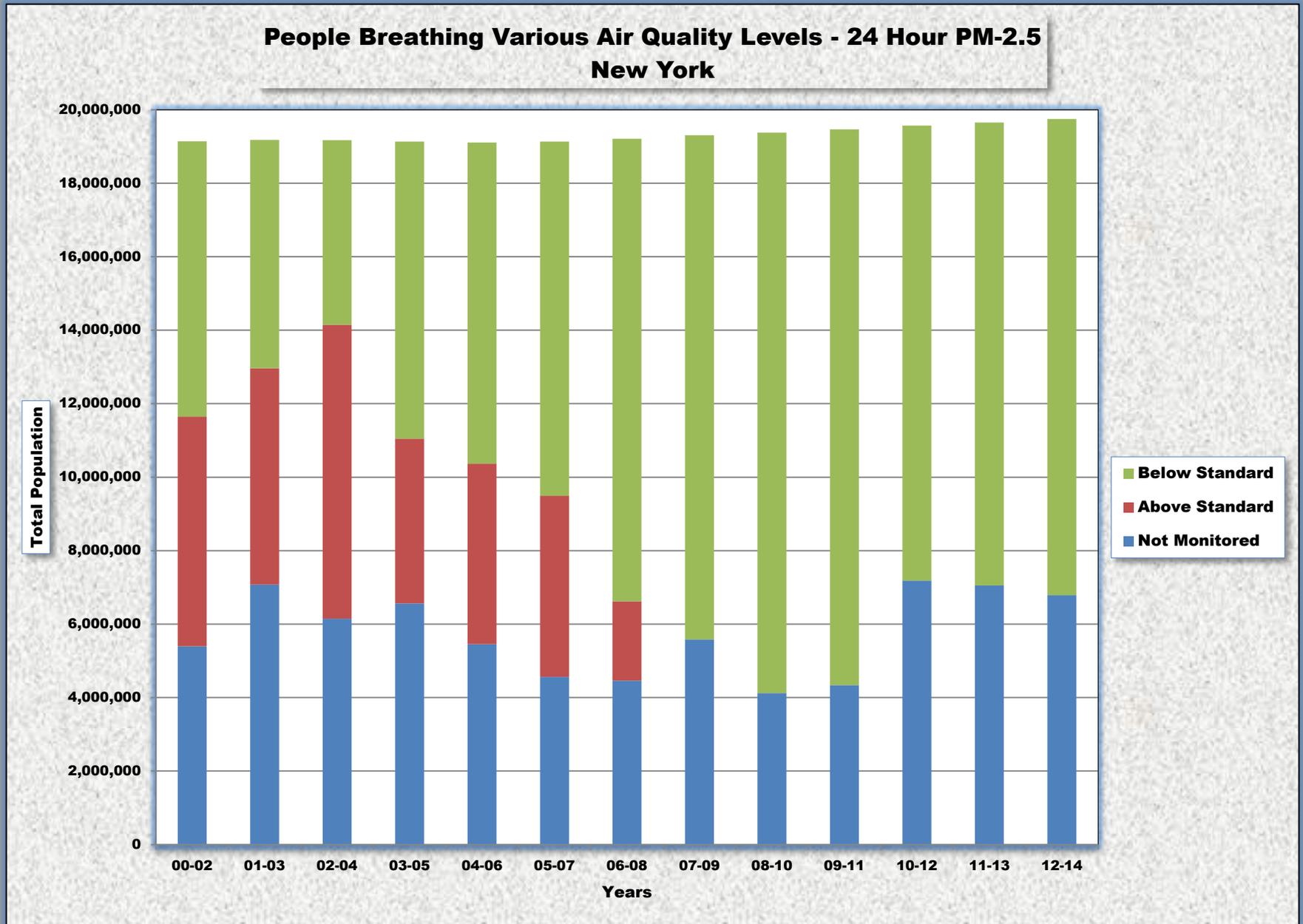
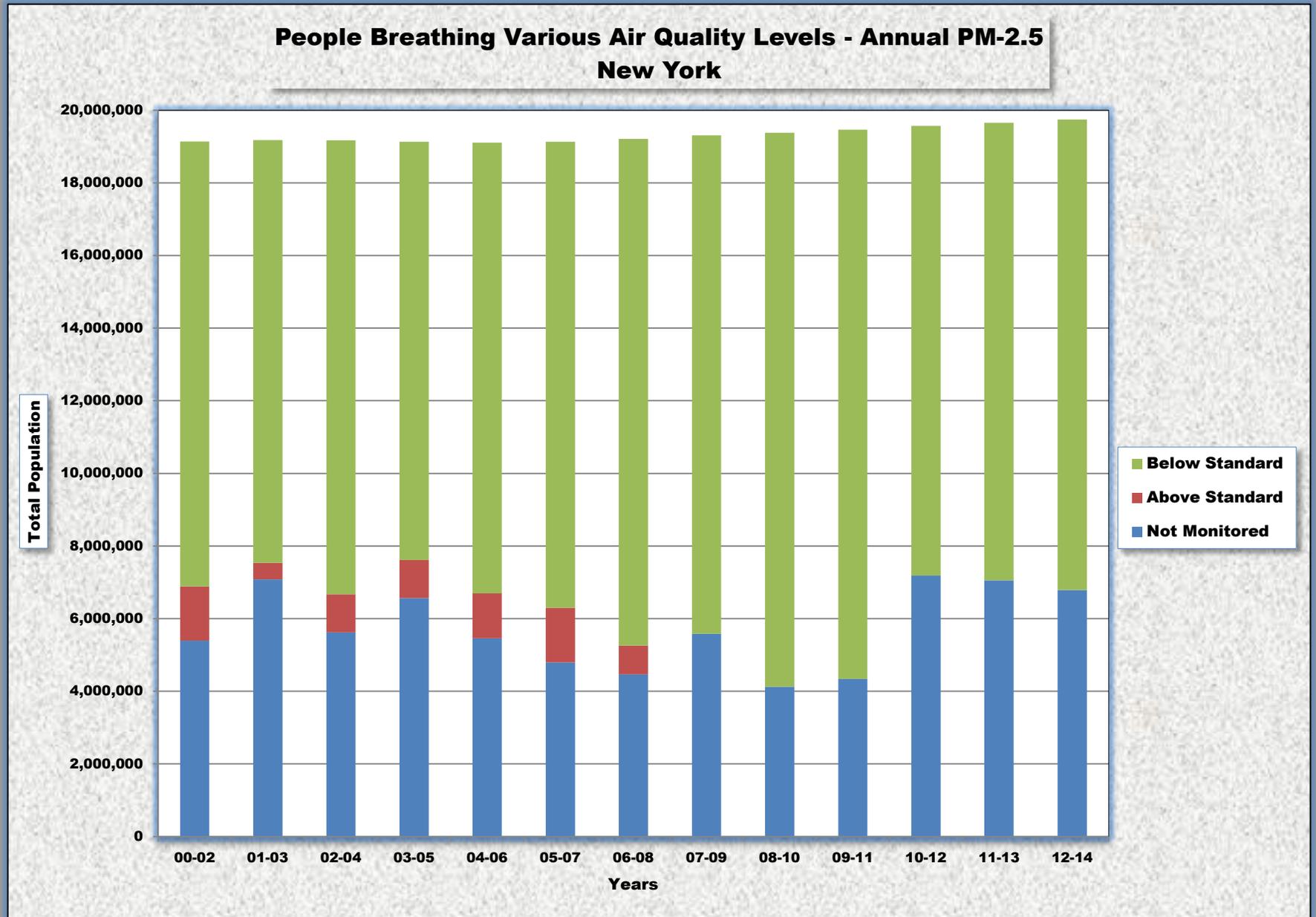


Figure NY-3



NORTH CAROLINA

Ozone

Significant progress has been made in ozone levels in North Carolina. In the 2000 – 2002 time period, 13 thousand people (0.2%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 5.6 million people (56.6%). Figure NC-1 shows the distribution of people by year.

24-Hour PM-2.5

Progress has been made in 24-hour PM-2.5 levels in North Carolina. In the 2000 – 2002 time period, approximately 2.5 million people (30.5%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 5.8 million people (58.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NC-2 shows the distribution of people by year.

Annual PM-2.5

Progress has been made in annual PM-2.5 levels in North Carolina. In the 2000 – 2002 time period, approximately 2.2 million people (26.4%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 5.8 million people (58.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure NC-3 shows the distribution of people by year.

NORTH CAROLINA

**Table NC-1
2012 - 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Alamance	155,792	ND	--	--	18	A	8.4	A	N
Alexander	37,392	0.064	B	N	ND	--	ND	--	--
Avery	17,773	0.062	B	Y	ND	--	ND	--	--
Buncombe	250,539	0.064	B	N	15	A	8.2	A	N
Caldwell	81,484	0.062	B	N	ND	--	ND	--	--
Caswell	23,082	0.068	C	N	21	A	10.2	B	N
Catawba	54,534	ND	--	--	18	A	9.1	A	N
Chatham	68,698	0.059	A	N	16	A	7.4	A	N
Cumberland	326,328	0.064	B	Y	18	A	8.9	A	N
Davidson	164,072	ND	--	--	20	A	9.8	B	N
Davie	41,434	0.067	B	N	ND	--	ND	--	--
Duplin	59,882	ND	--	--	17	A	7.7	A	N
Durham	294,460	0.066	B	N	18	A	8.1	A	N
Edgecombe	54,933	0.065	B	N	ND	--	ND	--	--
Forsyth	365,298	0.067	B	Y	18	A	8.7	A	Y
Franklin	62,860	0.064	B	N	ND	--	ND	--	--
Gaston	211,127	ND	--	--	18	A	8.5	A	N
Graham	8,644	0.064	B	N	ND	--	ND	--	--
Granville	58,500	0.066	B	N	ND	--	ND	--	--
Guilford	512,119	0.068	C	N	18	A	8.4	A	Y
Haywood	59,471	0.064	B	Y	19	A	8.7	A	N
Jackson	40,981	0.069	C	N	15	A	7.6	A	N
Johnston	181,423	0.066	B	N	17	A	7.6	A	N
Lenoir	58,485	0.065	B	N	ND	--	ND	--	--
Lincoln	79,829	0.068	C	N	ND	--	ND	--	--
McDowell	44,965	ND	--	--	16	A	8.7	A	N
Macon	33,875	0.062	B	N	ND	--	ND	--	--
Martin	23,454	0.064	B	N	18	A	7.9	A	Y
Mecklenburg	1,012,539	0.069	C	Y	19	A	8.9	A	Y
Mitchell	15,311	ND	--	--	16	A	8.1	A	N
Montgomery	27,395	0.063	B	N	16	A	8.0	A	N
New Hanover	216,298	0.063	B	N	15	A	6.6	A	N
Person	39,112	0.066	B	N	ND	--	ND	--	--
Pitt	175,354	0.065	B	N	16	A	7.6	A	N
Robeson	134,760	ND	--	--	17	A	8.4	A	N
Rockingham	91,696	0.067	B	N	ND	--	ND	--	--
Rowan	138,630	0.068	C	N	18	A	9.1	A	N
Swain	14,274	0.057	A	Y	18	A	8.0	A	N
Union	218,568	0.068	C	N	ND	--	ND	--	--
Wake	998,691	0.065	B	Y	20	A	9.6	B	Y
Watauga	52,560	ND	--	--	14	A	7.1	A	N
Wayne	124,456	ND	--	--	21	A	10.3	B	Y
Yancey	17,614	0.066	B	N	ND	--	ND	--	--
Subtotal	6,648,692								
Not Monitored	3,295,272								
Total	9,943,964								

DV - Design Value

ND - No Data

MM - Multiple Monitors

NORTH CAROLINA

**Table NC-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	14,058	83,272
B	0	0	0	0	13,693	13,819	31,896	13,933	51,457	825,941	432,513	1,101,366	3,556,337
C	13,120	0	191,602	703,108	668,580	322,852	922,056	868,496	2,135,599	3,496,621	3,191,358	3,775,213	1,991,944
D	339,945	848,523	1,262,425	2,224,000	1,872,942	2,386,354	2,983,506	1,960,859	1,239,919	1,013,393	1,141,138	660,651	0
F	4,111,231	3,819,255	3,223,817	1,243,981	688,383	1,071,942	729,715	441,463	0	0	626,021	0	0
Subtotal	4,464,296	4,667,778	4,677,844	4,171,089	3,243,598	3,794,967	4,667,173	3,284,751	3,426,975	5,335,845	5,411,030	5,551,288	5,631,553
NM	3,861,905	3,754,723	3,875,308	4,534,318	5,673,672	5,323,070	4,642,276	6,164,815	6,108,508	4,320,456	4,341,043	4,296,772	4,312,411
Total	8,326,201	8,422,501	8,553,152	8,705,407	8,917,270	9,118,037	9,309,449	9,449,566	9,535,483	9,656,401	9,752,073	9,848,060	9,943,964

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	401,517	414,394	755,396	728,099	699,365	520,163	2,126,158	4,595,271	4,956,298	5,147,309	5,197,905	5,673,534	5,846,493
B	1,019,171	2,333,693	2,292,931	3,274,863	2,619,817	3,031,341	1,220,720	0	0	0	0	0	0
C	1,121,940	1,414,707	2,016,501	861,586	567,990	504,355	0	0	0	0	0	0	0
D	520,245	194,041	0	148,629	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	3,062,873	4,356,835	5,064,828	5,013,177	3,887,172	4,055,859	3,346,878	4,595,271	4,955,298	5,147,309	5,197,905	5,673,534	5,846,493
NM	5,263,328	4,065,666	3,488,324	3,692,230	5,030,098	5,062,178	5,962,571	4,854,295	4,580,185	4,509,092	4,554,168	4,174,526	4,097,471
Total	8,326,201	8,422,501	8,553,152	8,705,407	8,917,270	9,118,037	9,309,449	9,449,566	9,535,483	9,656,401	9,752,073	9,848,060	9,943,964

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	168,147	297,176	587,288	706,621	691,216	508,573	748,325	3,328,006	4,955,298	5,147,309	5,197,905	4,868,160	5,097,766
B	191,262	1,175,441	861,377	1,508,571	888,672	719,818	1,849,467	1,267,265	0	0	0	805,375	686,499
C	1,838,595	2,585,807	3,314,968	2,227,697	2,124,851	2,661,751	749,086	0	0	0	0	0	62,228
D	713,573	298,410	301,195	570,288	182,434	165,717	0	0	0	0	0	0	0
F	151,296	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	3,062,873	4,356,834	5,064,828	5,013,177	3,887,173	4,055,859	3,346,878	4,595,271	4,955,298	5,147,309	5,197,905	5,673,535	5,846,493
NM	5,263,328	4,065,667	3,488,324	3,692,230	5,030,097	5,062,178	5,962,571	4,854,295	4,580,185	4,509,092	4,554,168	4,174,525	4,097,471
Total	8,326,201	8,422,501	8,553,152	8,705,407	8,917,270	9,118,037	9,309,449	9,449,566	9,535,483	9,656,401	9,752,073	9,848,060	9,943,964

NM – Not Monitored

Figure NC-1

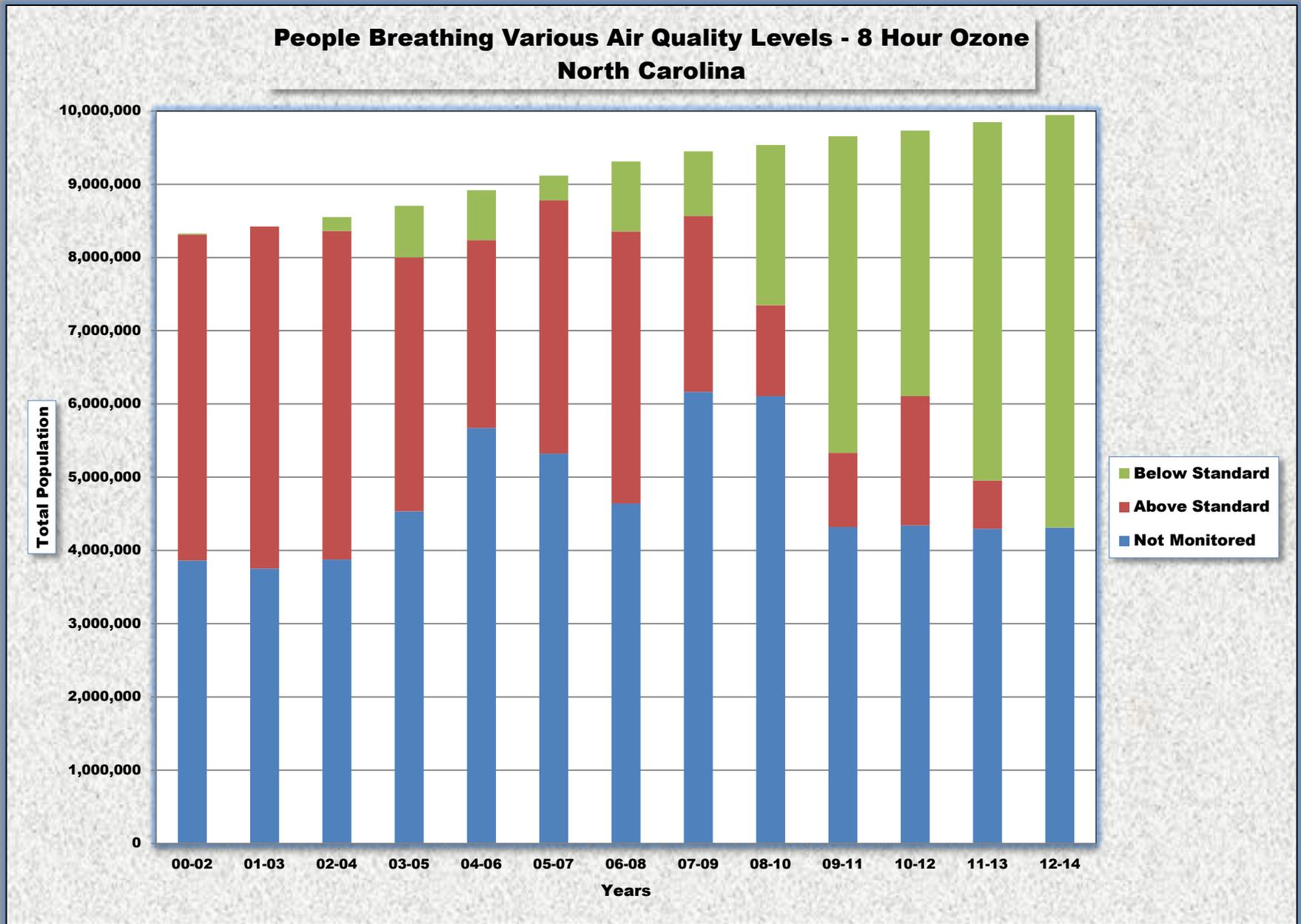


Figure NC-2

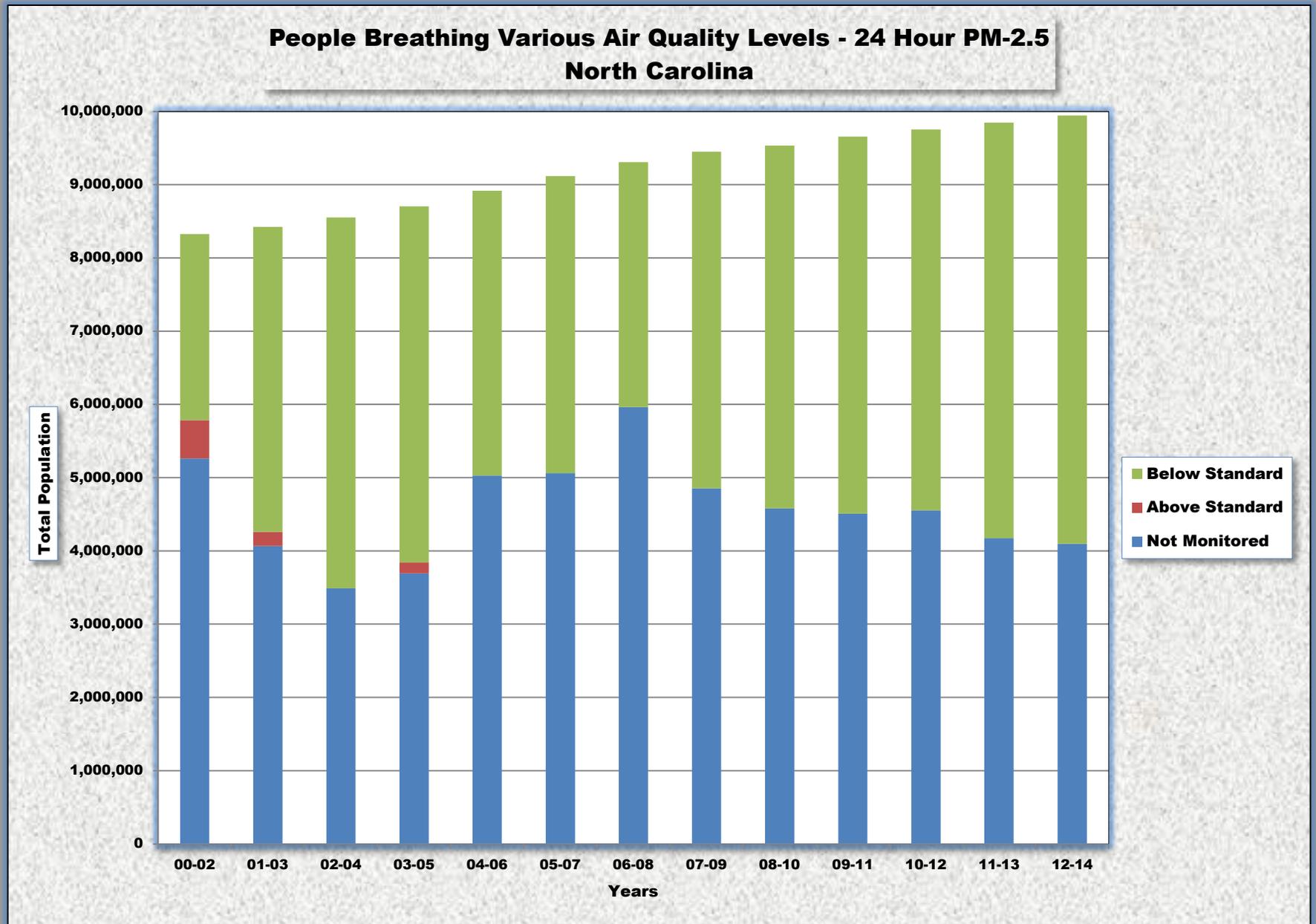
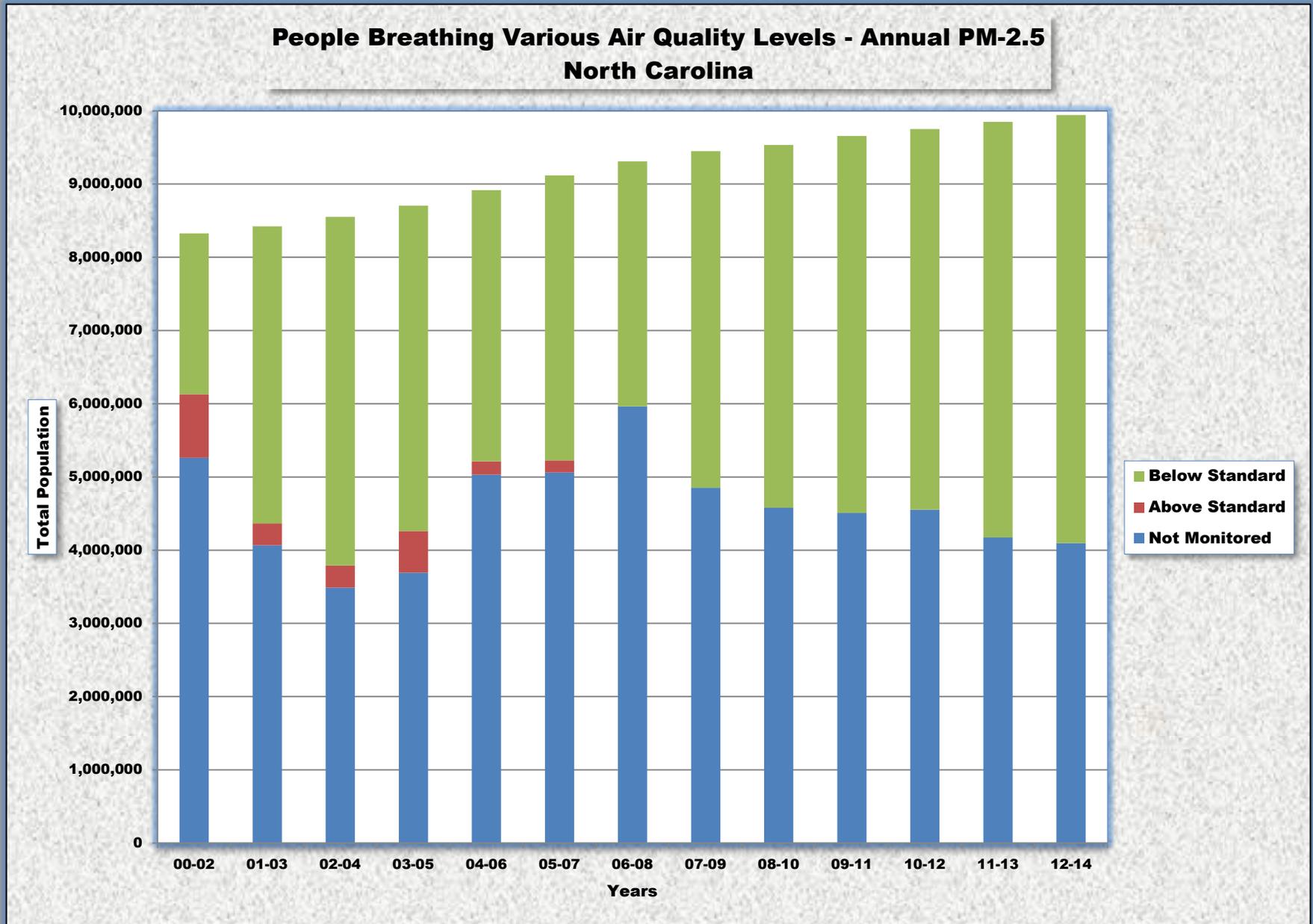


Figure NC-3



NORTH DAKOTA

Ozone

Ozone levels in North Dakota have historically been better than the standard. In the 2000 – 2002 time period, 0.14 million people (21.4%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 0.29 million people (38.8%). The remainder of the population lived in counties where ozone was not measured. Figure ND-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in North Dakota have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.21 million people (32.7%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 0.29 million people (38.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure ND-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in North Dakota have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.21 million people (32.7%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 0.29 million people (38.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure ND-3 shows the distribution of people by year.

Table ND-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Billings	901	0.056	A	N	11	A	4.4	A	N
Burke	2,245	0.057	A	N	15	A	5.6	A	N
Burleigh	90,503	0.059	A	N	15	A	5.8	A	Y
Cass	167,005	0.060	B	N	18	A	6.6	A	Y
Dunn	4,399	0.057	A	N	14	A	4.8	A	N
McKenzie	10,996	0.057	A	N	14	A	4.6	A	N
Mercer	8,746	0.058	A	N	16	A	5.6	A	Y
Oliver	1,850	0.059	A	N	16	A	5.2	A	N
Subtotal	286,645								
Not Monitored	452,837								
Total	739,482								

DV – Design Value

ND - No Data

MM – Multiple Monitors

NORTH DAKOTA

**Table ND-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	9,390	0	1,925	13,695	15,579	5,362	228,340	243,703	242,139	253,627	98,675	278,408	119,640
B	127,119	141,383	147,245	140,902	144,808	158,106	16,807	6,955	8,328	2,033	164,643	0	167,005
C	0	0	34,443	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	136,509	141,383	183,613	154,597	160,387	163,468	245,147	250,658	250,467	255,660	263,318	278,408	286,645
NM	501,659	497,434	461,092	491,492	489,035	489,354	412,422	414,310	422,124	428,272	436,310	444,985	452,837
Total	638,168	638,817	644,705	646,089	649,422	652,822	657,569	664,968	672,591	683,932	699,628	723,393	739,482

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	208,882	218,385	222,955	226,458	229,057	227,902	232,031	137,180	240,293	244,778	251,322	275,534	286,645
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	208,882	218,385	222,955	226,458	229,037	227,902	232,031	237,180	240,293	244,778	251,322	275,534	286,645
NM	429,286	420,432	421,750	419,631	420,385	424,920	425,538	427,788	432,298	439,154	448,306	447,859	452,837
Total	638,168	638,817	644,705	646,089	649,422	652,822	657,569	664,968	672,591	683,932	699,628	723,393	739,482

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	208,882	218,385	222,955	226,458	229,057	227,902	232,031	137,180	240,293	244,778	251,322	275,534	286,645
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	208,882	218,385	222,955	226,458	229,037	227,902	232,031	237,180	240,293	244,778	251,322	275,534	286,645
NM	429,286	420,432	421,750	419,631	420,385	424,920	425,538	427,788	432,298	439,154	448,306	447,859	452,837
Total	638,168	638,817	644,705	646,089	649,422	652,422	657,569	664,968	672,591	583,932	699,628	723,393	739,482

NM – Not Monitored

Figure ND-1

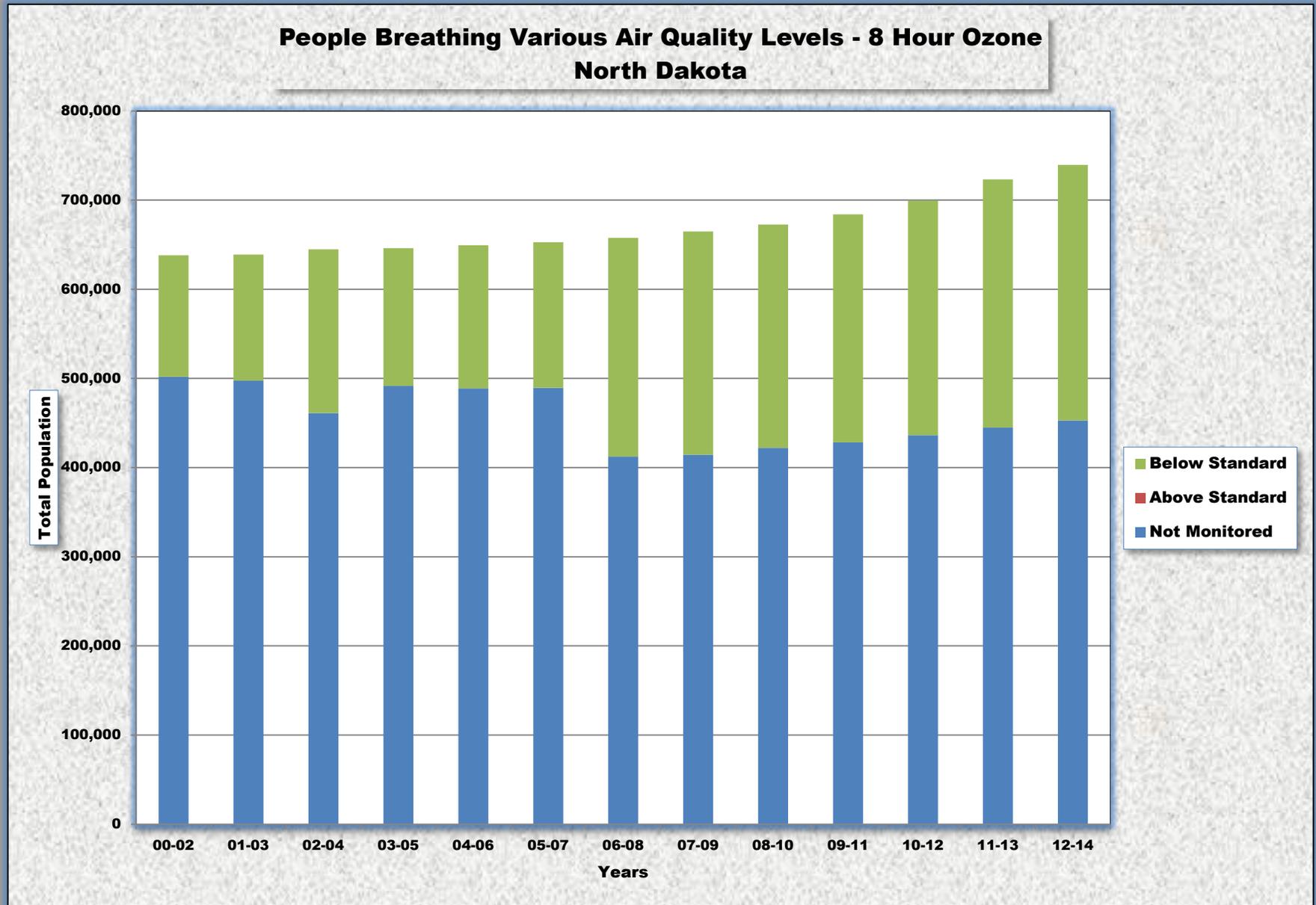


Figure ND-2

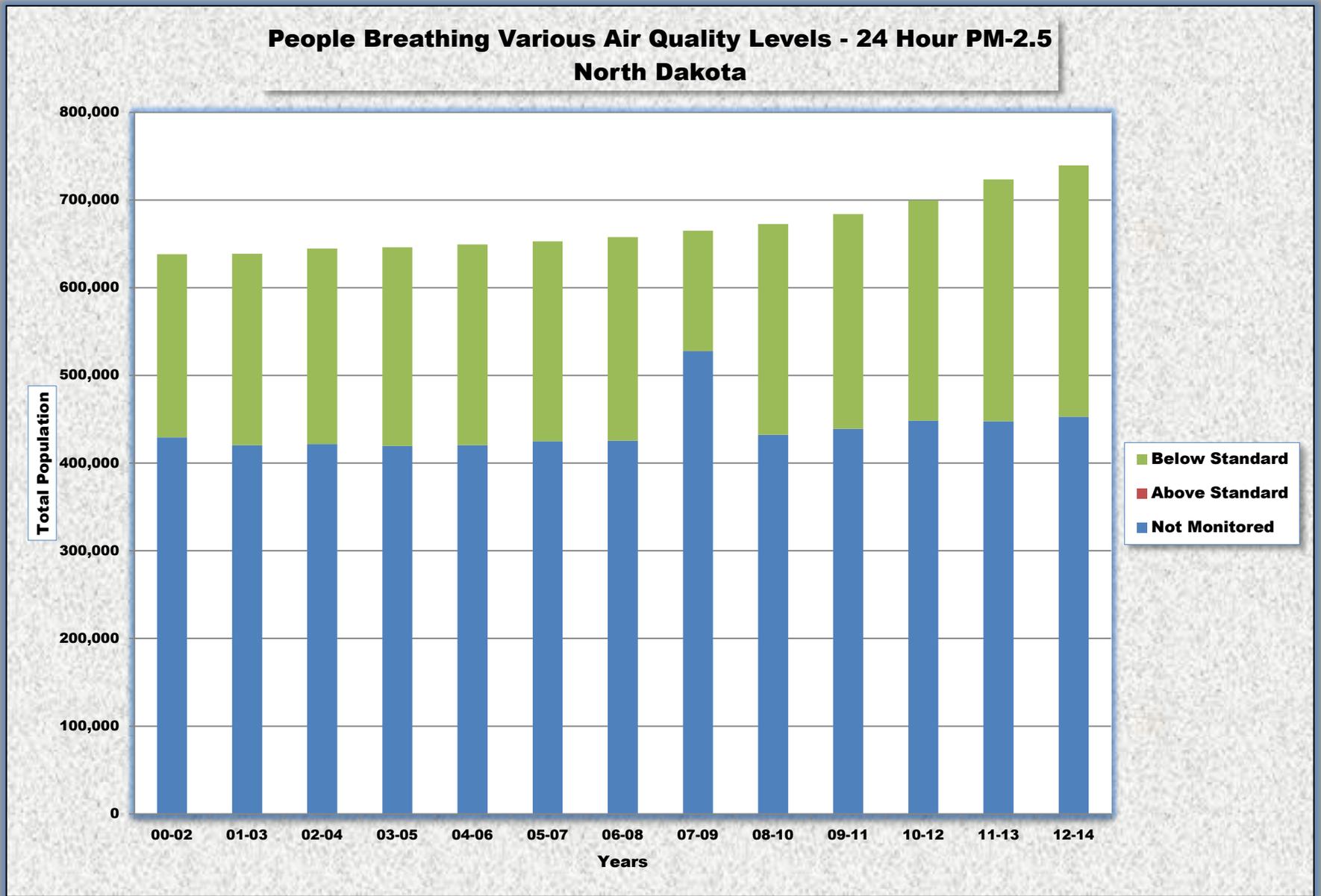
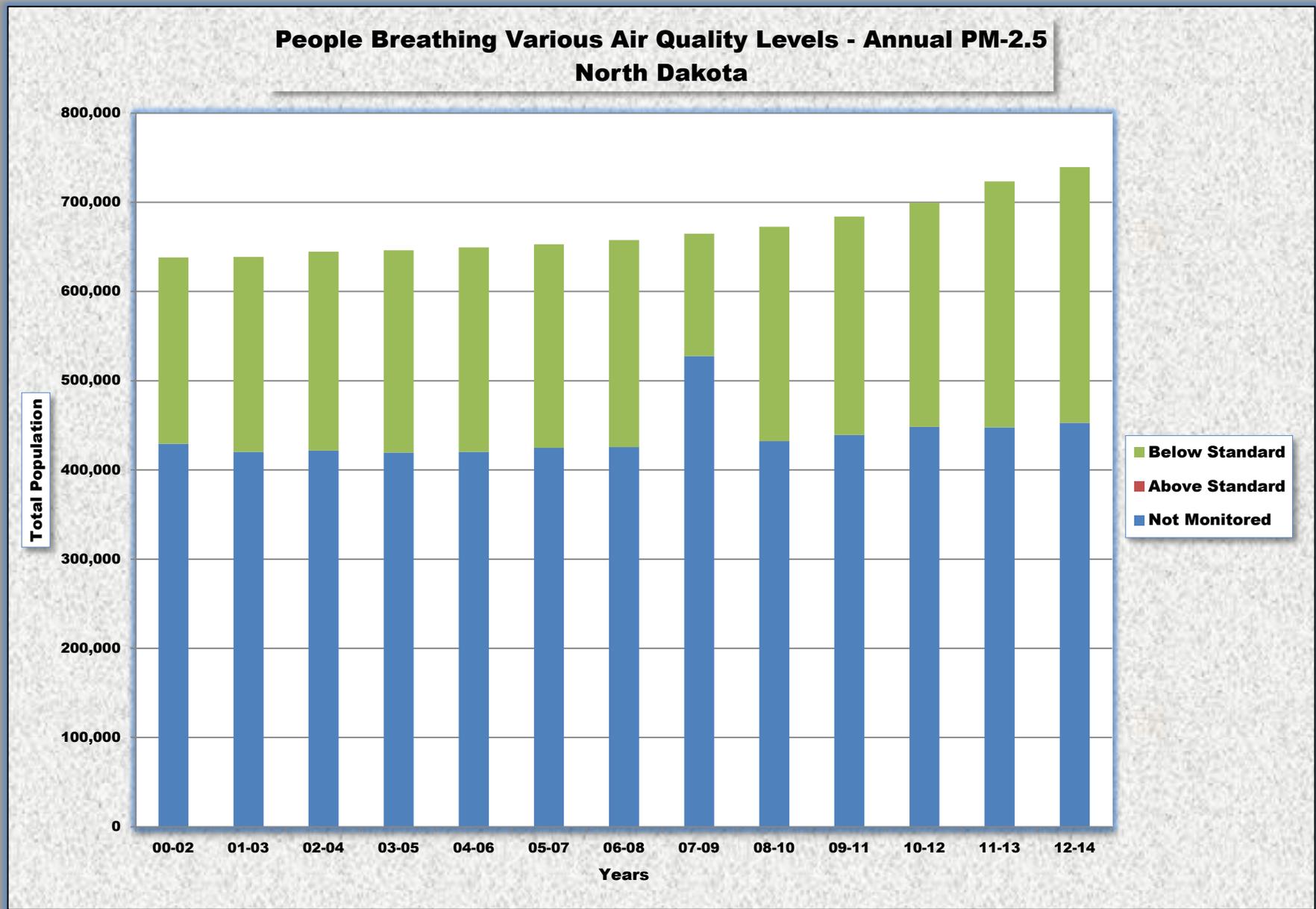


Figure ND-3



OHIO

Ozone

Significant progress has been made in ozone levels in Ohio. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 8.8 million people (75.8%). Figure OH-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Ohio. In the 2000 – 2002 time period, 0.6 million people (5.2%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 – 2014 this was approximately 7.0 million people (60.5%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure OH-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in Ohio. In the 2000 – 2002 time period, approximately 1.6 million people (13.7%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 6.3 million people (54.2%). Figure OH-3 shows the distribution of people by year.

OHIO

**Table OH-1
2012 – 2014**

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Allen	105,040	0.071	C	N	23	A	9.7	B	N
Ashtabula	99,175	0.072	C	N	ND	--	ND	--	--
Athens	64,713	ND	--	--	17	A	8.2	A	N
Butler	374,158	0.073	C	Y	24	A	11.7	C	Y
Clark	136,554	0.069	C	Y	23	A	10.3	B	N
Clermont	201,560	0.075	C	N	ND	--	ND	--	--
Clinton	41,835	0.073	C	N	ND	--	ND	--	--
Cuyahoga	1,259,828	0.069	C	Y	25	A	11.2	C	Y
Delaware	189,113	0.071	C	N	ND	--	ND	--	--
Fayette	28,800	0.070	C	N	ND	--	ND	--	--
Franklin	1,231,393	0.072	C	Y	22	A	10.2	B	Y
Geauga	94,295	0.070	C	N	ND	--	ND	--	--
Greene	163,820	0.069	C	N	21	A	9.8	B	N
Hamilton	806,631	0.073	C	Y	23	A	10.7	B	Y
Jefferson	67,694	0.070	C	N	26	A	11.5	C	N
Knox	61,167	0.069	C	N	ND	--	ND	--	--
Lake	229,230	0.074	C	Y	19	A	8.7	A	N
Lawrence	61,623	0.065	B	Y	18	A	9.2	A	N
Licking	169,390	0.069	C	N	ND	--	ND	--	--
Lorain	304,216	0.069	C	N	22	A	9.1	A	N
Lucas	435,286	0.069	C	Y	23	A	10.0	B	Y
Madison	43,918	0.071	C	N	ND	--	ND	--	--
Mahoning	233,204	0.068	C	N	23	A	10.5	B	N
Medina	176,029	0.067	B	N	21	A	9.0	A	N
Miami	103,900	0.071	C	N	ND	--	ND	--	--
Montgomery	533,116	0.072	C	N	ND	--	ND	--	--
Noble	14,363	0.066	B	N	ND	--	ND	--	--
Portage	161,882	0.064	B	N	20	A	9.4	A	N
Preble	41,586	0.069	C	N	ND	--	ND	--	--
Scioto	77,258	ND	--	--	18	A	9.0	A	N
Stark	375,736	0.067	B	Y	24	A	11.2	C	Y
Summit	541,943	0.062	B	N	22	A	10.3	B	Y
Trumbull	205,175	0.069	C	Y	22	A	10.0	B	N
Warren	221,659	0.072	C	N	ND	--	ND	--	--
Washington	61,213	0.067	B	N	ND	--	ND	--	--
Wood	129,590	0.068	C	N	ND	--	ND	--	--
Subtotal	9,046,093								
Not Monitored	2,548,070								
Total	11,594,163								

DV – Design Value

ND - No Data

MM – Multiple Monitors

OHIO

Table OH-2 People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	31,399	0	0	0	0	0	0	0	0
B	0	0	0	31,238	0	0	0	0	308,691	940,881	177,054	897,221	1,685,088
C	0	0	31,085	960,897	2,240,946	841,848	2,641,084	4,659,552	7,174,535	5,307,357	3,823,308	4,859,182	7,104,419
D	1,214,959	527,048	1,108,671	4,674,394	5,657,698	5,325,206	3,318,111	3,475,620	1,560,341	2,310,567	3,972,845	3,255,436	114,615
F	7,191,938	8,001,280	2,890,544	3,058,136	804,145	2,580,356	695,860	0	0	0	114,791	0	0
Subtotal	8,406,897	8,528,328	4,030,300	8,724,665	8,734,188	8,747,410	6,655,055	8,135,072	9,043,567	8,558,802	8,087,998	9,011,849	8,904,122
NM	3,000,992	2,906,460	7,421,951	2,738,655	2,747,025	2,753,058	4,860,336	3,393,824	2,492,937	2,986,149	3,456,227	2,558,969	2,690,041
Total	11,407,889	11,434,788	11,452,251	11,463,320	11,481,213	11,500,468	11,515,391	11,528,896	11,536,504	11,544,951	11,544,225	11,570,808	11,594,163

People Breathing Short-Term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	450,167	2,271,399	2,284,841	6,391,038	6,977,279	6,801,442
B	195,928	63,527	42,613	0	0	0	2,774,206	4,620,242	3,531,216	3,526,965	1,054,444	421,051	209,971
C	391,855	329,709	2,263,539	1,657,687	1,658,837	2,087,459	3,959,435	1,177,593	897,598	693,347	0	0	0
D	874,932	2,644,204	3,242,058	2,762,579	2,759,243	4,286,736	553,492	183,583	375,586	375,987	0	0	0
F	4,968,225	4,120,241	1,518,010	2,628,255	2,617,664	474,987	0	0	0	0	0	0	0
Subtotal	6,430,940	7,157,981	7,066,220	7,048,521	7,035,724	6,849,182	7,287,131	6,431,485	6,875,799	6,880,240	7,445,482	7,398,330	7,011,413
NM	4,976,949	4,276,807	4,386,031	4,414,799	4,445,489	4,651,286	4,228,260	5,097,411	4,660,705	4,664,711	4,098,743	4,172,478	4,582,750
Total	11,407,889	11,434,788	11,452,251	11,463,320	11,481,213	11,500,468	11,515,391	11,528,896	11,536,504	11,544,951	11,544,225	11,570,808	11,594,163

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	364,360	1,105,918	2,271,399	4,370,139	4,803,847	597,365	1,494,894
B	0	436,370	974,959	439,159	370,640	362,711	3,047,142	2,870,421	3,531,216	2,909,893	2,841,634	2,480,215	3,845,256
C	1,557,259	1,519,066	2,514,153	2,056,465	3,865,443	3,774,574	3,106,716	2,455,246	697,598	695,232	0	2,597,264	947,810
D	1,239,275	2,919,943	2,653,727	2,775,968	1,677,775	1,848,530	768,914	0	375,586	0	0	1,599,729	629,914
F	3,634,406	2,282,602	923,381	1,776,929	730,661	669,020	0	0	0	0	0	123,757	93,539
Subtotal	6,430,940	7,157,981	7,066,220	7,048,521	6,644,519	6,654,835	7,288,132	6,431,485	6,875,799	7,975,264	7,445,481	7,398,330	7,011,413
NM	4,976,949	4,276,807	4,386,031	4,414,799	4,836,694	4,845,633	4,227,259	5,097,411	4,660,705	3,569,687	4,098,744	4,172,478	4,582,750
Total	11,407,889	11,434,788	11,452,251	11,463,320	11,481,213	11,500,468	11,515,391	11,528,896	11,536,504	11,544,951	11,544,225	11,570,808	11,594,163

NM – Not Monitored

Figure OH-1

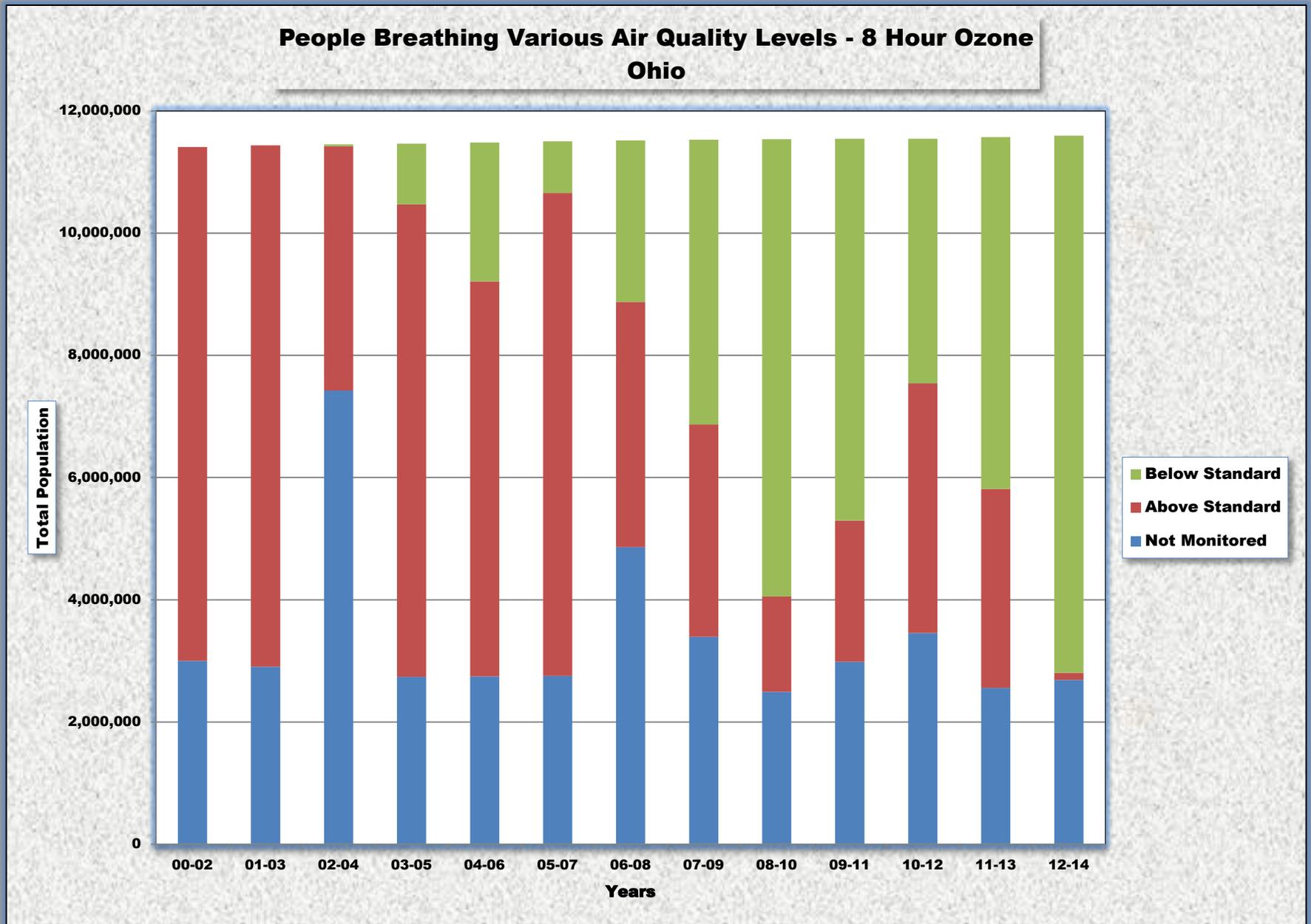


Figure OH-2

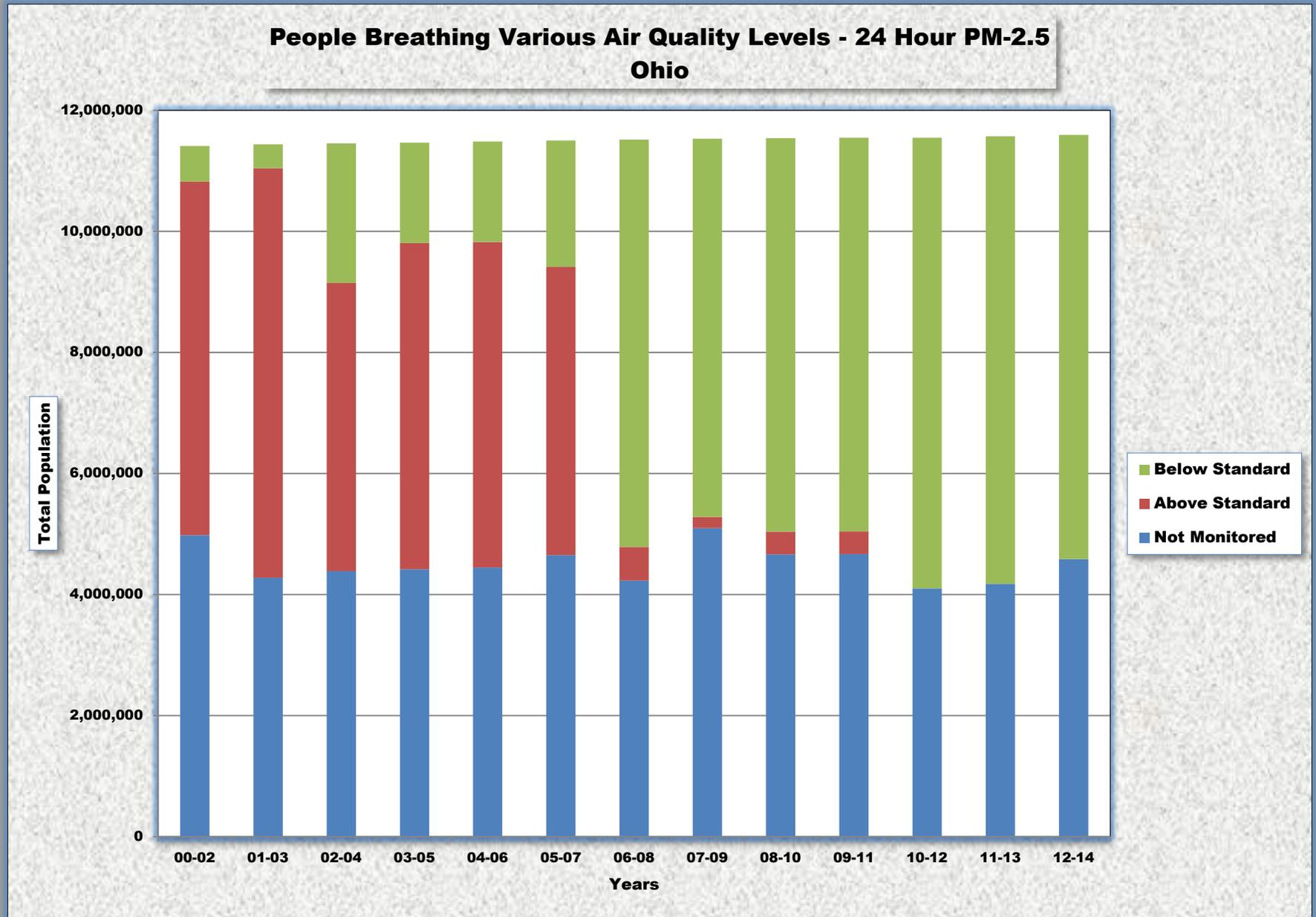
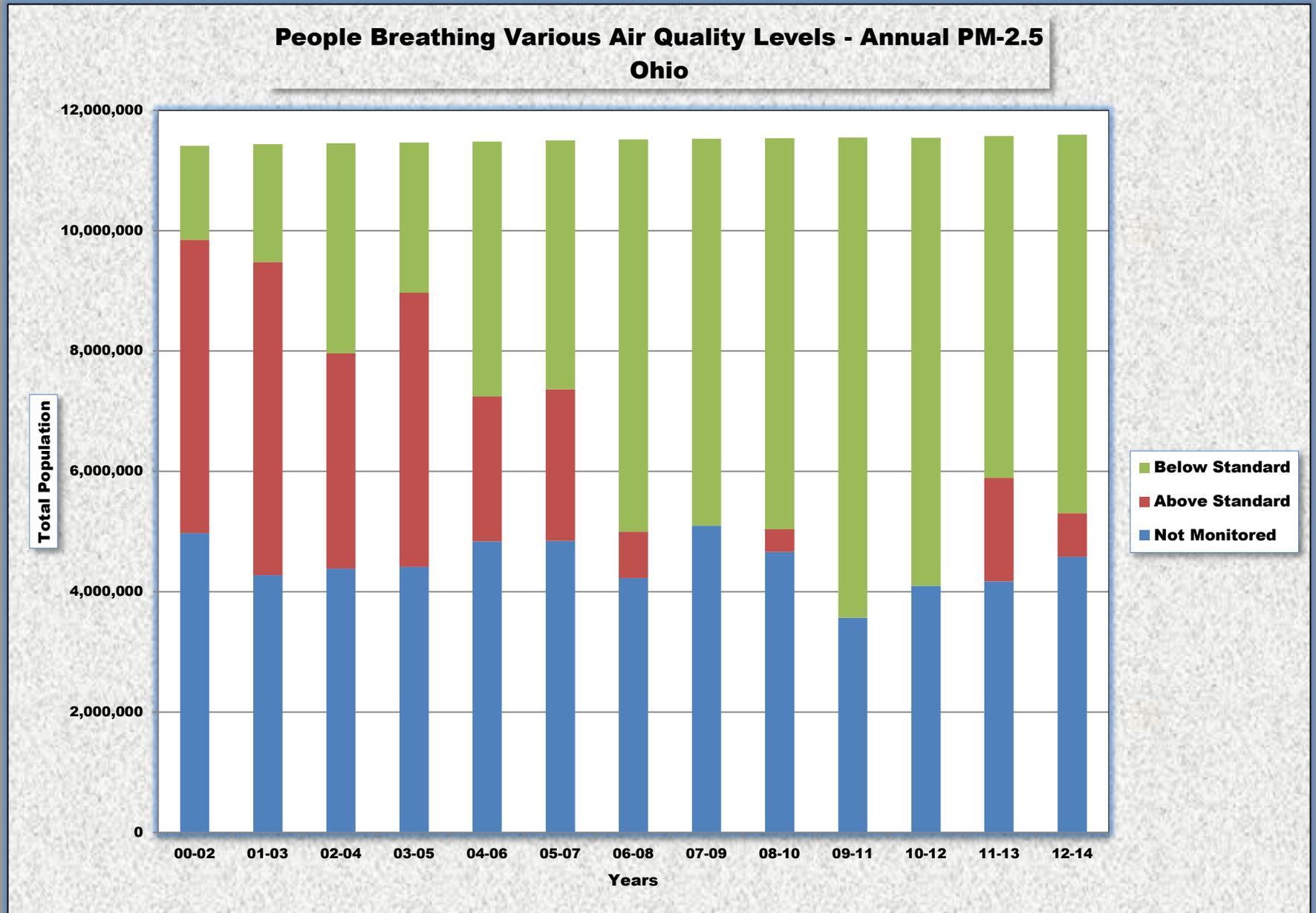


Figure OH-3



OKLAHOMA

Ozone

Significant progress has been made in ozone levels in Oklahoma. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 2.3 million people (60.3%). Figure OK-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Oklahoma have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.9 million people (55.4%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 1.5 million people (38.2%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure OK-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Oklahoma have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.9 million people (55.4%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had decreased to approximately 1.5 million people (38.2%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure OK-3 shows the distribution of people by year.

OKLAHOMA

Table OK-1
2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Adair	22,186	0.070	C	N	ND	--	ND	--	--
Caddo	29,317	0.066	B	N	ND	--	ND	--	--
Canadian	129,582	0.071	C	N	ND	--	ND	--	--
Cherokee	48,341	0.068	C	N	ND	--	ND	--	--
Cleveland	269,908	0.071	C	N	ND	--	ND	--	--
Comanche	125,033	0.073	C	N	ND	--	ND	--	--
Creek	70,632	0.070	C	N	ND	--	ND	--	--
Dewey	4,914	0.070	C	N	ND	--	ND	--	--
Kay	45,478	0.073	C	N	ND	--	ND	--	--
McClain	37,313	0.070	C	N	ND	--	ND	--	--
Mayes	40,816	0.069	C	N	ND	--	ND	--	--
Oklahoma	766,215	0.072	C	Y	20	A	9.2	A	Y
Ottawa	32,105	0.068	C	N	ND	--	ND	--	--
Pittsburg	44,626	0.069	C	N	22	A	10.0	B	N
Sequoyah	41,358	0.068	C	N	22	A	9.7	B	N
Tulsa	629,598	0.072	C	Y	20	A	9.3	A	N
Subtotal	2,337,422								
Not Monitored	1,540,629								
Total	3,878,051								

DV – Design Value

ND - No Data

MM – Multiple Monitors

OKLAHOMA

**Table OK-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	228,298	378,123	0	0	0	29,317
C	0	47,363	265,256	581,659	551,888	469,125	1,384,574	1,950,967	1,818,039	1,828,381	290,868	227,081	2,308,105
D	1,405,971	1,491,695	1,579,168	1,406,719	1,505,758	1,614,269	761,911	0	0	396,773	1,987,964	2,087,206	0
F	284,585	189,469	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,690,556	1,728,527	1,844,424	1,988,378	2,057,646	2,083,394	2,146,485	2,179,265	2,196,162	2,225,154	2,278,832	2,314,287	2,337,422
NM	1,798,524	1,776,365	1,680,809	1,560,219	1,536,444	1,550,955	1,522,491	1,538,307	1,555,189	1,566,354	1,535,988	1,536,281	1,540,629
Total	3,489,080	3,504,892	3,525,233	3,548,597	3,594,090	3,634,349	3,668,976	3,717,572	3,751,351	3,791,508	3,814,820	3,850,568	3,878,051

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,000,079	1,136,579	1,666,175	860,440	1,163,369	1,144,107	1,520,908	1,495,204	1,495,733	1,388,595	1,400,645	1,463,575	1,481,797
B	907,864	777,439	141,453	755,135	410,490	483,384	28,612	29,459	0	0	0	0	0
C	0	0	0	46,469	0	0	0	0	0	0	0	0	0
D	0	0	0	33,011	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,907,943	1,914,018	1,807,628	1,695,055	1,573,859	1,627,491	1,549,520	1,524,663	1,495,733	1,388,595	1,400,645	1,463,575	1,481,797
NM	1,581,137	1,590,874	1,717,605	1,853,542	2,020,231	2,006,858	2,119,456	2,192,909	2,255,618	2,402,913	2,414,175	2,386,993	2,396,254
Total	3,489,080	3,504,892	3,525,233	3,548,597	3,594,090	3,634,349	3,668,976	3,717,572	3,751,351	3,791,508	3,814,820	3,850,568	3,878,051

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,623,358	1,805,321	1,807,628	1,625,249	1,573,858	1,493,038	1,549,520	1,524,663	1,495,733	1,388,595	1,400,645	1,463,575	1,395,813
B	284,586	108,696	0	69,806	0	134,452	0	0	0	0	0	0	85,984
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,907,943	1,914,017	1,807,628	1,695,055	1,573,858	1,627,490	1,549,520	1,524,663	1,495,733	1,388,595	1,400,645	1,463,575	1,481,797
NM	1,581,137	1,590,875	1,717,605	1,853,542	2,020,232	2,006,859	2,119,456	2,192,909	2,255,618	2,402,913	2,414,175	2,386,993	2,396,254
Total	3,489,080	3,504,892	3,525,233	3,548,597	3,594,090	3,634,349	3,668,976	3,717,572	3,751,351	3,791,508	3,814,820	3,850,568	3,878,051

NM – Not Monitored

Figure OK-1

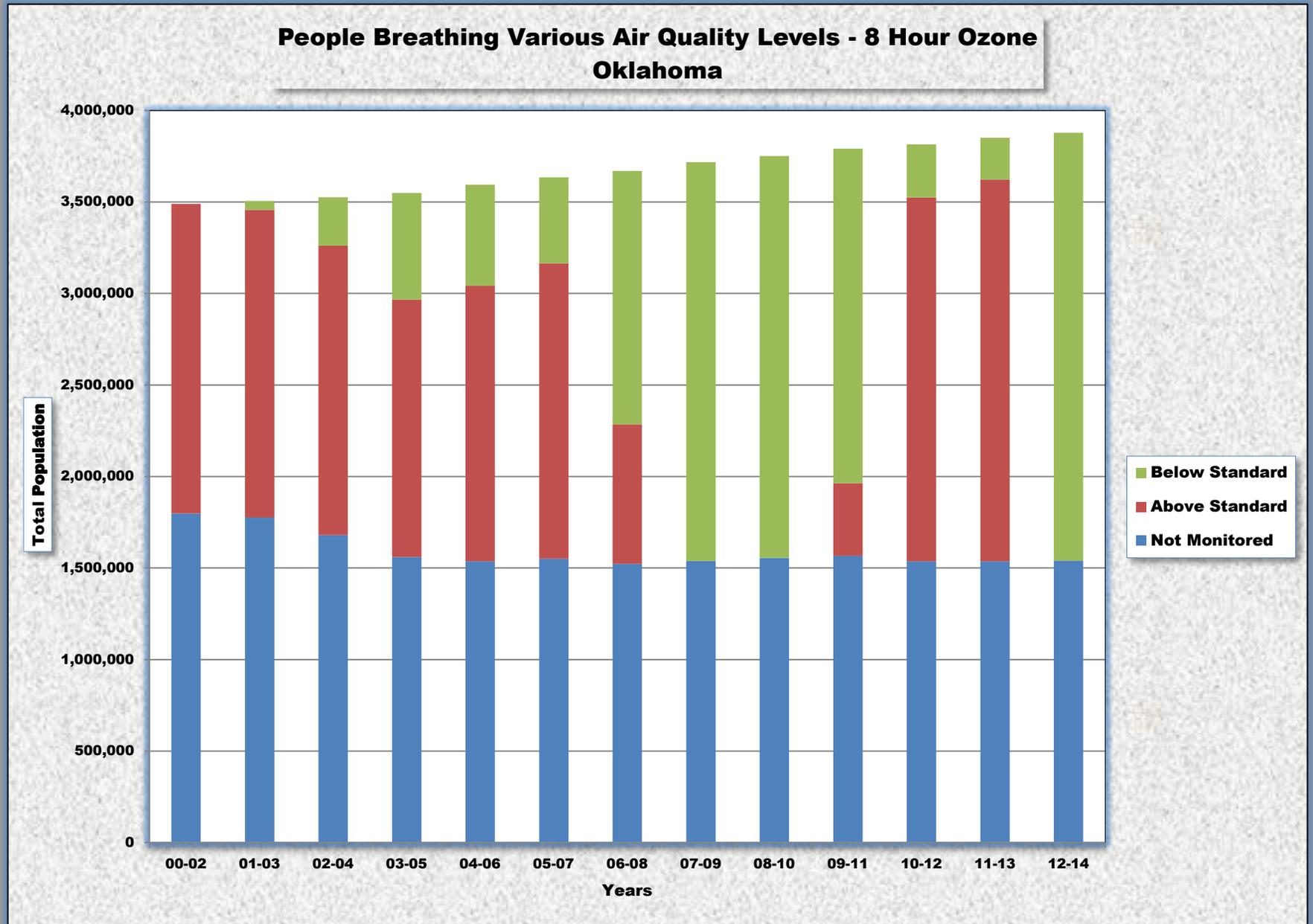


Figure OK-2

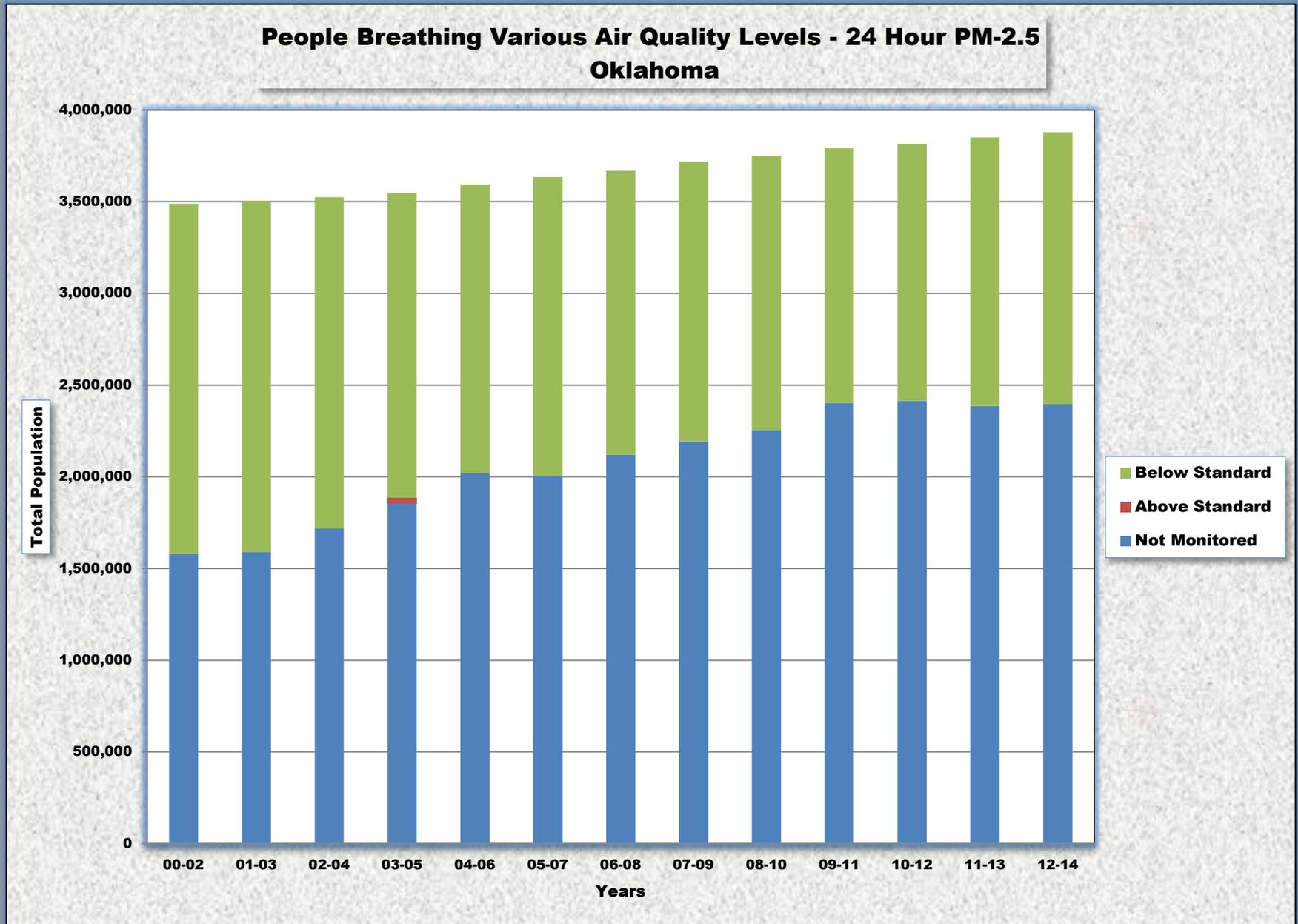
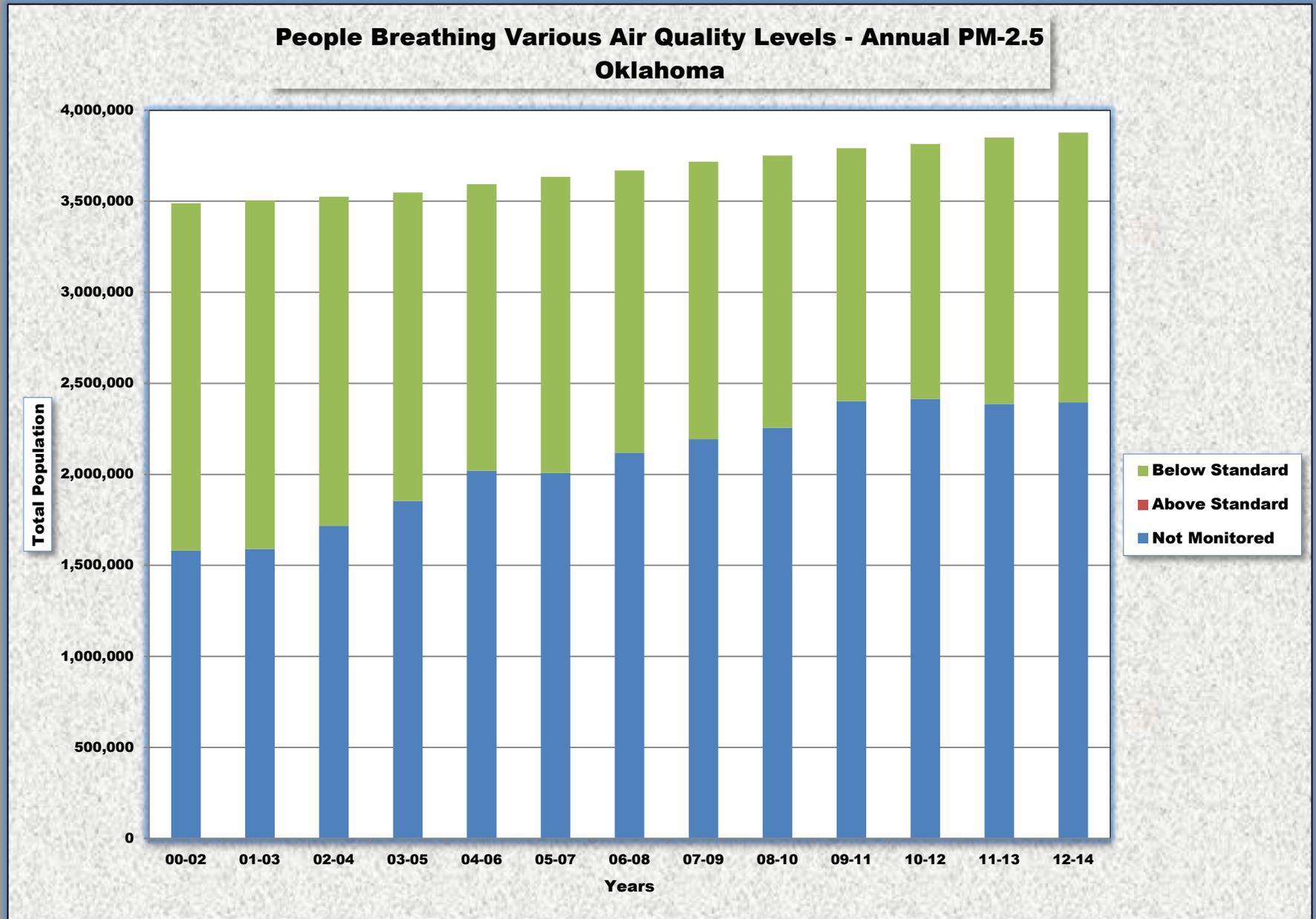


Figure OK-3



OREGON

Ozone

Ozone levels in Oregon have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.2 million (34.2%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 2.9 million people (73.7%). The remainder of the population lived in counties where ozone was not measured. Figure OR-1 shows the distribution of people by year.

24-Hour PM-2.5

In the 2000 – 2002 time period, approximately 2.2 million people (63.5%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 2.0 million people (50.2%). Figure OR-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Oregon have historically been better than the standard. In the 2000 – 2002 time period, approximately 2.6 million people (73.6%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had decreased to approximately 2.1 million people (52.7%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure OR-3 shows the distribution of people by year.

Table OR-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Clackamas	394,972	0.062	B	N	ND	--	ND	--	--
Columbia	49,459	0.051	A	N	ND	--	ND	--	--
Crook	20,998	ND	--	--	42	F	9.8	B	N
Deschutes	170,388	0.059	A	N	ND	--	ND	--	--
Harney	7,126	ND	--	--	30	B	9.0	A	N
Jackson	210,287	0.064	B	N	35	C	10.0	B	N
Josephine	83,589	ND	--	--	26	A	8.3	A	N
Klamath	65,455	ND	--	--	34	C	10.2	B	N
Lake	7,838	ND	--	--	57	F	10.6	B	N
Lane	358,337	0.057	A	Y	28	B	7.3	A	Y
Marion	326,110	0.060	B	N	ND	--	ND	--	--
Multnomah	776,712	0.056	A	N	25	A	7.4	A	N
Umatilla	76,705	0.064	B	N	ND	--	ND	--	--
Washington	562,998	0.057	A	N	29	B	7.7	A	N
Subtotal	3,110,974								
Not Monitored	859,265								
Total	3,970,239								

DV – Design Value

ND - No Data

MM – Multiple Monitors

OREGON

Table OR-2 People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	675,866	0	177,879	179,654	913,705	930,101	49,209	777,115	960,543	1,514,551	2,011,747	2,216,255	1,917,894
B	338,229	682,392	509,495	509,332	485,044	1,034,364	1,741,997	1,240,625	1,146,280	1,157,334	844,360	673,528	1,008,074
C	186,704	531,277	536,228	542,271	536,784	0	201,162	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,200,799	1,213,669	1,223,602	1,231,257	1,935,533	1,964,465	1,992,368	2,017,740	2,086,823	2,671,885	2,856,107	2,889,783	2,925,968
NM	2,312,625	2,333,707	2,345,861	2,381,945	1,735,350	1,757,952	1,776,381	1,790,860	1,744,251	1,199,974	1,043,246	1,040,282	1,044,271
Total	3,513,424	3,547,376	3,569,463	3,613,202	3,670,883	3,722,417	3,768,749	3,808,600	3,831,074	3,871,859	3,899,353	3,930,065	3,970,239

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,505,465	1,368,440	821,213	884,156	611,185	588,687	598,607	1,046,601	2,091,705	1,312,311	1,919,451	249,079	1,003,647
B	184,764	358,141	683,166	1,081,132	0	348,900	100,581	183,466	0	644,236	7,212	178,106	641,791
C	541,581	510,195	174,837	209,294	520,812	214,524	472,553	124,382	0	0	73,683	1,536,822	347,409
D	124,469	145,991	64,062	0	0	0	66,732	0	78,238	74,207	118,181	86,725	0
F	227,903	147,293	175,617	177,4978	179,603	181,715	116,059	191,311	66,380	70,683	0	96,873	100,503
Subtotal	2,584,182	2,530,060	1,918,895	1,379,079	1,311,600	1,333,826	1,354,532	1,545,760	2,236,323	2,101,437	2,108,527	2,147,605	2,093,350
NM	929,242	1,017,316	1,650,568	2,234,123	2,359,283	2,388,591	2,414,217	2,262,840	1,594,751	1,770,422	1,790,826	1,782,460	1,876,889
Total	3,513,424	3,547,376	3,569,463	3,613,202	3,670,883	3,722,417	3,768,749	3,808,600	3,831,074	3,871,859	3,899,353	3,930,065	3,970,239

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	2,502,306	2,447,349	1,808,118	1,267,135	1,198,290	1,333,825	1,354,532	1,545,759	2,236,323	2,101,437	2,108,527	1,844,515	1,788,772
B	0	82,711	110,776	111,944	113,309	0	0	0	0	0	0	229,360	304,578
C	81,877	0	0	0	0	0	0	0	0	0	0	73,730	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,584,183	2,530,060	1,918,894	1,379,079	1,311,599	1,333,825	1,345,532	1,545,759	1,236,323	2,101,437	2,108,527	2,147,605	2,093,350
NM	929,241	1,017,316	1,650,569	2,234,123	2,359,284	2,388,592	2,414,217	2,262,841	1,594,751	1,770,422	1,790,826	1,782,460	1,876,889
Total	3,513,424	3,547,376	3,569,463	3,613,202	3,670,883	3,722,417	3,759,749	3,808,600	3,831,074	3,871,859	3,899,353	3,930,065	3,970,239

NM – Not Monitored

Figure OR-1

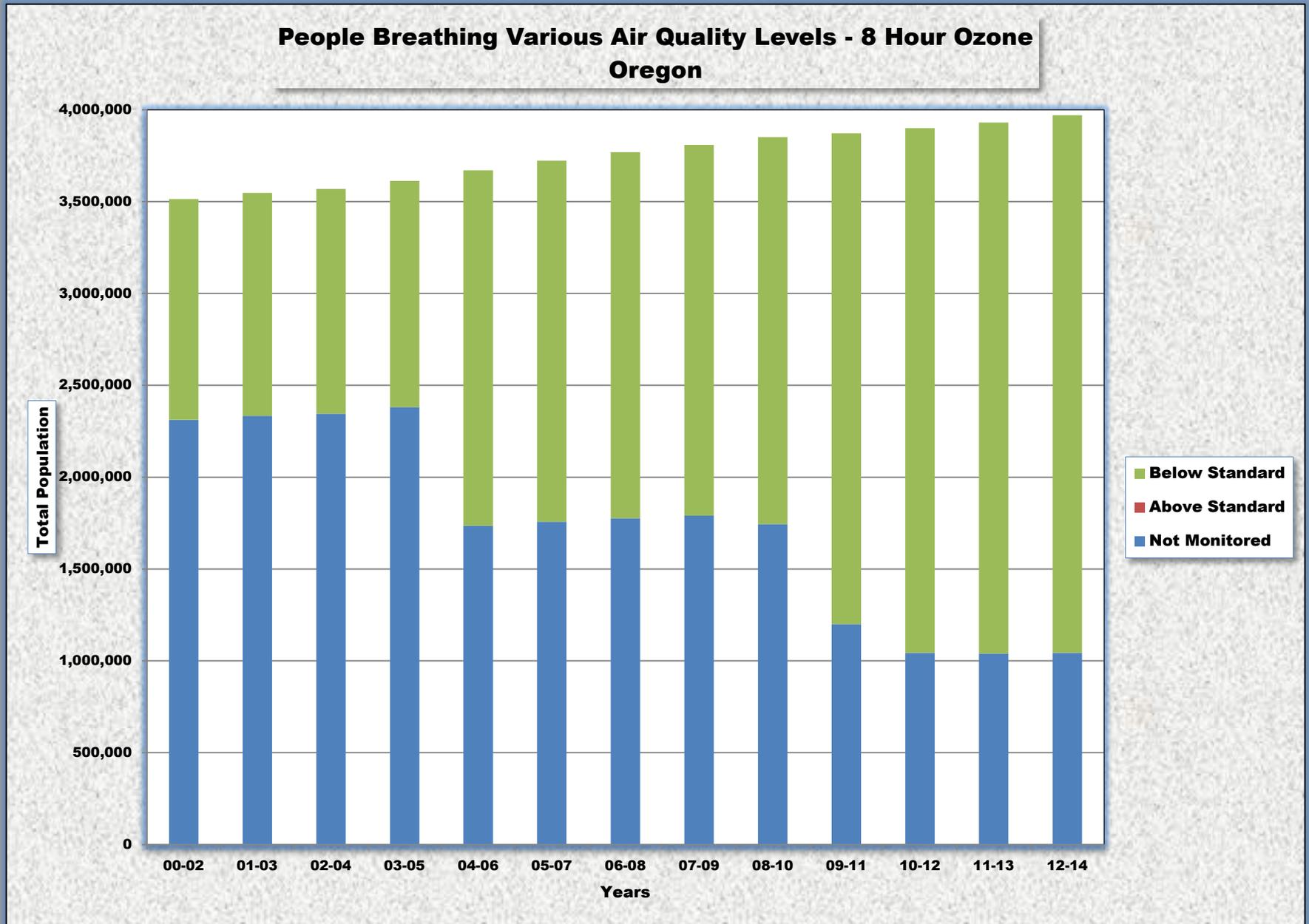


Figure OR-2

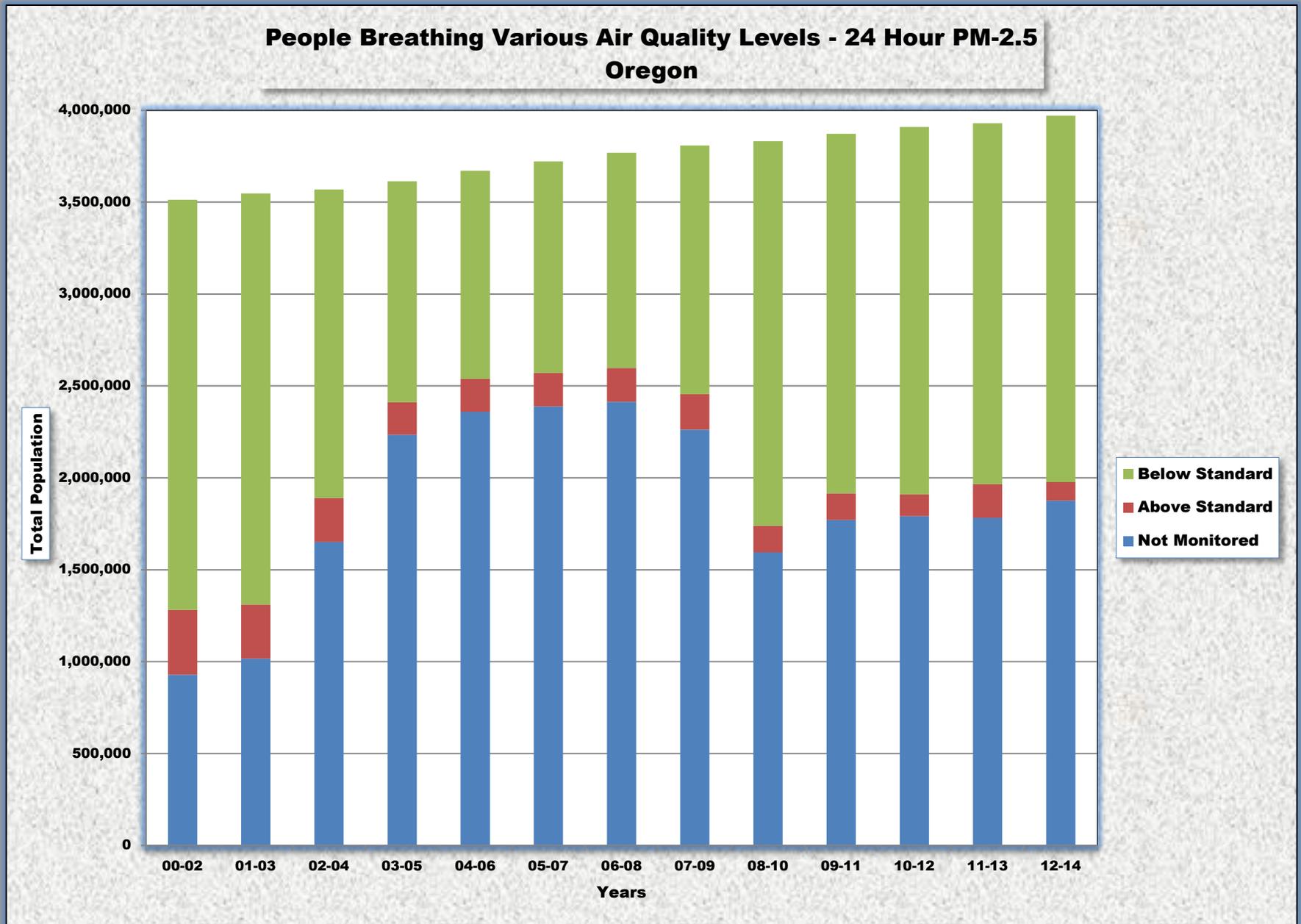
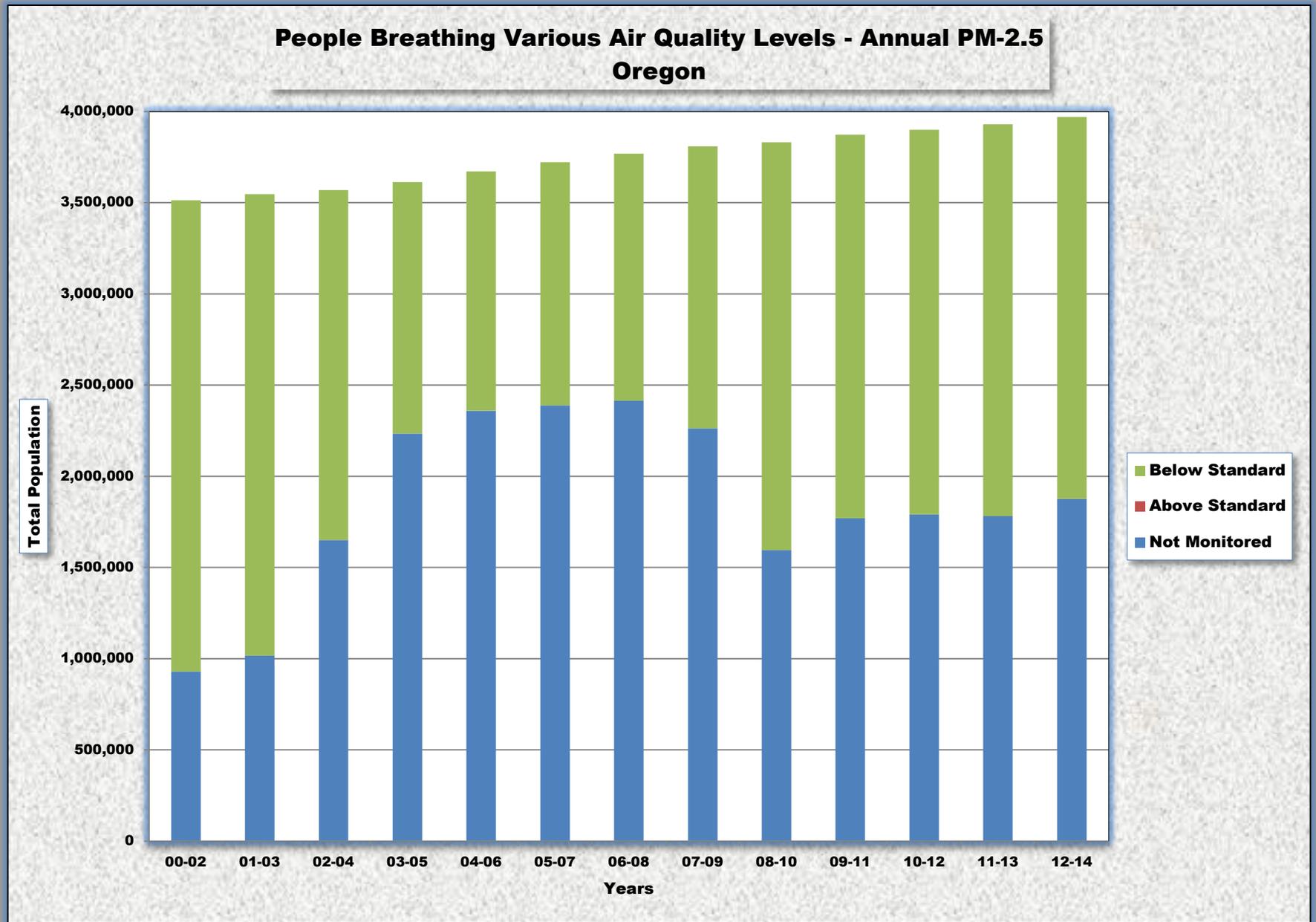


Figure OR-3



PENNSYLVANIA

Ozone

Significant progress has been made in ozone levels in Pennsylvania. In the 2000 – 2002 time period, approximately 0.37 million people (3.0%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 10.5 million people (82.4%). Figure PA-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Pennsylvania. In the 2000 – 2002 time period, approximately 0.85 million people (6.9%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 7.7 million people (60.3%). Figure PA-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in Pennsylvania. In the 2000 – 2002 time period, approximately 4.5 million people (36.5%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 7.7 million people (60.3%). Figure PA-3 shows the distribution of people by year.

PENNSYLVANIA

**Table PA-1
2012 – 2014**

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Adams	101,714	0.067	B	N	25	A	10.0	B	N
Allegheny	1,731,255	0.073	C	Y	23	A	10.3	B	Y
Armstrong	67,785	0.074	C	N	22	A	10.6	B	N
Beaver	169,392	0.072	C	Y	24	A	11.5	C	N
Berks	413,691	0.068	C	Y	29	B	10.7	B	N
Blair	125,955	0.068	C	N	28	B	11.7	C	N
Bucks	626,685	0.075	C	N	32	C	11.3	C	N
Cambria	137,132	0.066	B	N	28	B	11.6	C	N
Centre	158,742	0.067	B	Y	24	A	9.8	B	N
Chester	512,784	0.073	C	N	26	A	10.1	B	N
Clearfield	81,191	0.066	B	N	ND	--	ND	--	--
Cumberland	245,762	ND	--	--	33	C	12.0	C	N
Dauphin	271,453	0.069	C	N	ND	--	ND	--	--
Delaware	562,960	0.074	C	N	26	A	11.6	C	Y
Elk	31,194	0.066	B	N	ND	--	ND	--	--
Erie	278,443	0.071	C	N	25	A	11.4	C	N
Franklin	152,892	0.067	B	N	ND	--	ND	--	--
Greene	37,843	0.068	C	N	ND	--	ND	--	--
Indiana	87,706	0.074	C	N	ND	--	ND	--	--
Lackawanna	212,719	0.066	B	N	ND	--	ND	--	--
Lancaster	533,320	0.069	C	Y	31	B	11.6	C	N
Lawrence	88,771	0.072	C	N	ND	--	ND	--	--
Lebanon	136,359	0.071	C	N	34	C	12.8	D	N
Lehigh	357,823	0.070	C	N	ND	--	ND	--	--
Luzerne	318,829	0.063	B	N	ND	--	ND	--	--
Lycoming	116,508	0.066	B	N	ND	--	ND	--	--
Mercer	114,884	0.070	C	Y	22	A	10.0	B	N
Monroe	166,314	0.063	B	N	20	A	8.7	A	N
Montgomery	816,857	0.071	C	N	25	A	8.9	A	Y
Northampton	300,654	0.067	B	N	28	B	10.2	B	Y
Perry	45,634	0.066	B	N	ND	--	ND	--	--
Philadelphia	1,560,297	0.065	B	Y	ND	--	ND	--	--
Somerset	76,218	0.064	B	N	ND	--	ND	--	--
Tioga	42,274	0.065	B	N	ND	--	ND	--	--
Washington	208,187	0.068	C	Y	22	A	10.1	B	Y
Westmoreland	359,320	0.069	C	N	23	A	10.5	B	N
York	440,755	0.069	C	N	27	A	11.0	C	N
Subtotal	11,690,302								
Not Monitored	1,096,907								
Total	12,787,209								

DV – Design Value

ND - No Data

MM – Multiple Monitors

PENNSYLVANIA

**Table PA-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	780,148
B	0	0	0	496,954	496,237	159,116	909,471	1,391,450	1,307,867	894,668	321,027	320,103	2,127,532
C	374,623	373,451	373,221	554,187	1,263,512	1,212,462	1,925,306	3,446,582	5,402,181	6,061,957	3,716,802	3,779,955	7,627,042
D	663,900	211,804	2,235,336	4,918,618	3,741,0945	3,860,115	4,257,512	3,941,737	3,582,567	2,525,161	5,033,106	5,603,787	410,418
F	8,440,144	9,406,466	7,497,115	4,165,188	4,277,032	4,675,786	3,023,926	1,381,995	0	768,236	1,400,857	776,583	0
Subtotal	9,478,667	9,991,721	10,105,672	10,134,947	9,777,875	9,907,479	10,116,815	10,161,764	10,292,615	10,250,022	10,471,792	10,480,428	10,945,140
NM	2,852,364	2,382,937	2,305,050	2,315,043	2,732,934	2,656,458	2,496,070	2,505,094	2,409,764	2,492,864	2,291,744	2,293,373	1,842,069
Total	12,331,031	12,374,658	12,410,722	12,449,990	12,510,809	12,563,937	12,612,885	12,666,858	12,702,379	12,742,886	12,763,536	12,773,801	12,787,209

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	194,846	0	0	0	0	0	0	795,494	1,683,505	1,837,180	4,143,283	3,571,940	4,754,005
B	0	0	315,239	417,456	212,595	213,513	1,281,980	3,637,216	3,869,807	5,638,214	4,392,245	2,598,397	1,792,832
C	659,306	359,856	3,076,989	3,395,417	3,965,353	3,173,901	4,256,358	4,281,076	921,834	1,579,549	149,634	1,087,889	1,162,713
D	2,934,735	2,015,889	3,229,470	2,683,565	3,231,470	3,585,553	2,720,810	203,695	0	0	0	153,941	0
F	5,100,930	6,390,601	2,996,270	3,131,539	1,586,540	1,656,887	407,024	203,695	203,891	204,511	286,620	0	0
Subtotal	8,889,823	8,566,346	9,617,968	9,638,977	8,995,958	8,629,854	8,666,772	9,121,176	6,679,037	9,260,454	8,860,782	7,392,167	7,709,550
NM	3,441,208	3,808,312	2,792,754	2,811,013	3,514,851	3,934,083	3,946,113	3,545,682	6,023,342	3,482,432	3,902,754	5,361,634	5,077,659
Total	12,331,031	12,374,658	12,410,722	12,449,990	12,510,809	12,563,937	12,612,885	12,666,858	12,702,379	12,742,886	12,763,536	12,773,801	12,787,209

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	97,300	0	212,595	213,513	948,943	2,312,150	3,459,763	6,438,880	6,090,188	1,078,317	939,545
B	806,342	1,204,609	2,460,888	2,002,560	3,165,733	3,093,786	3,319,147	4,154,466	3,015,383	1,449,219	2,445,340	1,775,483	3,416,913
C	3,696,840	3,580,936	4,961,460	3,075,300	2,999,188	3,180,052	3,991,058	2,450,886	0	1,371,355	325,253	3,535,906	2,781,346
D	2,582,678	2,809,271	2,090,828	3,265,711	2,465,188	1,989,694	203,512	0	203,891	0	0	868,520	571,746
F	803,962	628,324	1,004,792	1,284,406	153,253	152,810	203,512	203,695	0	0	0	153,941	0
Subtotal	8,889,822	8,423,140	9,715,268	9,627,977	10,995,957	8,626,855	8,666,772	9,121,177	6,679,017	9,259,454	8,860,771	7,412,167	7,709,550
NM	3,441,209	3,951,518	2,695,454	2,822,013	3,514,852	3,937,082	3,946,113	3,545,681	6,023,342	3,483,432	3,902,765	5,361,634	5,077,659
Total	12,331,031	12,374,658	12,410,722	12,449,990	12,510,809	12,563,937	12,612,885	12,666,858	12,702,379	12,742,886	12,763,536	12,773,801	12,787,209

NM – Not Monitored

Figure PA-1

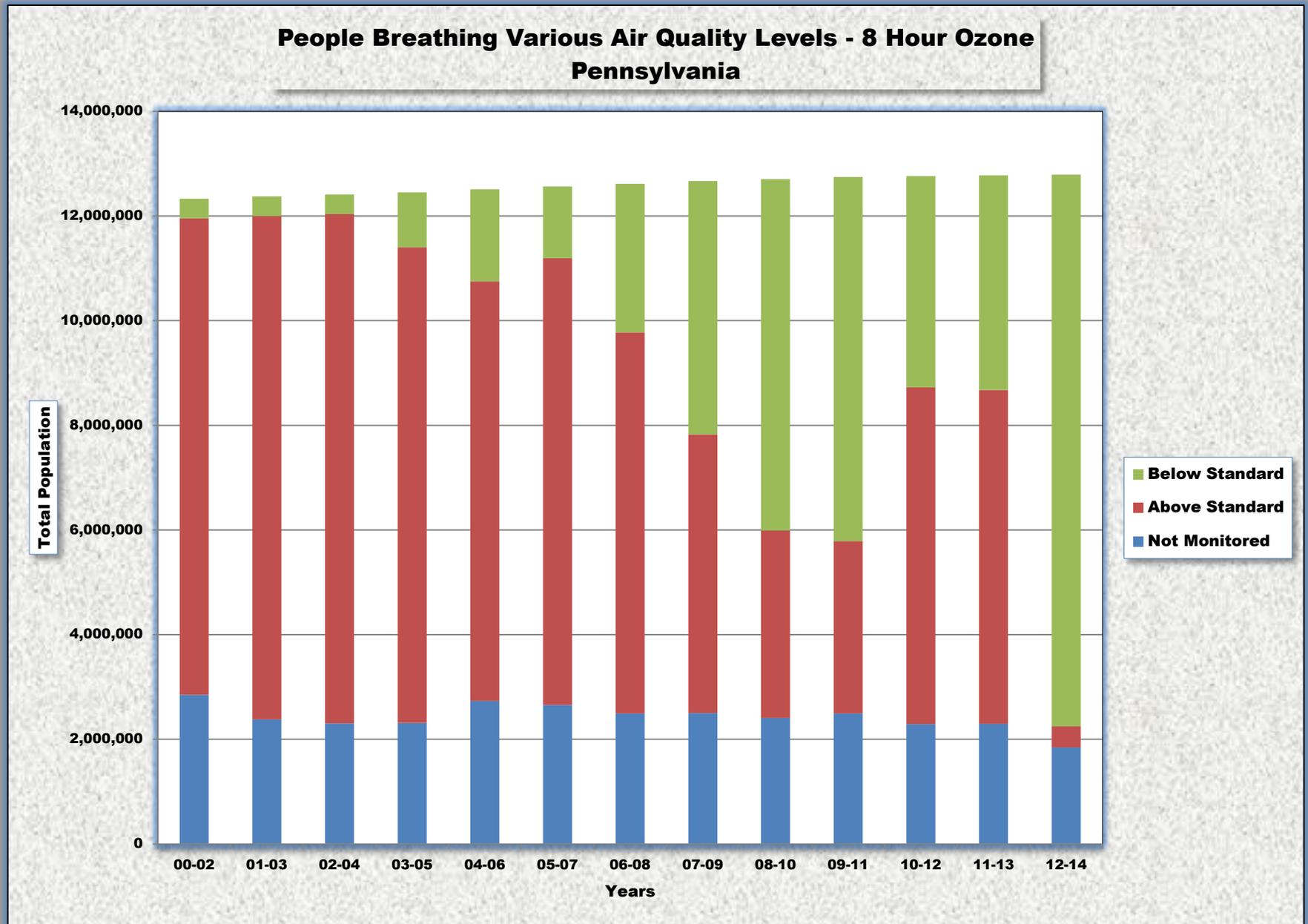


Figure PA-2

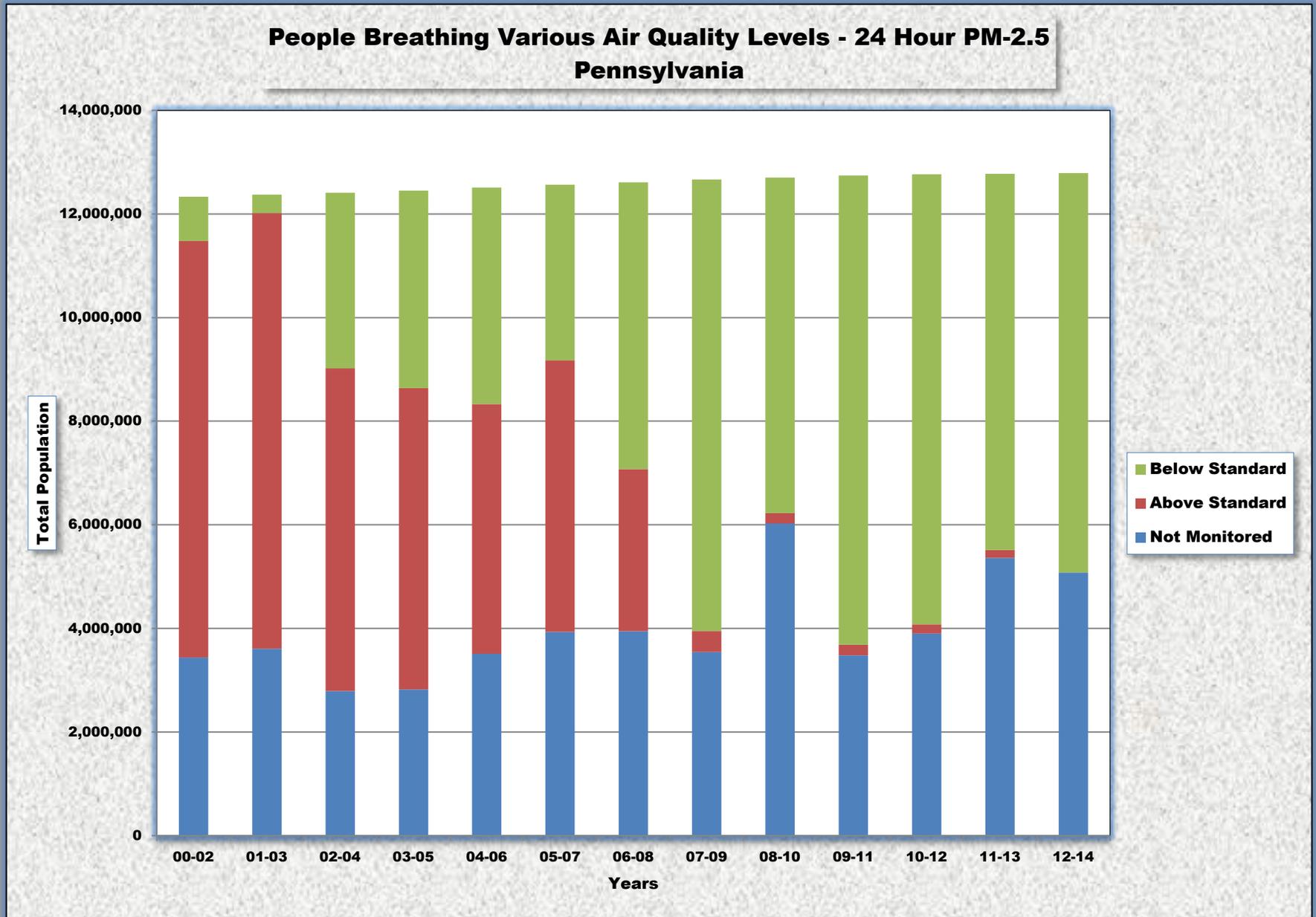
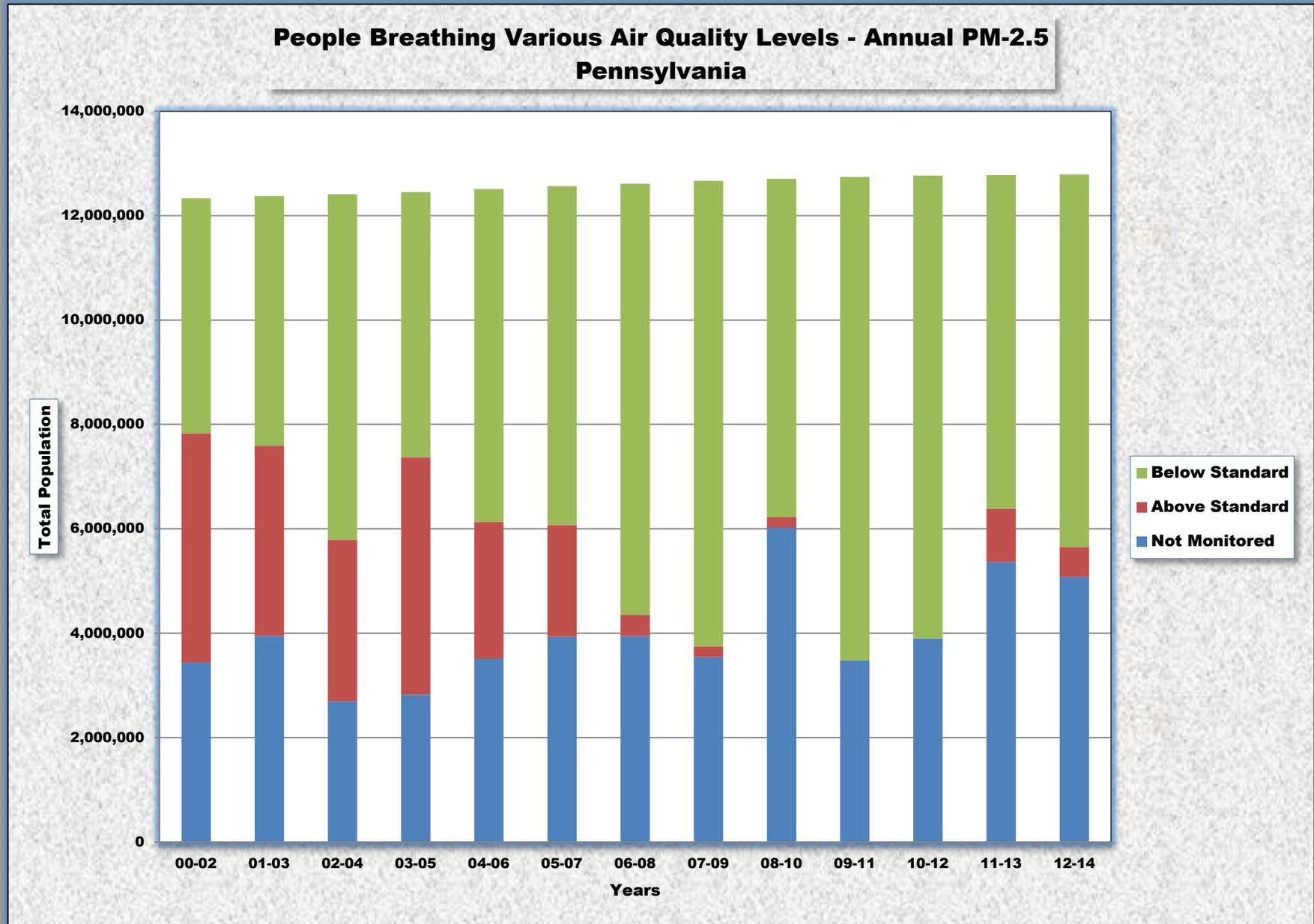


Figure PA-3



RHODE ISLAND

Ozone

Significant progress has been made in ozone levels in Rhode Island. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 0.9 million people (87.6%). Figure RI-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Rhode Island have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.9 million people (87.1%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 0.9 million people (87.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure RI-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Rhode Island have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.9 million people (87.1%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had decreased to approximately 0.9 million people (87.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure RI-3 shows the distribution of people by year.

**Table RI-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg.24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Kent	165,128	0.070	C	N	13	A	5.2	A	N
Providence	631,974	0.073	C	N	19	A	7.3	A	Y
Washington	126,653	0.074	C	N	15	A	4.5	A	N
Subtotal	923,755								
Not Monitored	131,418								
Total	1,055,173								

DV – Design Value

ND - No Data

MM- Multiple Monitors

RHODE ISLAND

**Table RI-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	792,825	918,807	793,166	165,035	923,755
D	0	0	0	635,060	631,691	0	921,830	920,675	126,979	0	125,946	754,859	0
F	928,192	934,038	936,857	297,227	295,279	923,580	0	0	0	0	0	0	0
Subtotal	928,192	934,038	936,857	932,287	926,980	923,580	921,830	920,675	919,804	918,807	919,112	919,894	923,755
NM	137,803	137,304	137,722	135,629	136,116	133,735	133,173	132,971	132,763	132,495	131,180	131,617	131,418
Total	1,065,995	1,071,342	1,074,579	1,067,916	1,063,096	1,057,315	1,055,003	1,053,646	1,052,567	1,051,302	1,050,292	1,051,511	1,055,173

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	337,213	0	0	0	0	0	638,186	626,304	626,667	792,244	793,166	793,635	923,755
B	590,979	594,740	596,111	593,188	800,213	796,625	156,972	0	0	0	0	0	0
C	0	212,050	212,786	211,887	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	928,192	806,790	808,897	804,875	800,213	796,625	795,158	626,304	626,667	792,244	793,166	793,635	923,755
NM	137,803	264,552	265,682	263,041	262,883	260,690	259,845	427,342	425,900	259,058	257,126	257,876	131,418
Total	1,065,995	1,071,342	1,074,579	1,067,916	1,063,096	1,057,315	1,055,003	1,053,646	1,052,567	1,051,302	1,050,292	1,051,511	1,055,173

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	928,192	594,740	596,111	593,188	642,290	639,348	795,158	626,304	626,667	792,244	793,166	584,102	923,755
B	0	212,050	212,786	211,687	157,923	157,278	0	0	0	0	0	209,533	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	928,192	809,790	808,897	804,875	800,213	796,626	792,158	626,304	626,667	792,244	793,166	793,635	923,755
NM	137,803	264,552	265,682	263,041	262,883	260,689	259,845	427,342	425,900	259,058	257,126	257,876	131,418
Total	1,065,995	1,074,342	1,074,579	1,067,916	1,063,096	1,057,315	1,055,003	1,053,646	1,052,567	1,051,302	1,050,292	1,051,511	1,055,173

NM – Not Monitored

Figure RI-1

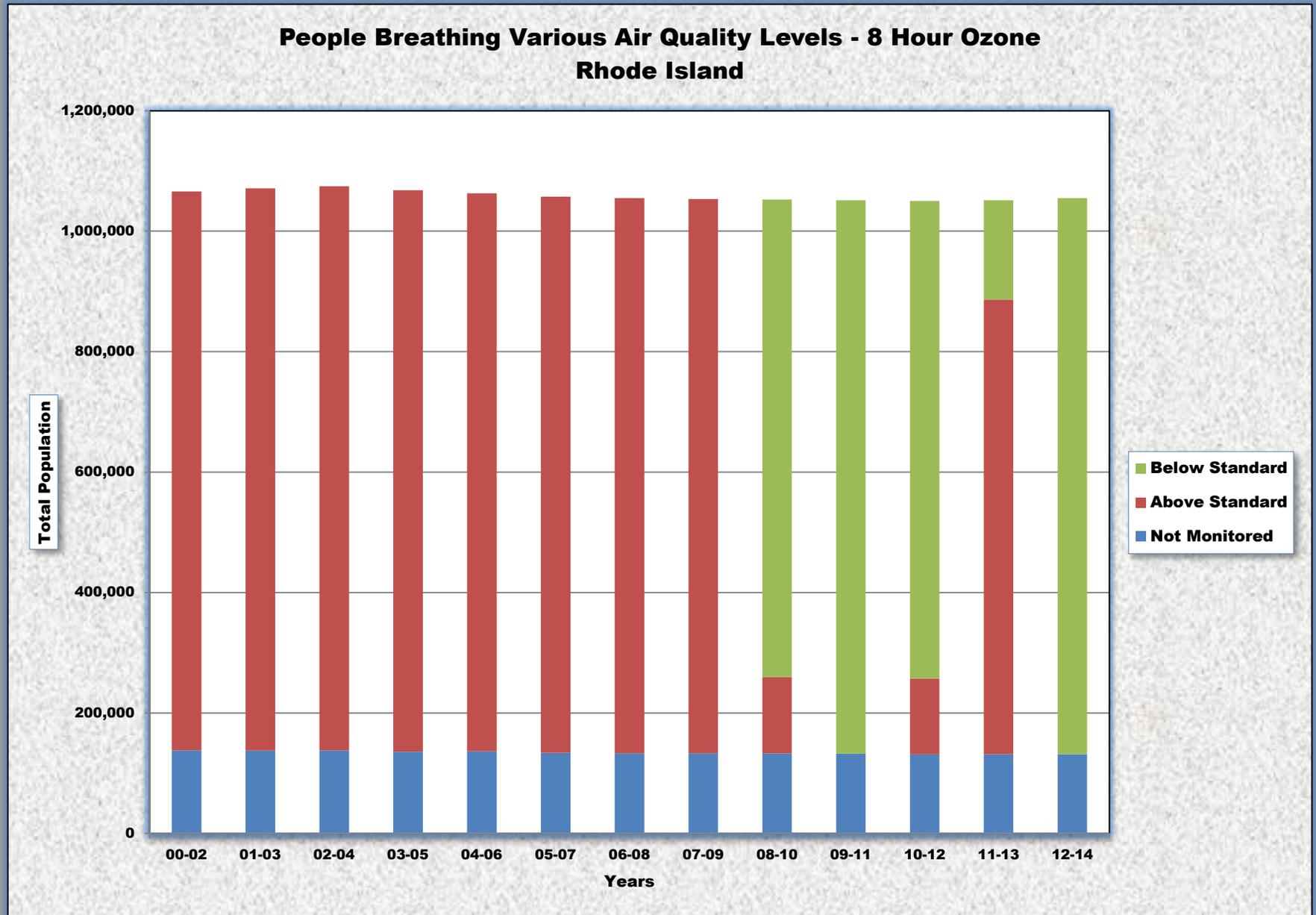


Figure RI-2

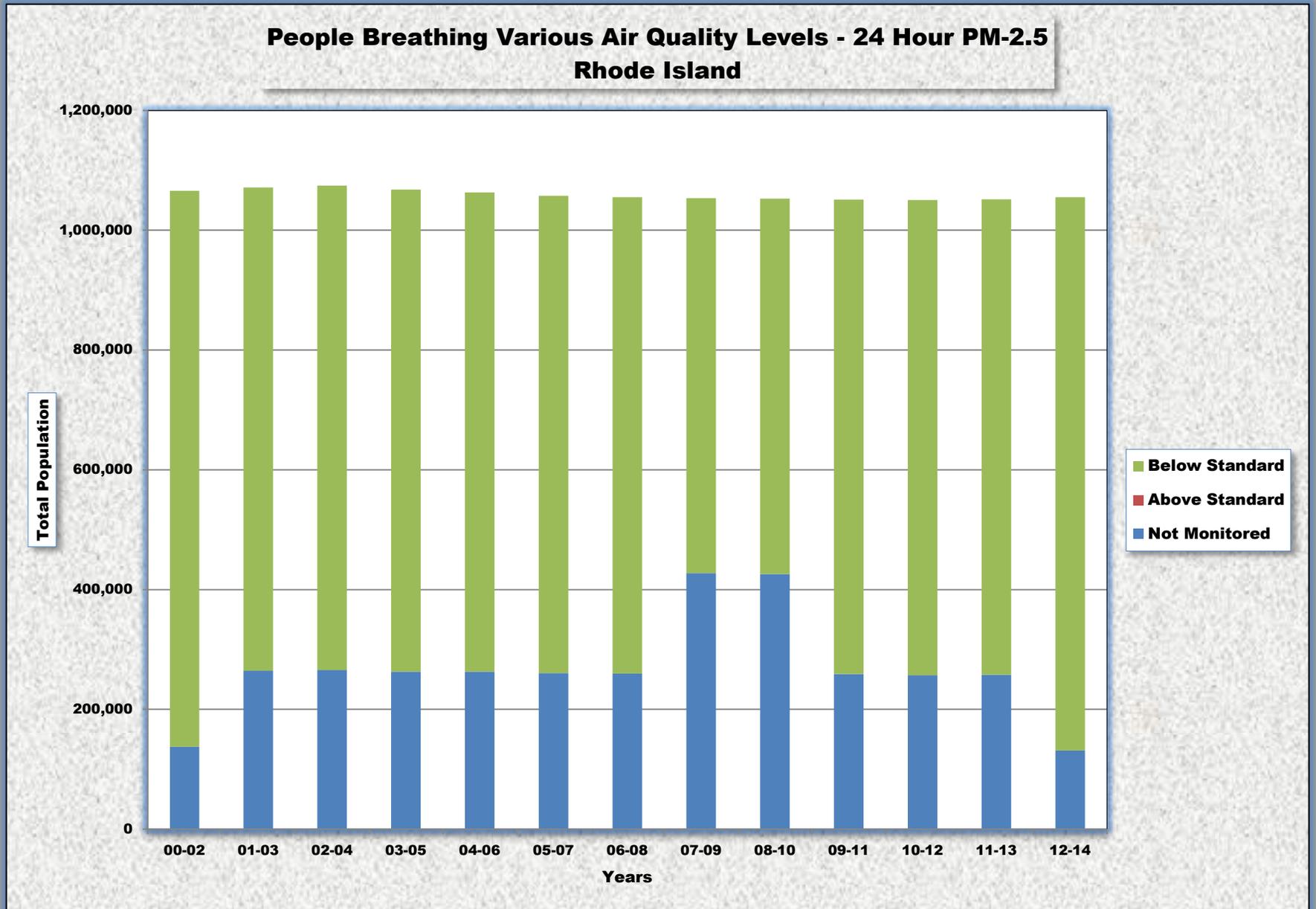
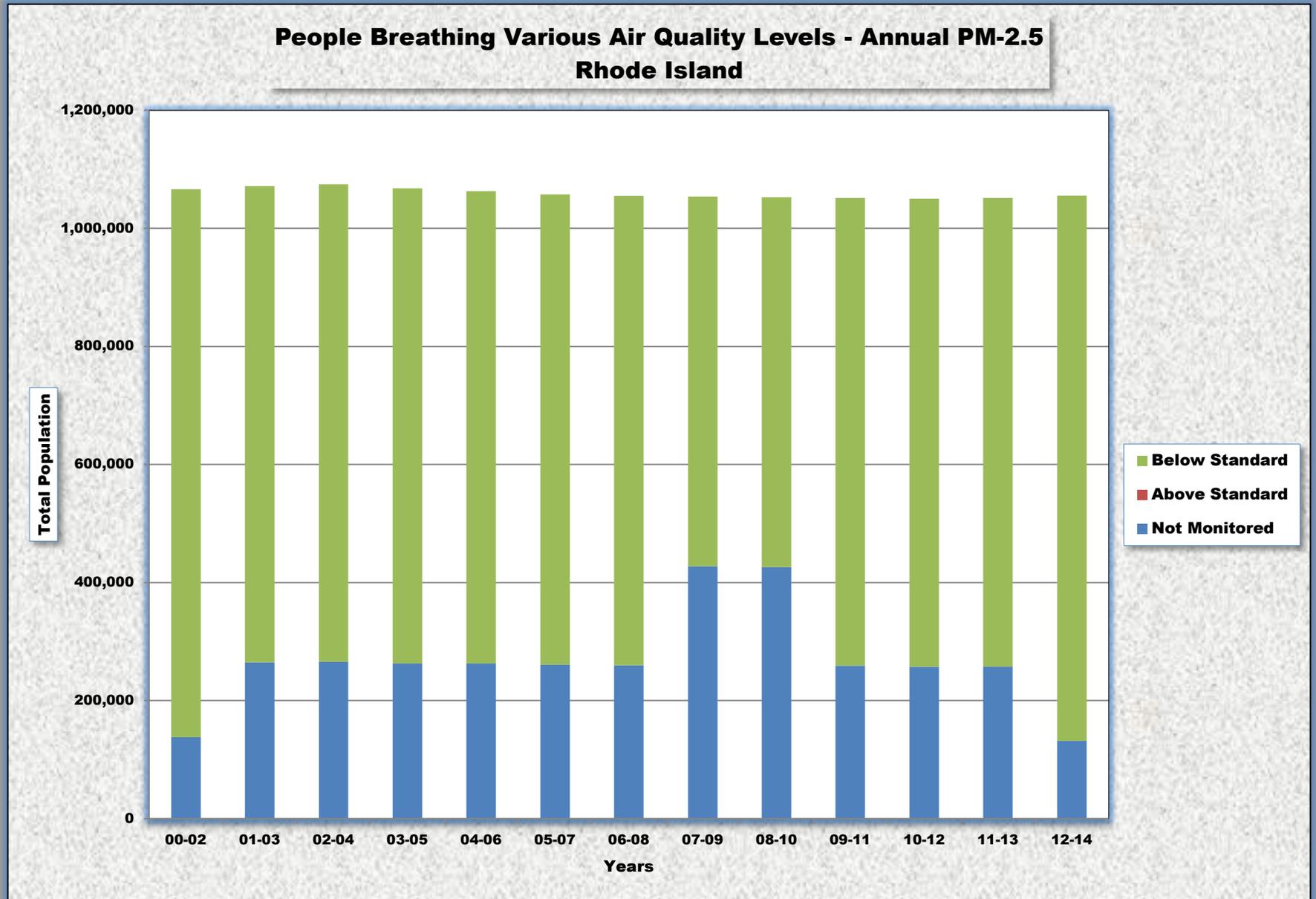


Figure RI-3



SOUTH CAROLINA

Ozone

Significant progress has been made in ozone levels in South Carolina. In the 2000 – 2002 time period, 0.5 million people (11.3%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 2.8 million people (58.2%). The remainder of the population lived in counties where ozone was not monitored. Figure SC-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in South Carolina have historically been better than the standard. In the 2000 – 2002 time period, approximately 2.0 million people (49.6%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 2.0 million people (42.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure SC-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in South Carolina have usually been better than the standard. In the 2000 – 2002 time period, approximately 2.0 million people (49.6%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this was approximately 2.0 million people (42.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure SC-3 shows the distribution of people by year.

Table SC-1
2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Abbeville	24,965	0.061	B	N	ND	--	ND	--	--
Aiken	164,753	0.061	B	N	ND	--	ND	--	--
Anderson	192,810	0.062	B	N	ND	--	ND	--	--
Berkeley	198,205	0.059	A	N	ND	--	ND	--	--
Charleston	381,015	0.060	B	N	17	A	8.0	A	Y
Cherokee	56,024	0.065	B	N	ND	--	ND	--	--
Chesterfield	46,125	0.060	B	N	17	A	8.1	A	N
Colleton	37,771	0.055	A	N	ND	--	ND	--	--
Darlington	67,799	0.064	B	N	ND	--	ND	--	--
Edgefield	26,553	0.055	A	N	17	A	8.8	A	N
Florence	139,231	ND	--	--	18	A	9.1	A	N
Greenville	482,752	0.063	B	Y	19	A	9.2	A	Y
Lexington	277,888	ND	--	--	20	A	9.6	B	N
Oconee	75,192	0.060	B	N	ND	--	ND	--	--
Pickens	120,368	0.061	B	Y	ND	--	ND	--	--
Richland	401,566	0.059	A	Y	18	A	8.2	A	Y
Spartanburg	293,542	0.066	B	N	19	A	9.3	A	N
York	245,346	0.060	B	N	ND	--	ND	--	--
Subtotal	3,231,905								
Not Monitored	1,600,577								
Total	4,832,482								

DV – Design Value

ND - No Data

MM – Multiple Monitors

SOUTH CAROLINA

**Table SC-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	197,309	530,240
B	0	0	0	0	0	164,913	171,099	742,648	973,587	1,559,751	1,527,800	1,892,366	2,284,546
C	464,117	504,849	669,377	1,161,301	1,148,254	755,319	780,467	996,613	780,689	1,153,289	1,217,927	689,740	0
D	284,097	694,431	1,106,716	898,001	798,348	880,884	767,581	283,335	284,307	0	0	0	0
F	855,063	878,184	377,078	116,334	268,898	274,215	279,673	0	0	0	0	0	0
Subtotal	1,603,272	2,077,464	2,153,171	2,175,636	2,215,500	2,075,831	1,998,820	2,022,590	2,038,583	2,713,040	2,745,727	2,778,415	2,814,786
NM	2,504,523	2,072,833	2,057,750	2,094,514	2,142,347	2,368,279	2,530,176	2,567,276	2,586,781	1,966,190	1,977,996	1,995,424	2,017,696
Total	4,107,795	4,150,297	4,210,921	4,270,150	4,357,847	4,444,110	4,528,996	4,589,872	4,625,364	4,679,230	4,723,723	4,774,839	4,832,482

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	490,503	1,231,383	942,176	561,219	167,413	337,147	1,175,260	1,803,512	1,596,321	1,835,343	1,996,146	2,022,006	2,048,672
B	1,157,696	845,823	1,175,492	715,676	1,138,497	1,807,925	718,738	0	0	0	0	0	0
C	390,197	197,121	199,660	1,079,767	1,104,622	457,271	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,038,396	2,274,327	2,317,328	2,356,662	2,410,532	2,402,343	1,893,998	1,863,512	1,596,321	1,835,343	1,996,146	2,012,005	2,048,672
NM	2,069,399	1,875,970	1,893,593	1,913,488	1,947,315	2,041,767	2,634,998	2,726,360	3,029,043	2,843,887	2,727,577	2,752,834	2,783,810
Total	4,107,795	4,150,297	4,210,921	4,270,150	4,357,847	4,444,110	4,528,996	4,589,872	4,625,364	4,679,230	4,723,723	4,774,839	4,832,482

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	356,174	776,952	753,145	607,504	386,116	919,071	415,010	1,157,874	1,596,321	1,835,343	1,996,146	961,241	1,770,784
B	412,517	1,103,133	1,164,863	669,391	673,155	374,532	787,499	705,638	0	0	0	1,060,764	277,888
C	1,269,706	197,121	199,660	1,079,767	1,143,283	1,108,740	691,489	0	0	0	0	0	0
D	0	197,121	199,660	0	207,979	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	2,038,397	2,274,327	2,317,328	2,356,662	2,410,533	2,402,343	1,893,998	1,863,492	1,596,321	1,735,343	1,996,146	2,012,005	2,048,672
NM	2,069,398	1,875,970	1,893,593	1,913,488	1,947,314	2,041,767	2,634,998	2,726,380	3,029,043	2,943,887	2,727,577	2,752,834	2,783,810
Total	4,107,795	4,150,297	4,210,921	4,270,150	4,357,847	4,444,110	4,528,996	4,589,872	4,625,364	4,679,230	4,723,723	4,774,839	4,832,482

NM – Not Monitored

Figure SC-1

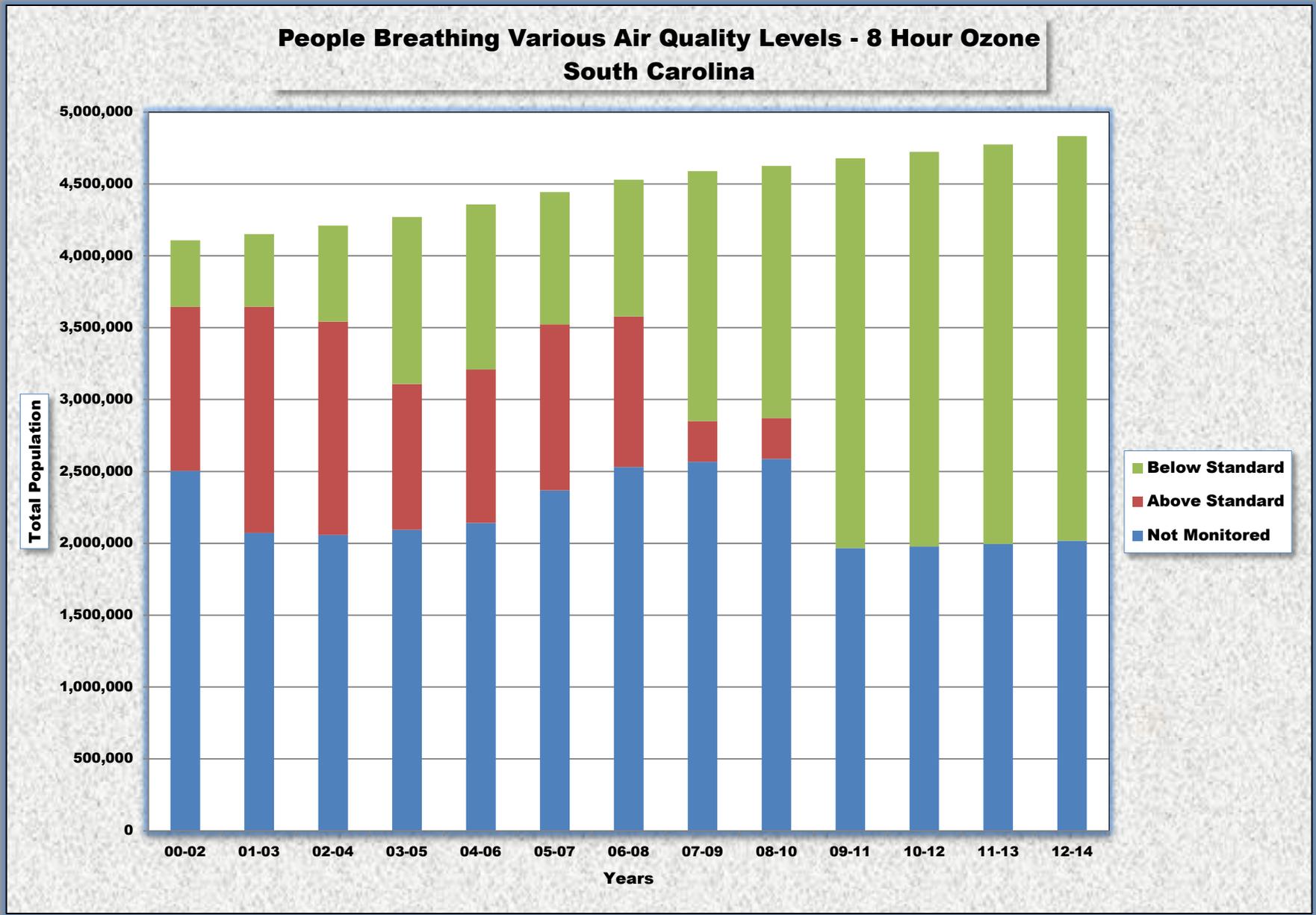


Figure SC-2

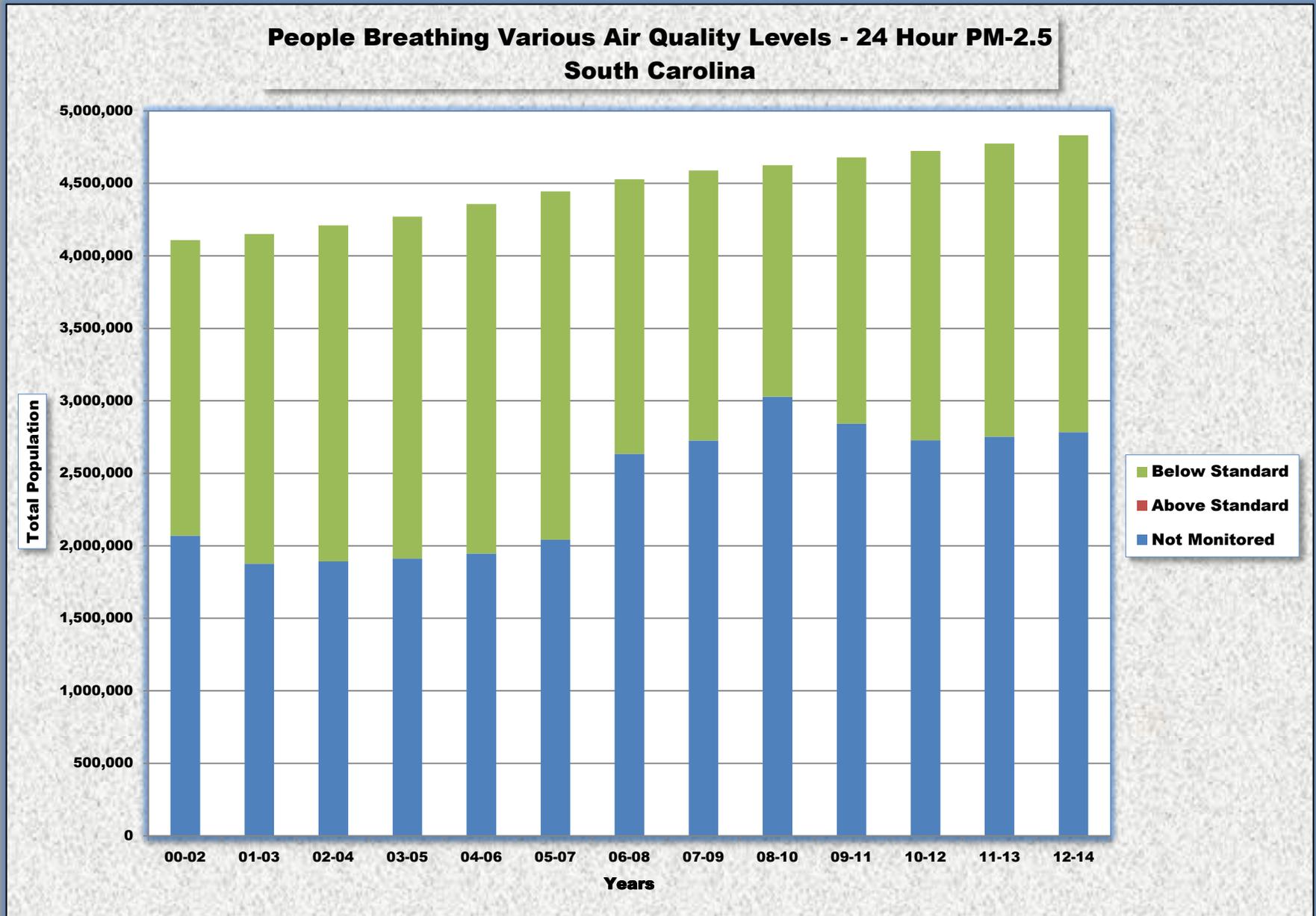
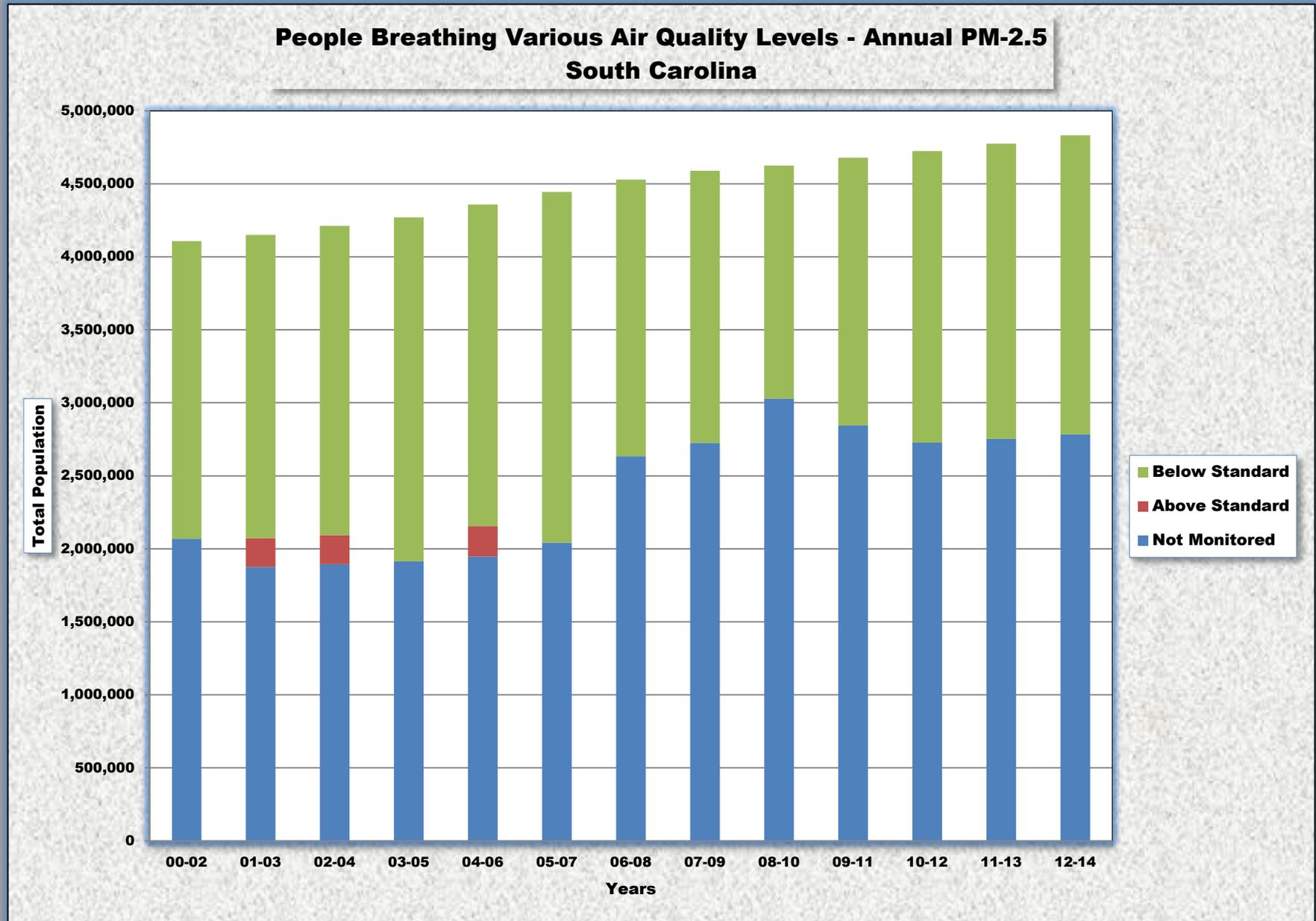


Figure SC-3



SOUTH DAKOTA

Ozone

Ozone levels in South Dakota have historically been better than the standard. In the 2000 – 2002 time period, there were no ozone monitors and no people lived in counties where measured air quality met the ozone standard. By 2012 – 2014 this had increased to approximately 0.36 million people (42.6%). The remainder of the population lived in counties where ozone was not measured. Figure SD-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in South Dakota have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.3 million people (40.8%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 0.4 million people (48.9%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure SD-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in South Dakota have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.3 million people (40.8%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 0.4 million people (48.9%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure SD-3 shows the distribution of people by year.

Table SD-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Brookings	33,314	0.063	B	N	22	A	8.2	A	N
Brown	38,408	ND	--	--	20	A	7.0	A	N
Codington	27,938	ND	--	--	19	A	8.4	A	N
Custer	8,445	0.062	B	N	10	A	3.5	A	N
Jackson	3,274	0.061	B	N	13	A	4.6	A	N
Meade	26,951	0.062	B	N	ND	--	ND	--	--
Minnehaha	182,882	0.068	C	N	21	A	7.8	A	Y
Pennington	108,242	ND	--	--	15	A	6.3	A	Y
Union	15,029	0.064	B	N	22	A	9.1	A	N
Subtotal	444,483								
Not Monitored	408,692								
Total	853,175								

DV – Design Value

ND - No Data

MM – Multiple Monitors

SOUTH DAKOTA

**Table SD-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	25,314	68,646	28,715	3,191	3,216	0
B	0	0	0	93,099	258,000	163,577	174,380	176,577	169,468	226,967	256,922	83,467	180,226
C	0	0	92,560	0	0	11,036	0	0	0	0	0	179,640	182,882
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	92,560	93,099	257,200	174,613	174,380	201,891	238,114	255,682	260,113	266,323	363,108
NM	760,020	763,729	677,836	682,394	525,833	617,010	624,744	605,176	576,066	568,400	573,241	578,554	490,067
Total	760,020	763,729	770,396	775,493	783,033	791,623	799,124	807,067	814,180	824,082	833,354	844,877	853,175

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	309,715	336,751	339,822	345,149	350,638	364,192	369,729	388,578	377,386	397,215	403,335	410,642	417,532
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	309,715	336,751	339,822	345,149	350,638	364,192	369,729	388,578	377,386	397,215	403,335	410,642	417,532
NM	450,305	426,978	430,574	430,344	433,195	427,431	429,395	418,489	436,794	426,867	430,019	434,235	435,643
Total	760,020	763,729	770,396	775,493	783,033	791,623	799,124	807,067	814,180	824,082	833,354	844,877	853,175

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	309,715	336,751	339,822	345,149	350,638	364,192	369,729	388,578	377,386	397,215	403,335	382,789	417,532
B	0	0	0	0	0	0	0	0	0	0	0	27,853	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	309,715	336,751	339,822	345,149	350,638	364,192	369,729	388,578	377,386	397,215	403,335	410,642	417,532
NM	450,305	426,978	430,574	430,344	433,195	427,431	429,395	418,489	436,794	426,867	430,019	434,235	435,643
Total	760,020	763,729	770,396	775,493	783,033	791,623	799,124	807,067	814,180	824,082	833,354	844,877	853,175

NM –Not Monitored

Figure SD-1

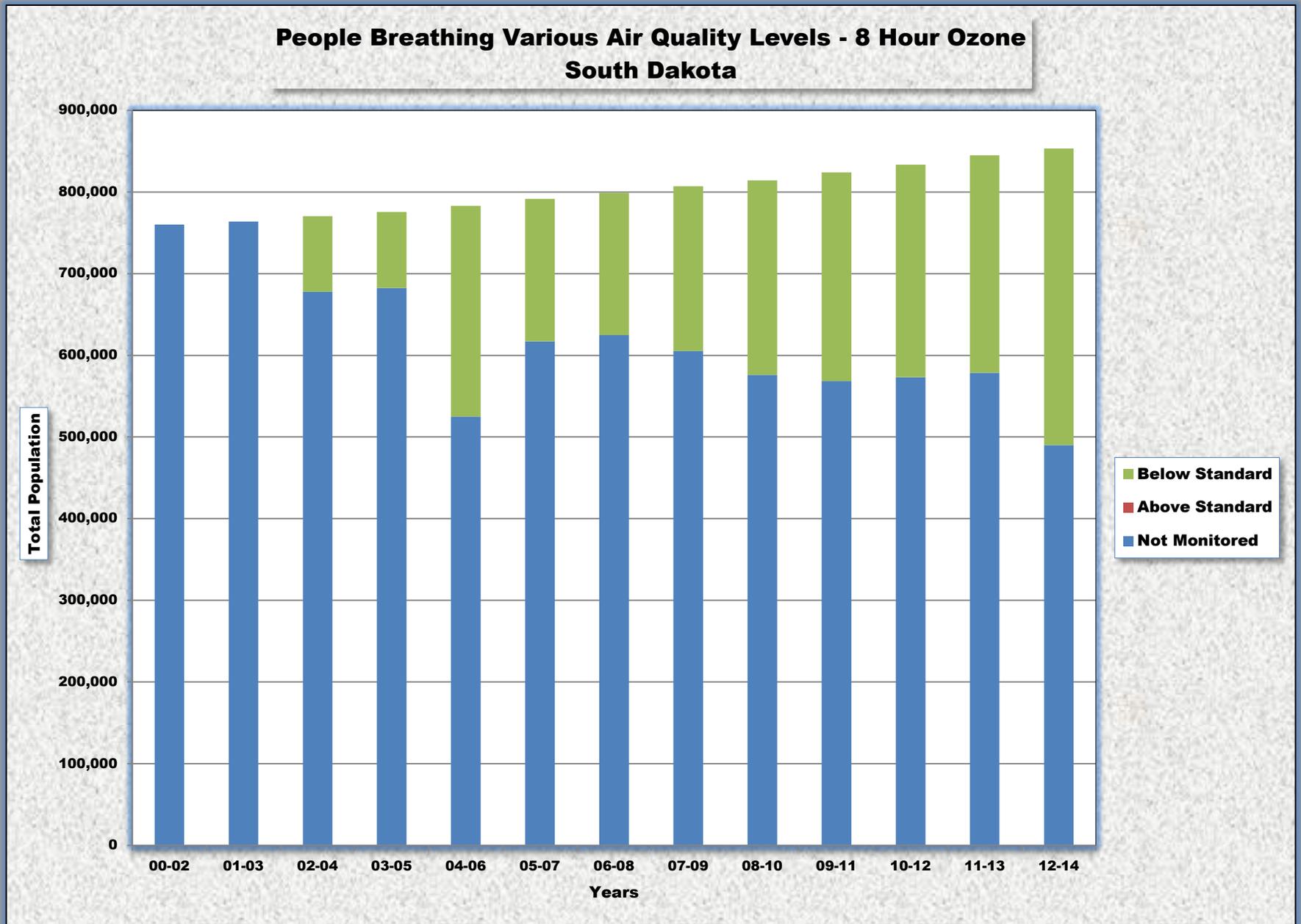


Figure SD-2

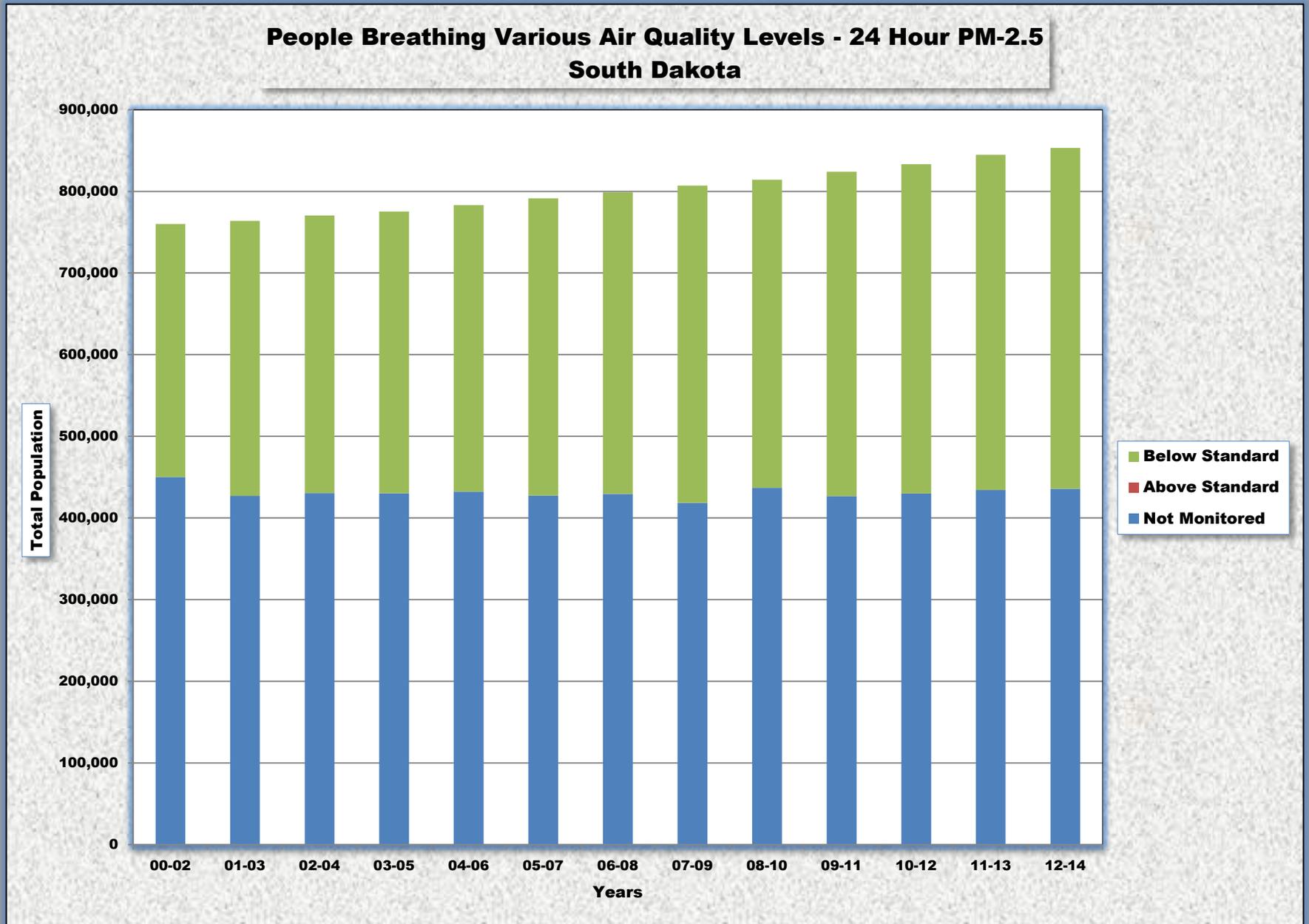
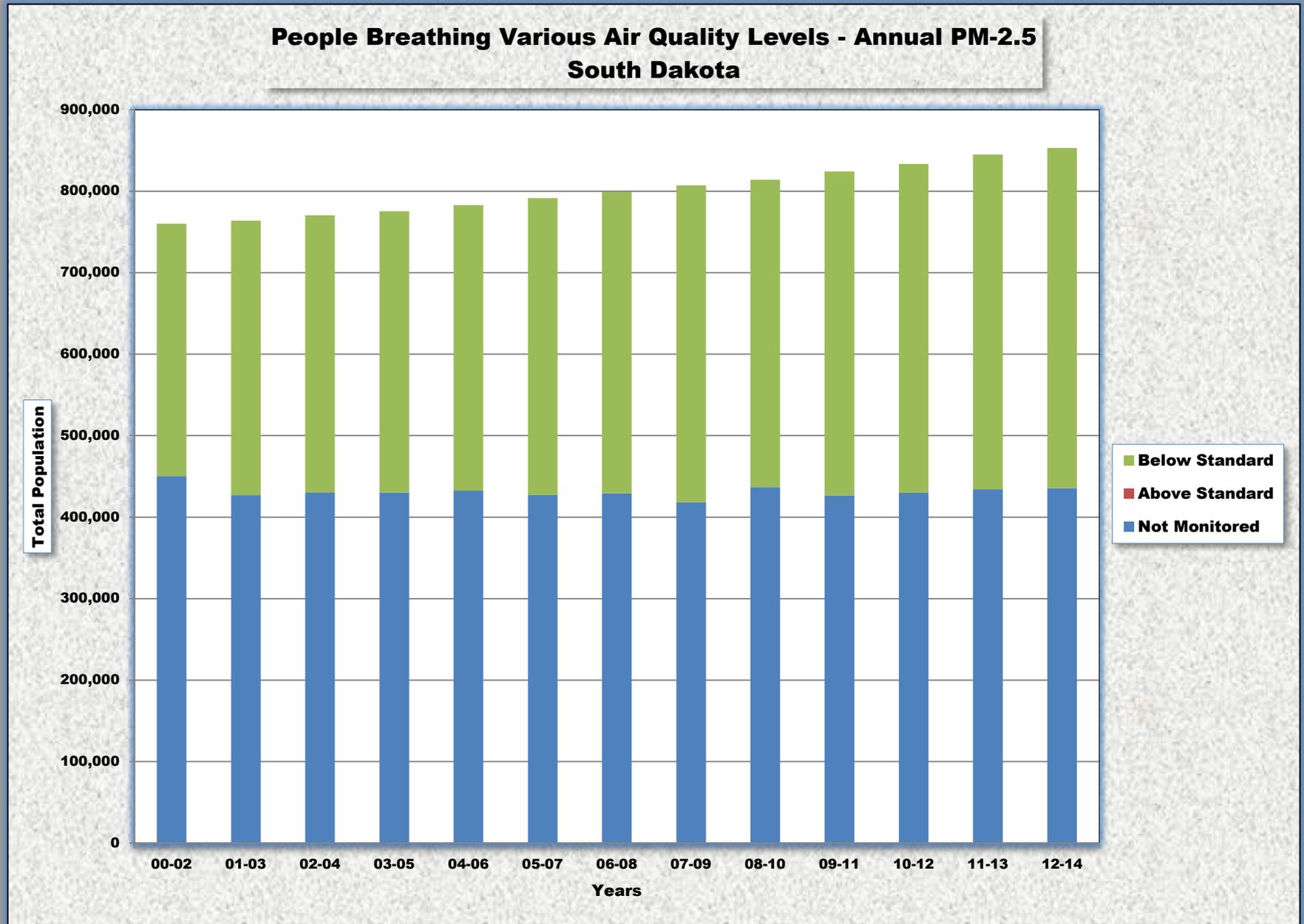


Figure SD-3



TENNESSEE

Ozone

Significant progress has been made in ozone levels in Tennessee. In the 2000 – 2002 time period, 0.26 million people (4.4%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 3.5 million people (53.0%). Figure TN-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Tennessee. In the 2000 – 2002 time period, approximately 2.1 million people (35.5%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 3.5 million people (54.2%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure TN-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in Tennessee. In the 2000 – 2002 time period, approximately 1.8 million people (30.4%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 3.5 million people (54.2%). Figure TN-3 shows the distribution of people by year.

TENNESSEE

**Table TN-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Anderson	75,528	0.064	B	N	ND	--	ND	--	--
Blount	126,339	0.063	B	Y	18	A	8.9	A	N
Claiborne	31,592	0.063	B	N	ND	--	ND	--	--
Davidson	668,347	0.068	C	Y	20	A	10.0	B	Y
DeKalb	19,268	0.067	B	N	ND	--	ND	--	--
Dyer	37,935	ND	--	--	18	A	8.9	A	N
Hamilton	351,220	0.065	B	Y	19	A	9.4	A	Y
Jefferson	52,677	0.071	C	N	ND	--	ND	--	--
Knox	448,644	0.065	B	Y	19	A	10.0	B	Y
Lawrence	42,274	NF	--	--	17	A	8.0	A	N
Loudon	50,771	ND	--	--	18	A	9.6	B	N
McMinn	52,626	ND	--	--	18	A	9.0	A	N
Madison	98,178	ND	--	--	17	A	8.6	A	Y
Maury	85,575	ND	--	--	16	A	8.3	A	N
Montgomery	189,961	ND	--	--	20	A	9.3	A	N
Putnam	74,165	ND	--	--	18	A	8.6	A	N
Roane	52,748	ND	--	--	19	A	10.1	B	Y
Sevier	95,110	0.068	C	N	ND	--	ND	--	--
Shelby	938,803	0.072	C	Y	19	A	9.1	A	Y
Sullivan	157,047	0.067	B	Y	16	A	8.7	A	N
Sumner	172,706	0.072	C	N	19	A	9.4	A	N
Williamson	205,226	0.066	B	N	ND	--	ND	--	--
Wilson	125,376	0.067	B	N	ND	--	ND	--	--
Subtotal	4,152,116								
Not Monitored	2,397,236								
Total	6,549,352								

DV – Design Value

ND - No Data

MM – Multiple Monitors

TENNESSEE

**Table TN-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	291,507	152,562	59,114	0	0	310,504	626,681	904,396	0	287,608	1,795,890
C	257,108	288,619	56,576	539,219	966,965	362,491	295,246	2,013,300	2,061,673	2,243,515	2,019,009	1,969,414	1,671,993
D	352,389	836,493	1,777,155	2,174,199	2,422,975	2,653,853	4,251,595	1,168,536	911,652	61,951	1,230,617	795,198	0
F	2,693,362	2,239,893	1,193,688	259,785	339,477	423,681	138,858	0	0	0	0	0	0
Subtotal	3,302,859	3,365,005	3,318,926	3,325,765	3,788,531	3,340,025	5,185,699	4,492,340	3,600,005	3,214,862	3,249,536	3,052,220	3,467,883
NM	2,494,059	2,482,807	2,591,883	2,665,292	2,300,235	2,835,702	1,061,712	1,813,679	2,746,100	3,193,491	3,206,607	3,443,758	3,081,469
Total	5,796,918	5,847,812	5,910,809	5,991,057	6,088,766	6,175,727	6,247,411	6,306,019	6,346,105	6,408,353	6,456,143	6,495,978	6,549,352

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	425,705	317,901	352,123	324,784	1,401,703	3,173,128	3,422,591	3,458,584	3,497,369	3,518,121	3,547,279
B	715,794	971,179	1,319,012	587,581	1,106,530	711,491	1,292,381	222,961	0	0	0	0	0
C	1,341,030	1,503,568	749,551	1,415,470	1,661,884	1,712,908	174,000	0	0	0	0	0	0
D	750,358	0	0	202,117	0	0	0	0	0	0	0	0	0
F	206,394	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	3,013,076	2,474,747	2,494,278	2,523,069	3,130,537	2,646,183	2,868,084	3,396,089	3,422,590	3,463,564	3,497,269	3,518,121	3,547,279
NM	2,783,842	3,373,065	3,416,531	3,467,988	2,958,229	3,426,544	3,379,327	2,909,930	2,923,515	2,944,789	2,958,874	2,977,857	3,002,073
Total	5,796,918	5,847,812	5,910,809	5,991,057	6,088,766	6,072,727	6,247,411	6,306,019	6,346,105	6,408,353	6,456,143	6,495,978	6,549,352

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	226,683	305,527	40,794	10,173	230,280	385,746	2,467,513	2,622,062	3,168,616	3,360,307	1,618,564	2,227,278
B	262,540	355,045	1,035,820	565,971	933,765	911,997	2,109,558	451,161	336,707	0	137,062	1,641,882	1,302,418
C	1,507,177	1,185,676	887,393	1,512,070	1,599,007	1,560,613	372,780	477,415	0	0	0	239,993	17,583
D	984,231	707,342	265,538	404,234	456,992	46,294	0	0	0	0	0	17,682	0
F	259,629	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	3,013,577	2,474,746	2,494,278	2,523,080	3,130,537	2,646,184	2,868,084	3,396,089	2,958,768	3,173,616	3,497,269	3,518,121	3,547,279
NM	2,783,341	3,373,066	3,416,531	3,467,977	2,958,229	3,426,543	3,379,327	2,909,930	3,387,337	3,234,737	2,958,874	2,977,857	3,002,073
Total	5,796,918	5,847,812	5,910,809	5,991,057	6,088,766	6,072,727	6,247,411	6,306,019	6,346,105	6,408,353	6,456,143	6,495,978	6,549,352

NM – Not Monitored

Figure TN-1

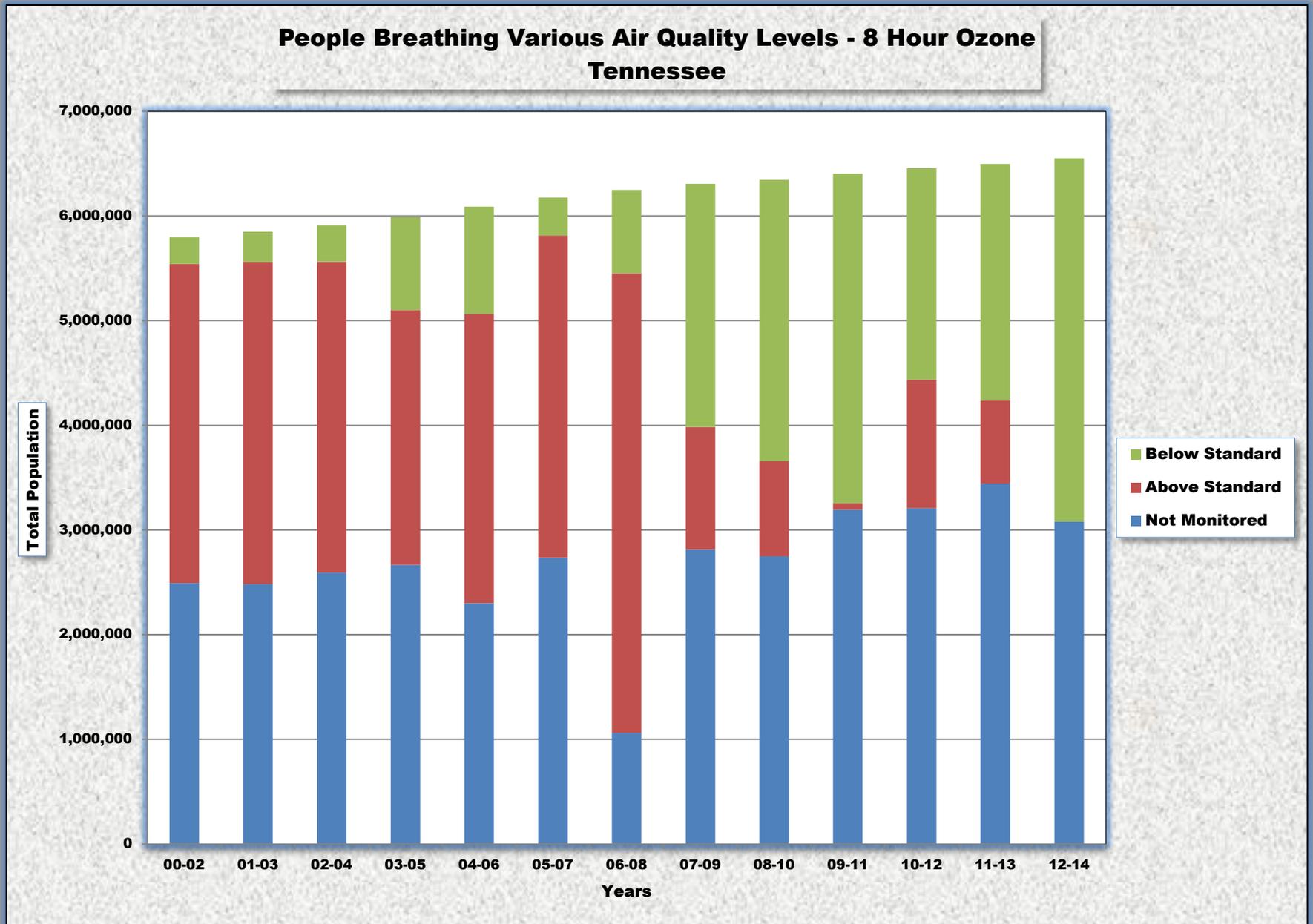


Figure TN-2

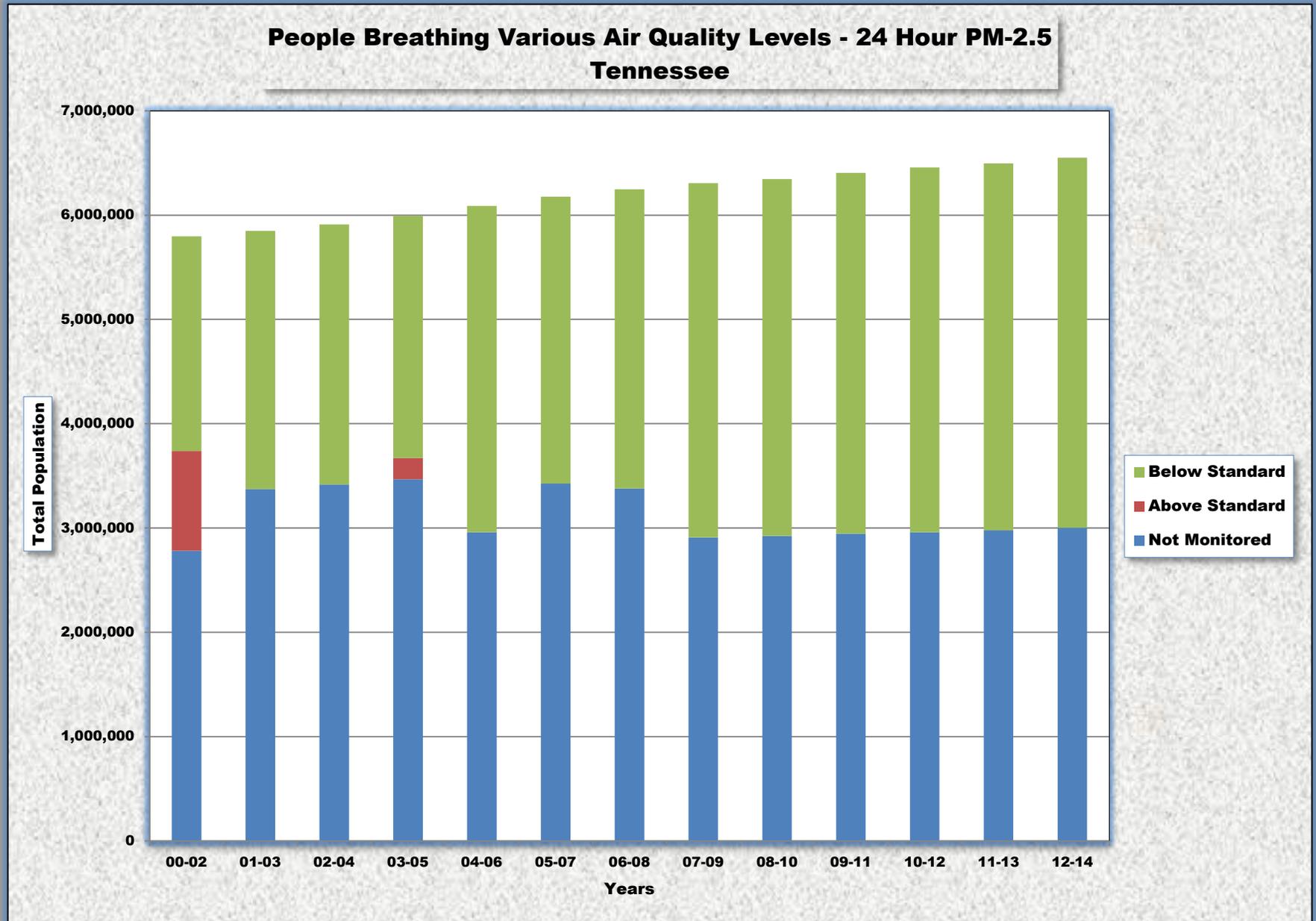
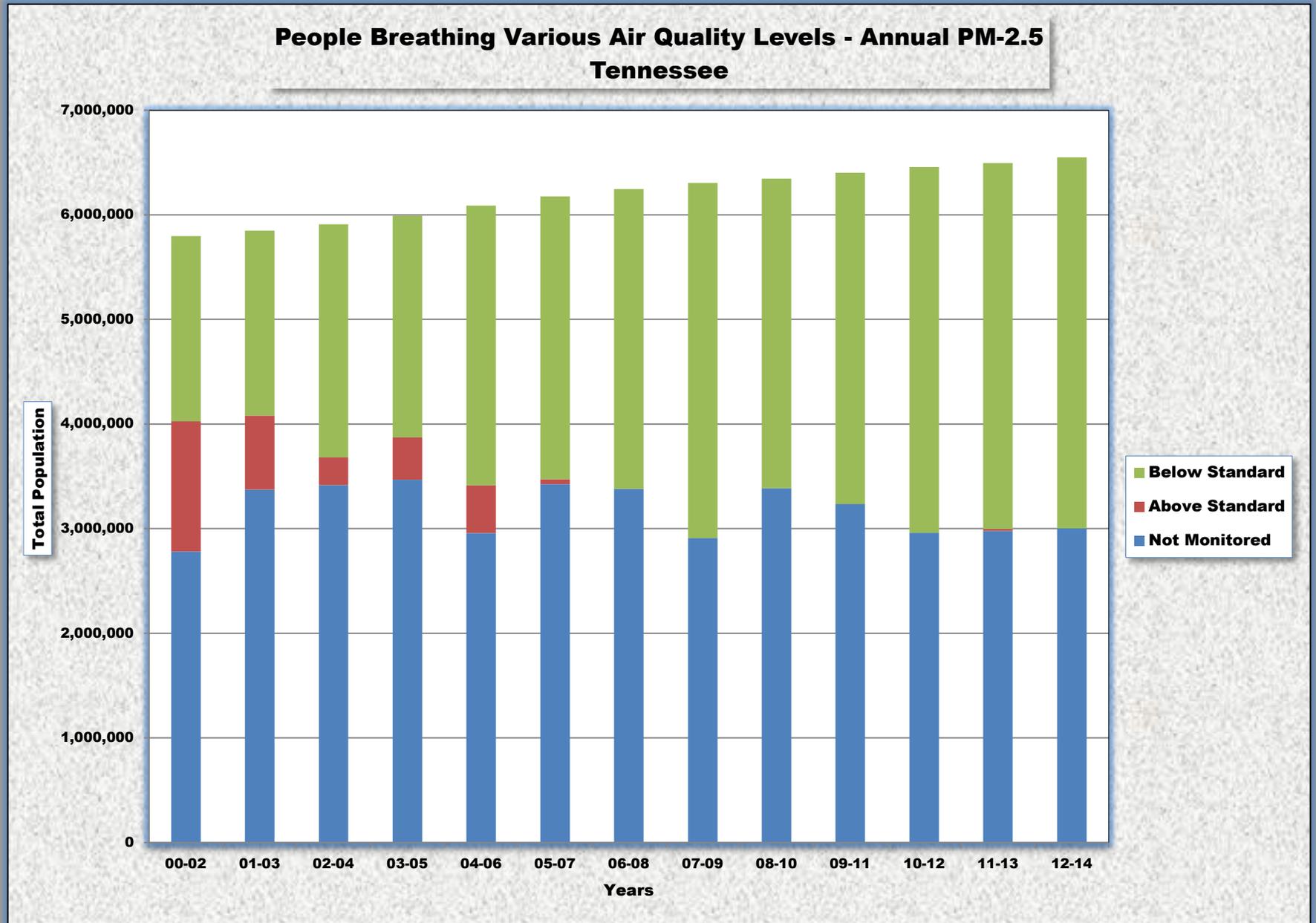


Figure TN-3



TEXAS

Ozone

Significant progress has been made in ozone levels in Texas. In the 2000 – 2002 time period, 1.5 million people (6.7%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 12.9 million people (47.7%). Figure TX-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Texas were better than the standard in both 2000 – 2002 and 2012 - 2014. In the 2000 – 2002 time period, approximately 14.1 million people (65.2%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 13.4 million people (49.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure TX-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Texas were better than the standard in both 2000 – 2002 and 2012 - 2014. In the 2000 – 2002 time period, approximately 14.1 million people (56.2%) lived in counties where annual PM-2.5 levels met the standard. By 2012– 2014 this had decreased to approximately 13.4 million people (49.8%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure TX-3 shows the distribution of people by year.

TEXAS

**Table TX-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Bell	329,140	0.072	C	N	ND	--	ND	--	--
Bexar	1,855,866	0.074	C	Y	21	A	8.5	A	Y
Bowie	93,275	ND	--	--	22	A	10.2	B	N
Brazoria	338,124	0.072	C	Y	ND	--	ND	--	--
Brewster	9,173	0.065	B	N	ND	--	ND	--	--
Cameron	420,392	0.058	A	N	ND	--	ND	--	--
Collin	885,241	0.078	D	N	ND	--	ND	--	--
Dallas	2,518,638	0.076	D	Y	23	A	10.2	B	Y
Denton	753,363	0.080	D	Y	ND	--	ND	--	--
Ellis	159,317	0.069	C	Y	22	A	9.6	B	N
El Paso	833,487	0.065	B	Y	17	A	8.1	A	N
Galveston	314,198	0.072	C	N	ND	--	ND	--	--
Gregg	123,204	0.071	C	N	ND	--	ND	--	--
Harris	4,441,370	0.071	C	Y	23	A	11.2	C	Y
Harrison	67,336	0.069	C	N	22	A	9.6	B	N
Hidalgo	831,073	0.057	A	N	ND	--	ND	--	--
Hood	53,921	0.076	D	N	ND	--	ND	--	--
Hunt	88,493	0.069	C	N	ND	--	ND	--	--
Jefferson	252,235	0.066	B	Y	ND	--	ND	--	--
Johnson	157,456	0.076	D	N	ND	--	ND	--	--
Kaufman	111,236	0.070	C	N	ND	--	ND	--	--
McLennan	243,441	0.069	C	N	ND	--	ND	--	--
Montgomery	518,947	0.076	D	N	ND	--	ND	--	--
Navarro	48,195	0.068	C	N	ND	--	ND	--	--
Nueces	356,221	0.065	B	Y	27	A	9.7	B	Y
Orange	83,433	0.066	B	Y	ND	--	ND	--	--
Parker	123,164	0.074	C	N	ND	--	ND	--	--
Randall	128,220	0.070	C	N	ND	--	ND	--	--
Rockwall	87,809	0.073	C	N	ND	--	ND	--	--
Smith	218,842	0.071	C	N	ND	--	ND	--	--
Tarrant	1,945,360	0.078	D	Y	23	A	10.3	B	Y
Travis	1,151,145	0.068	C	Y	22	A	8.6	A	Y
Victoria	91,081	0.063	B	N	ND	--	ND	--	--
Subtotal	19,632,396								
Not Monitored	7,324,562								
Total	26,956,958								

DV – Design Value

ND - No Data

MM – Multiple Monitors

TEXAS

**Table TX-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	608,634	1,003,376	0	398,905	0	407,998	1,418,162
B	870,400	570,278	920,047	570,024	1,313,618	1,513,293	1,003,851	3,591,949	2,512,177	1,808,807	1,187,589	1,288,449	2,255,237
C	583,838	601,341	973,185	1,776,272	1,050,388	1,351,317	4,045,447	6,862,939	7,680,166	6,671,903	4,387,029	5,336,098	9,196,144
D	1,958,894	3,570,504	2,635,051	2,855,156	3,021,711	5,008,851	6,467,925	4,333,594	6,769,842	6,707,331	10,209,123	7,770,654	6,669,578
F	10,597,892	9,806,877	10,693,566	10,509,792	10,898,819	8,516,507	4,755,496	1,700,499	979,392	2,596,818	2,410,733	4,166,868	0
Subtotal	14,011,024	14,549,000	15,221,849	15,711,244	16,284,536	16,389,968	16,881,353	17,492,357	17,941,577	18,183,764	18,194,474	18,970,067	19,539,121
NM	7,679,301	7,481,931	7,172,174	7,066,879	7,075,044	7,442,015	7,427,686	7,309,404	7,203,984	7,490,917	7,864,729	7,478,126	7,417,837
Total	21,690,325	22,030,931	22,394,023	22,778,123	23,359,580	23,831,983	24,309,039	24,801,761	25,145,561	25,674,681	26,059,203	26,448,193	26,956,958

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	5,471,604	5,303,220	3,910,844	7,484,319	7,709,357	8,330,427	11,500,663	11,223,384	13,092,550	13,953,852	13,976,904	13,404,686	13,243,905
B	6,066,963	6,405,134	5,973,543	2,964,999	1,359,380	1,378,237	256,660	782,126	789,380	0	173,846	176,054	178,110
C	2,599,712	1,164,993	748,007	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	377,789	0	0	0	0	0	0	0
F	0	176,300	358,826	728,095	744,795	0	256,660	262,253	0	0	0	0	0
Subtotal	14,138,279	13,049,647	10,991,020	11,177,413	9,813,532	10,086,453	12,013,983	12,267,763	13,884,930	13,953,852	14,150,750	13,580,740	13,422,015
NM	7,552,046	8,981,284	11,403,003	11,600,710	13,546,048	13,745,530	12,295,056	12,533,998	11,263,631	11,720,829	11,908,453	12,867,453	13,534,943
Total	21,690,325	22,030,931	22,394,023	22,778,123	23,359,580	23,831,983	24,309,039	24,801,761	25,145,561	25,674,681	26,059,203	26,448,193	26,956,958

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	9,396,517	7,219,125	5,689,759	5,085,189	5,681,734	6,278,682	9,040,254	9,315,599	12,517,777	12,560,221	12,732,849	2,554,141	4,018,608
B	3,772,655	4,286,548	3,963,401	3,516,259	2,117,858	2,142,201	1,404,209	1,344,955	1,364,153	0	1,417,900	4,621,862	4,962,037
C	969,108	1,367,675	979,034	1,647,870	1,269,145	0	1,312,860	1,344,955	266,882	0	0	6,404,737	4,441,370
D	0	0	0	0	0	1,287,781	0	262,253	0	0	0	0	0
F	0	176,300	358,826	728,095	744,795	377,789	256,660	0	0	0	0	0	0
Subtotal	14,138,280	13,049,647	10,991,020	10,977,413	9,813,532	10,086,453	12,013,983	12,267,762	14,148,812	12,560,221	14,150,739	13,166,881	13,422,015
NM	7,552,045	8,981,284	11,403,003	11,800,710	13,546,048	13,745,530	12,295,056	12,533,999	10,996,749	13,114,460	11,908,464	12,867,453	13,534,943
Total	21,690,325	22,030,931	22,394,023	22,778,123	23,359,580	23,831,983	24,309,039	24,801,761	25,145,561	25,674,681	26,059,203	26,448,193	26,956,958

NM – Not Monitored

Figure TX-1

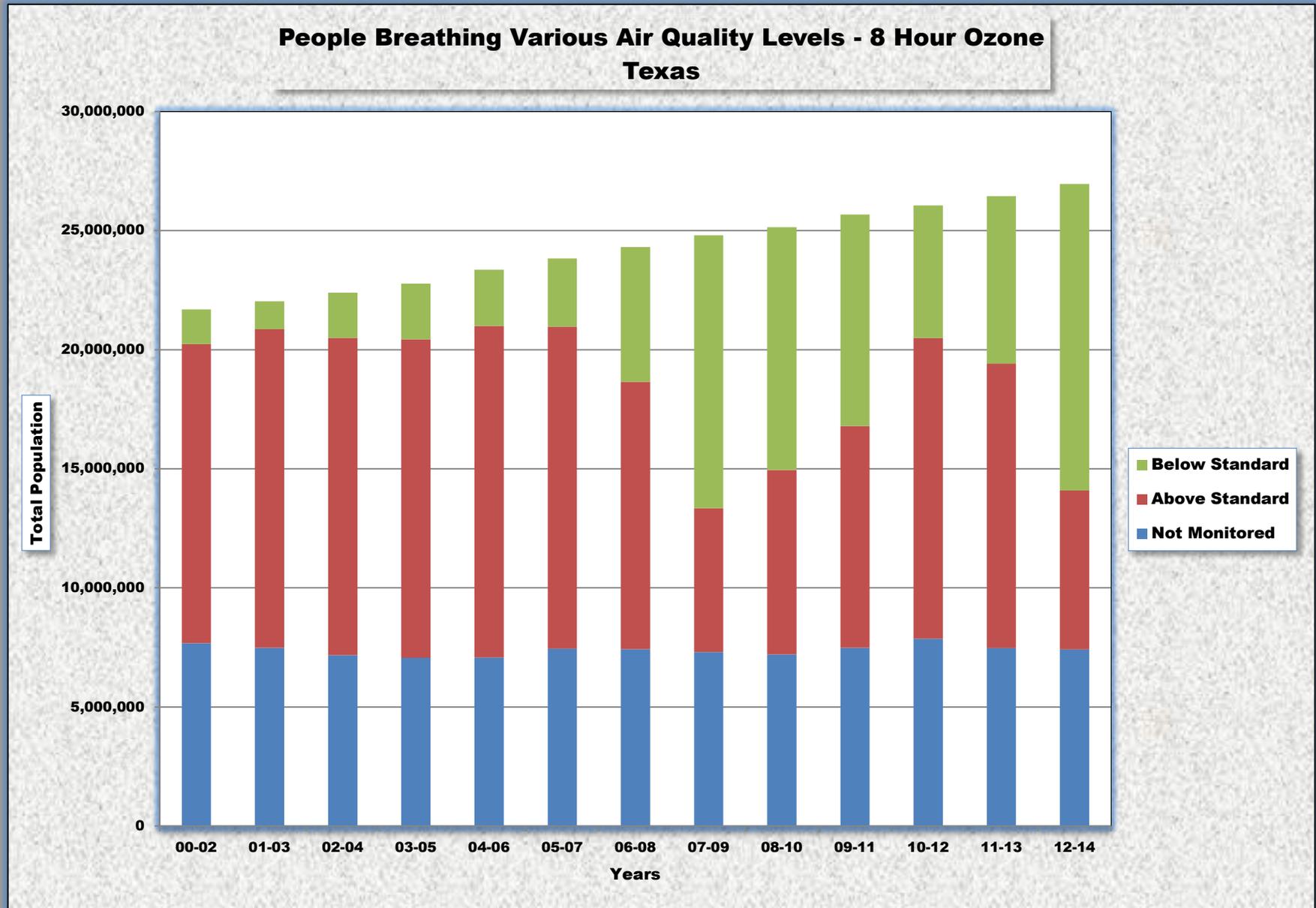


Figure TX-2

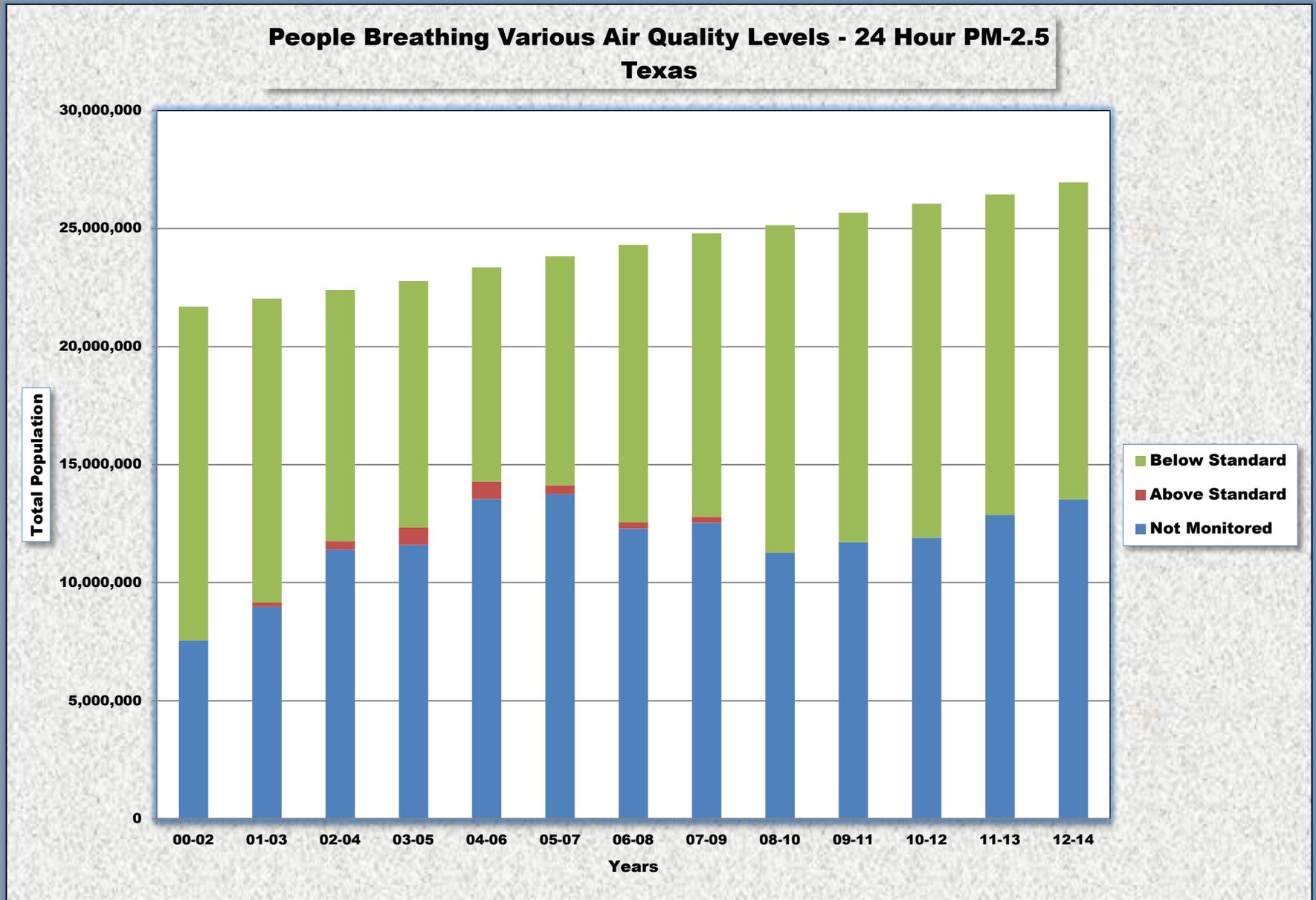
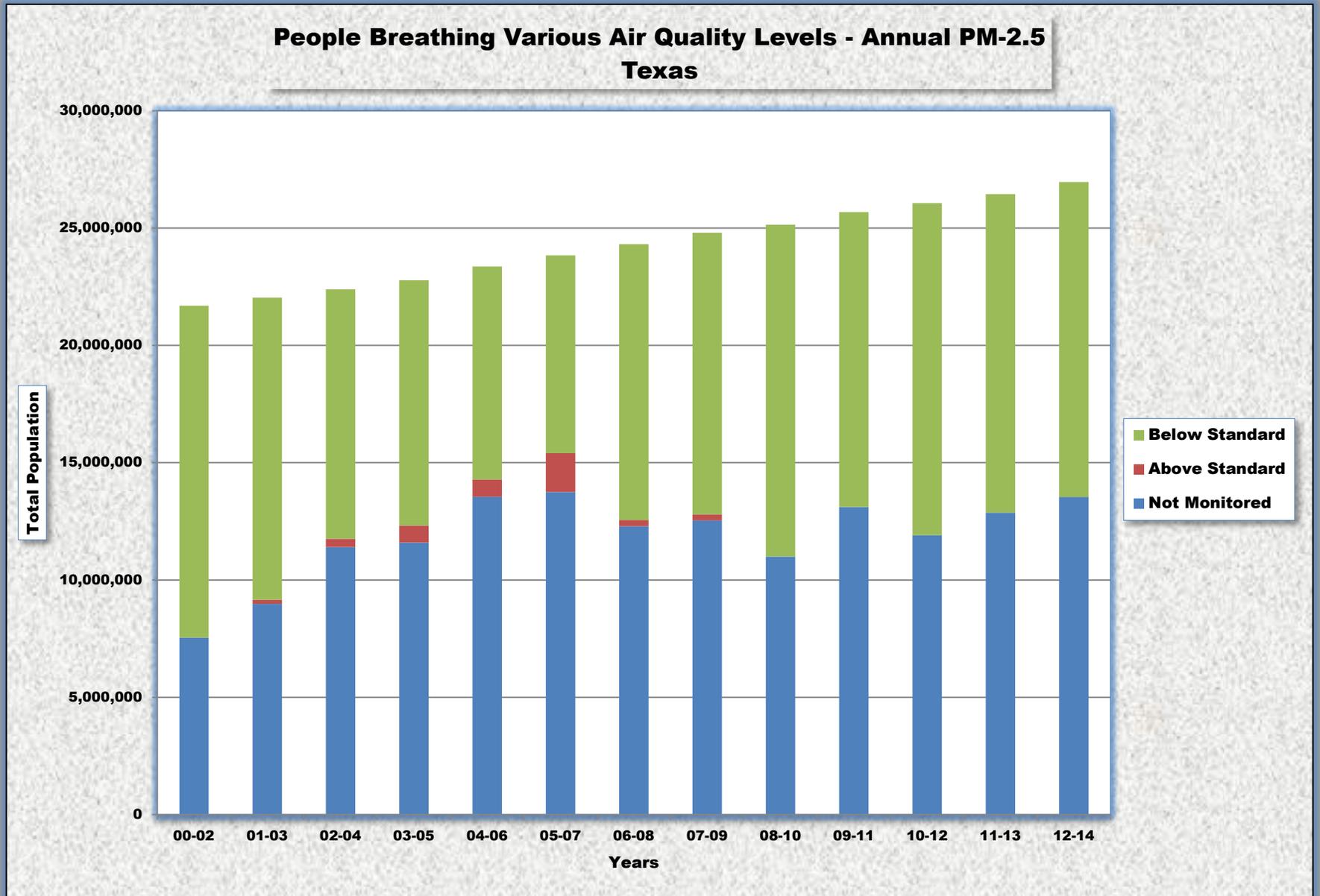


Figure TX-3



UTAH

Ozone

Significant progress has been made in ozone levels in Utah. In the 2000 – 2002 time period, 0.4 million people (16.1%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 2.6 million people (90.0%). Figure UT-1 shows the distribution of people by year.

24-Hour PM-2.5

Progress has been made in 24-hour PM-2.5 levels in Utah. In the 2000 – 2002 time period, approximately 0.14 million people (6.2%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 0.67 million people (22.6%). Figure UT-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Utah have historically been better than the standard. In the 2000 – 2002 time period, approximately 1.8 million people (78.0%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 2.5 million people (83.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure UT-3 shows the distribution of people by year.

Table UT-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Box Elder	51,518	0.070	C	N	37	D	7.7	A	N
Cache	118,343	0.065	B	N	44	F	9.2	A	N
Carbon	20,660	0.068	C	N	ND	--	ND	--	--
Davis	329,692	0.070	C	N	38	D	8.1	A	N
Duchesne	20,380	0.077	D	N	ND	--	ND	--	--
Garfield	5,024	0.065	B	N	ND	--	ND	--	--
Salt Lake	1,091,742	0.073	C	Y	40	F	8.9	A	Y
San Juan	15,251	0.067	B	N	ND	--	ND	--	--
Tooele	61,598	0.071	C	N	29	B	6.2	A	N
Uintah	36,867	0.079	D	Y	ND	--	ND	--	--
Utah	560,874	0.074	C	Y	43	F	8.8	A	Y
Washington	151,948	0.070	C	N	ND	--	ND	--	--
Weber	240,475	0.071	C	Y	33	C	9.1	A	N
Subtotal	2,704,372								
Not Monitored	238,530								
Total	2,942,902								

DV – Design Value

ND - No Data

MM – Multiple Monitors

UTAH

**Table UT-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	97,101	98,854	100,501	101,236	0	0	143,222	170,232	501,072	134,764	116,909	138,618
C	373,948	936,857	952,162	535,467	485,287	406,454	847,773	2,007,906	2,320,001	2,038,613	2,432,510	1,967,990	2,508,607
D	1,503,270	657,541	664,381	1,112,086	1,607,686	1,851,764	1,519,030	301,965	0	0	23,016	539,861	38,814
F	0	0	0	0	0	0	0	0	0	0	11,508	35,555	18,433
Subtotal	1,877,218	1,691,499	1,715,397	1,748,054	2,194,209	2,258,218	2,366,803	2,453,093	2,490,233	2,539,685	2,601,798	2,660,315	2,704,472
NM	447,597	668,698	686,183	709,665	331,298	339,528	296,226	270,328	273,652	277,537	253,489	240,557	238,430
Total	2,324,815	2,360,197	2,401,580	2,457,719	2,525,507	2,597,746	2,663,029	2,723,421	2,763,885	2,817,222	2,855,287	2,900,872	2,942,902

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	196,744	55,909	57,218	58,218	200,992	204,679	0	0
B	0	0	0	0	0	101,014	381,621	388,304	129,141	0	626,297	60,762	61,598
C	144,296	452,810	51,949	273,134	232,018	341,788	295,801	0	601,500	526,495	1,146,218	801,261	604,389
D	0	101,540	135,193	285,399	619,781	707,939	467,970	542,224	587,690	294,043	549,972	170,054	381,210
F	1,668,766	1,633,330	689,333	1,445,077	1,201,934	811,249	902,860	1,280,814	928,234	1,470,166	0	1,388,614	1,407,145
Subtotal	1,813,062	2,187,680	876,475	2,003,610	2,053,733	2,158,734	2,104,161	2,268,560	2,304,783	2,491,696	2,528,166	2,420,691	2,454,342
NM	511,753	172,517	1,525,105	454,109	471,774	439,012	558,868	454,861	459,102	325,526	328,121	480,181	488,560
Total	2,324,815	2,360,197	2,401,580	2,457,719	2,525,507	2,597,746	2,663,029	2,723,421	2,763,885	2,817,222	2,855,287	2,900,872	2,942,902

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	694,909	1,189,460	474,233	1,429,127	1,630,232	2,158,734	2,228,815	2,268,560	2,304,783	2,491,696	2,527,165	1,824,615	2,090,428
B	688,614	462,401	318,997	416,489	262,369	0	0	0	0	0	0	596,076	363,914
C	229,538	231,201	83,244	157,994	161,133	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	1,813,061	1,883,062	876,474	2,003,610	2,053,734	2,158,734	2,228,815	2,268,560	2,304,783	2,491,696	1,927,165	2,420,691	2,454,342
NM	511,754	477,135	1,525,106	454,109	471,773	439,012	434,214	454,861	459,102	325,526	928,122	480,181	488,560
Total	2,324,815	2,360,197	2,401,580	2,457,719	2,525,507	2,597,746	2,663,029	2,723,421	2,763,885	2,817,222	2,855,287	2,900,872	2,942,902

NM – Not Monitored

Figure UT-1

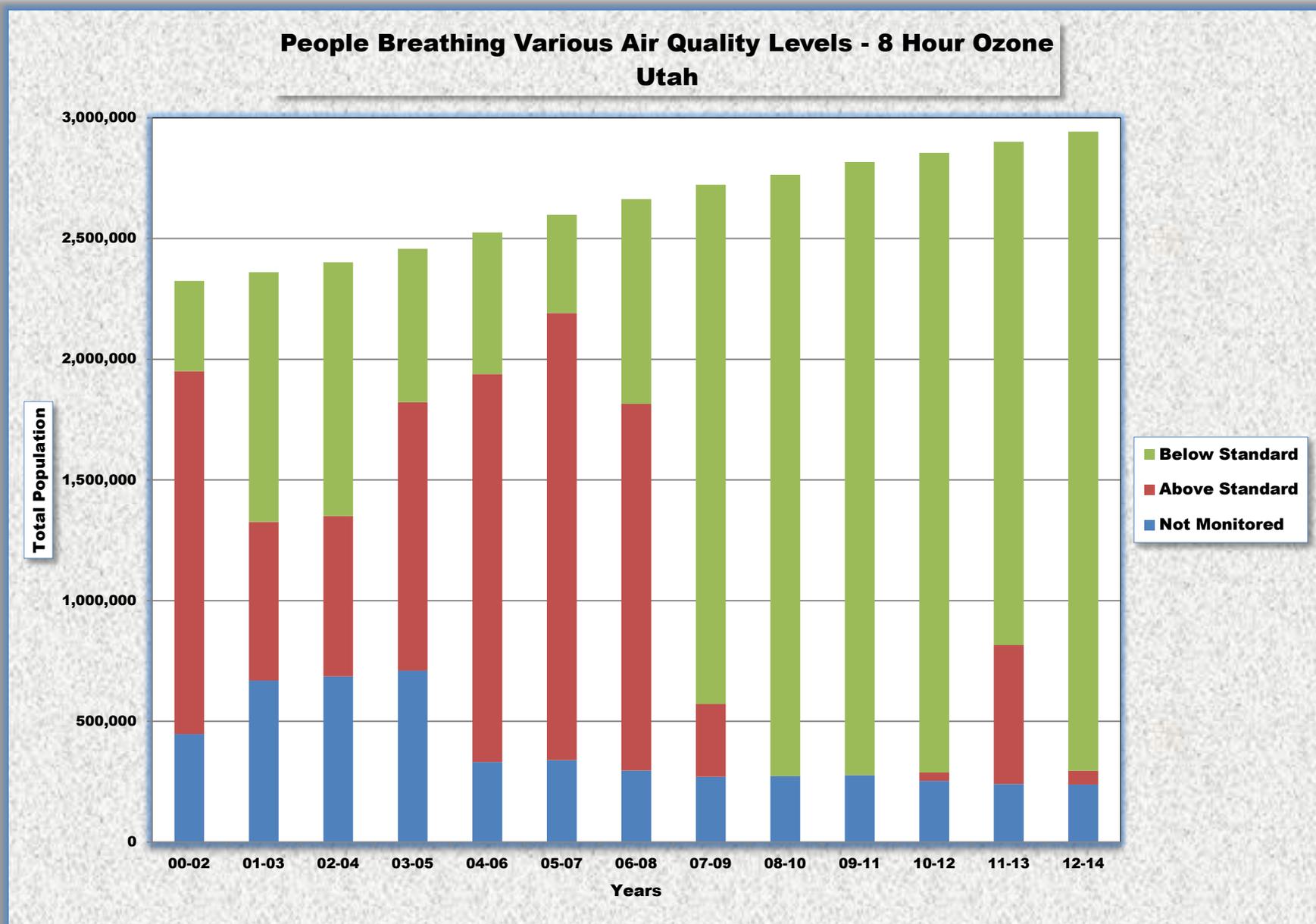


Figure UT-2

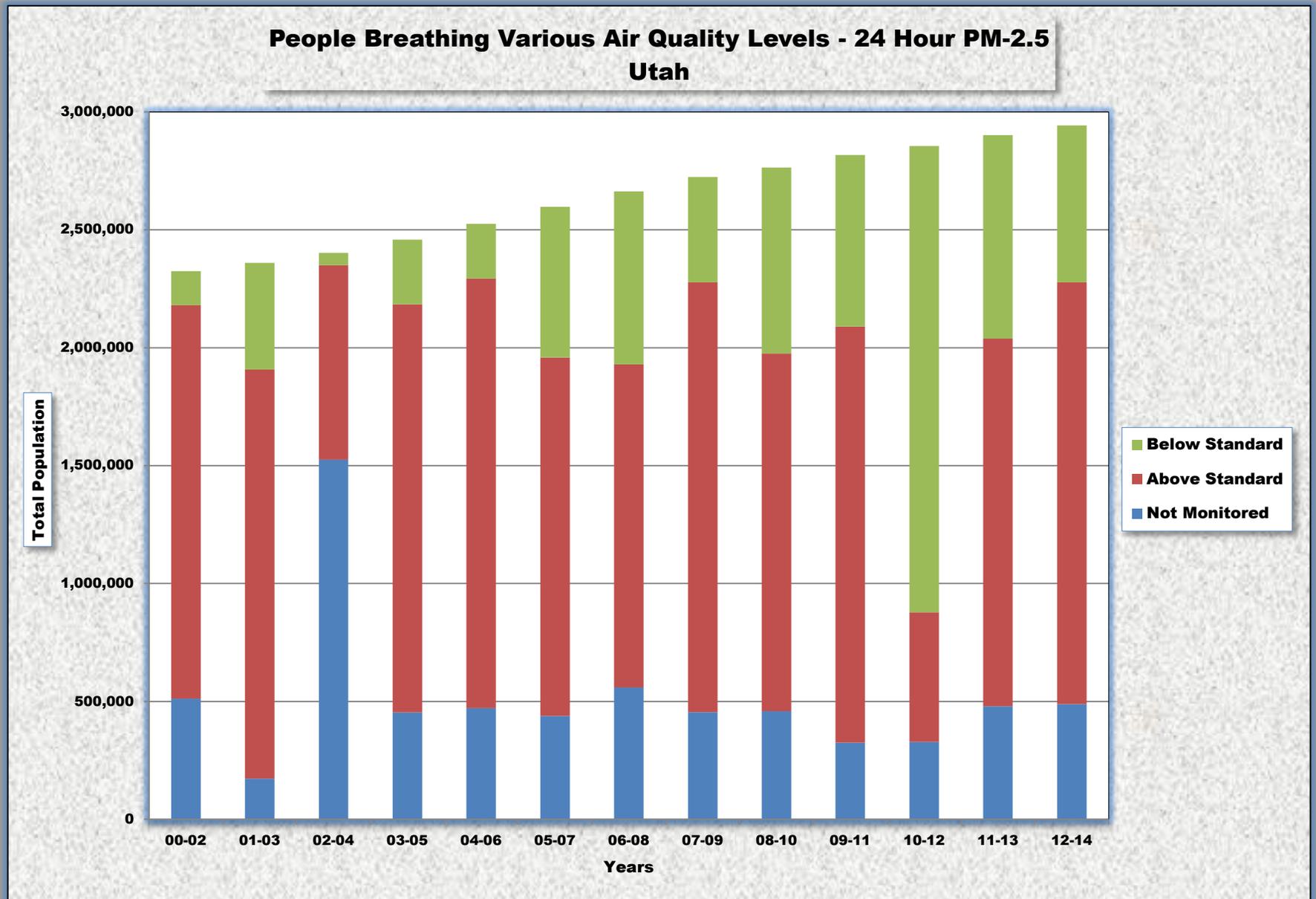
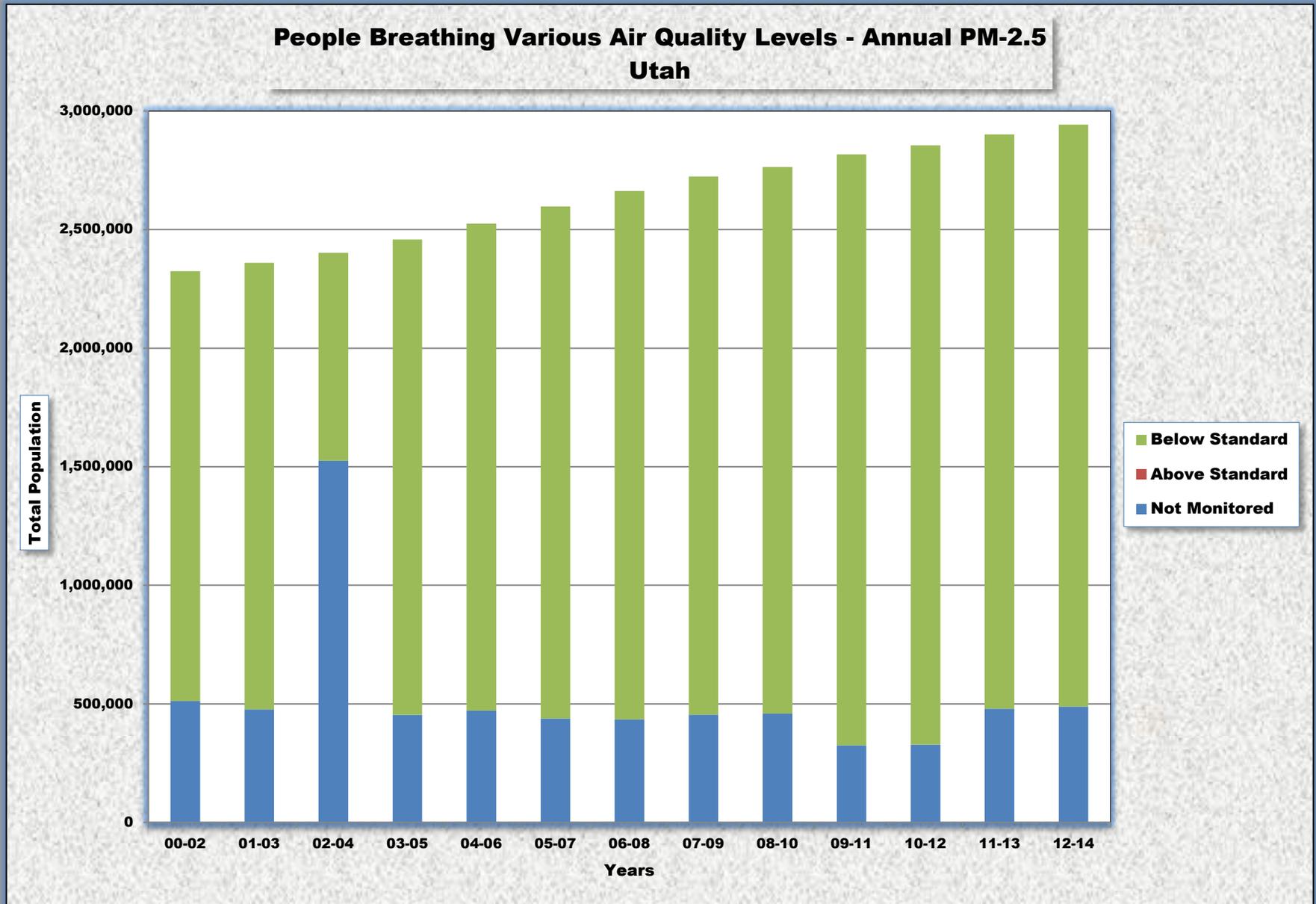


Figure UT-3



VERMONT

Ozone

Significant progress has been made in ozone levels in Vermont. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 0.2 million people (31.4%). The remainder of the population lived in counties where ozone was not measured. Figure VT-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Vermont have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.3 million people (50.1%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 0.3 million people (41.0%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure VT-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Vermont have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.3 million people (50.1%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this was approximately 0.3 million people (41.0%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure VT-3 shows the distribution of people by year.

**Table VT-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Bennington	36,445	0.063	B	N	15	A	6.3	A	N
Chittenden	160,531	0.062	B	N	15	A	6.0	A	Y
Rutland	60,086	ND	--	--	23	A	8.6	A	N
Subtotal	257,062								
Not Monitored	369,500								
Total	626,562								

DV – Design Value

ND - No Data

MM – Multiple Monitors

VERMONT

**Table VT-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0	0	156,545	194,461	195,201	196,174	196,976
C	0	0	0	189,123	189,988	190,702	191,827	192,944	37,125	0	0	0	0
D	186,744	187,493	188,507	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	186,844	187,493	188,507	189,123	189,988	190,702	191,827	192,944	193,670	194,461	195,201	196,174	196,976
NM	428,598	430,375	431,413	432,093	432,873	432,779	432,324	431,873	432,071	431,970	431,710	430,456	429,586
Total	615,442	617,868	619,920	621,216	622,861	623,481	624,151	624,817	625,741	626,431	626,911	626,630	626,562

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	49,880	0	0	0	32,127	37,077	154,659	192,952	193,670	194,481	195,201	256,796	257,062
B	195,753	150,410	151,443	189,123	234,134	218,243	99,538	81,946	81,542	51,289	60,889	0	0
C	52,982	63,113	62,997	0	18,379	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	208,615	213,522	214,440	189,123	284,640	253,320	254,193	254,898	255,321	255,550	256,070	256,796	257,062
NM	406,827	404,346	405,480	432,093	338,221	370,161	369,958	369,919	370,429	370,881	370,841	369,834	369,500
Total	615,442	617,868	619,920	621,216	622,861	623,481	624,151	624,817	625,741	626,431	626,911	626,630	626,562

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	308,615	213,523	214,140	189,123	284,640	253,320	254,195	254,898	255,312	255,750	256,070	256,796	257,062
B	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	208,615	213,523	234,440	189,123	284,640	253,320	254,195	154,898	255,312	255,750	256,070	256,796	257,062
NM	406,827	404,345	405,480	432,093	338,221	370,161	369,956	369,919	370,429	370,681	370,841	369,834	369,500
Total	615,442	617,868	619,920	621,216	622,861	623,481	624,151	624,817	625,741	626,431	626,911	626,630	626,562

NM – Not Monitored

Figure VT-1

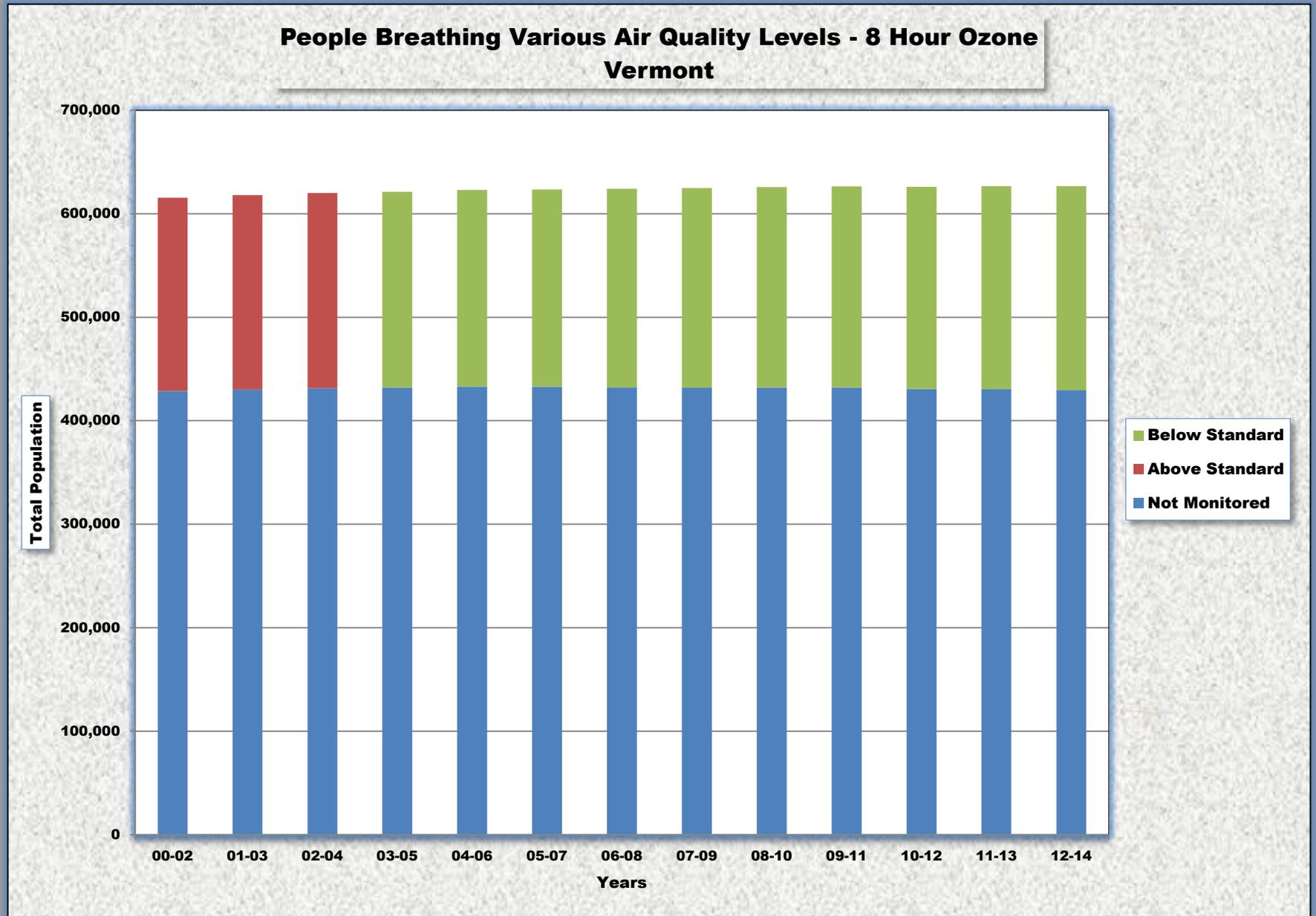


Figure VT-2

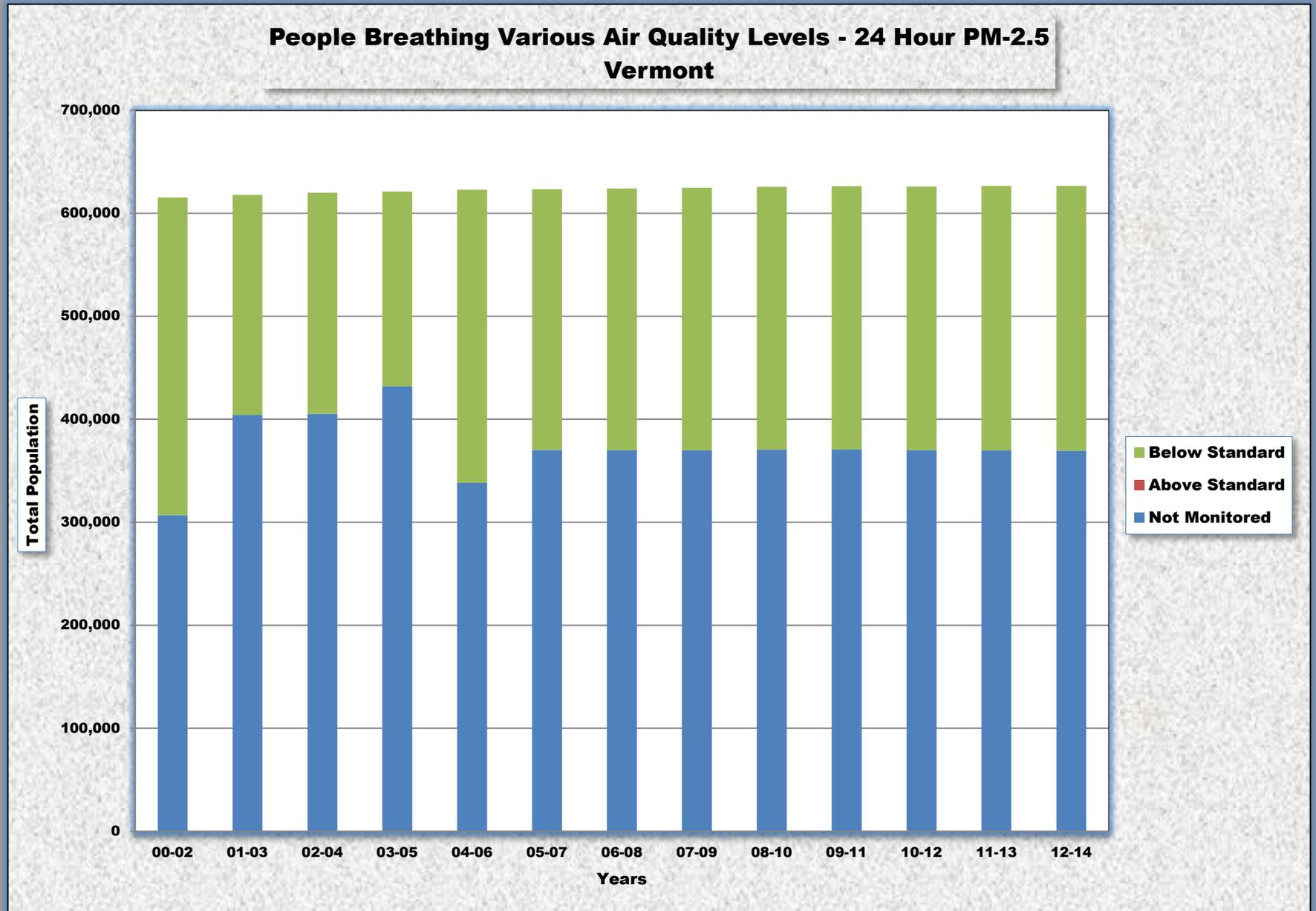
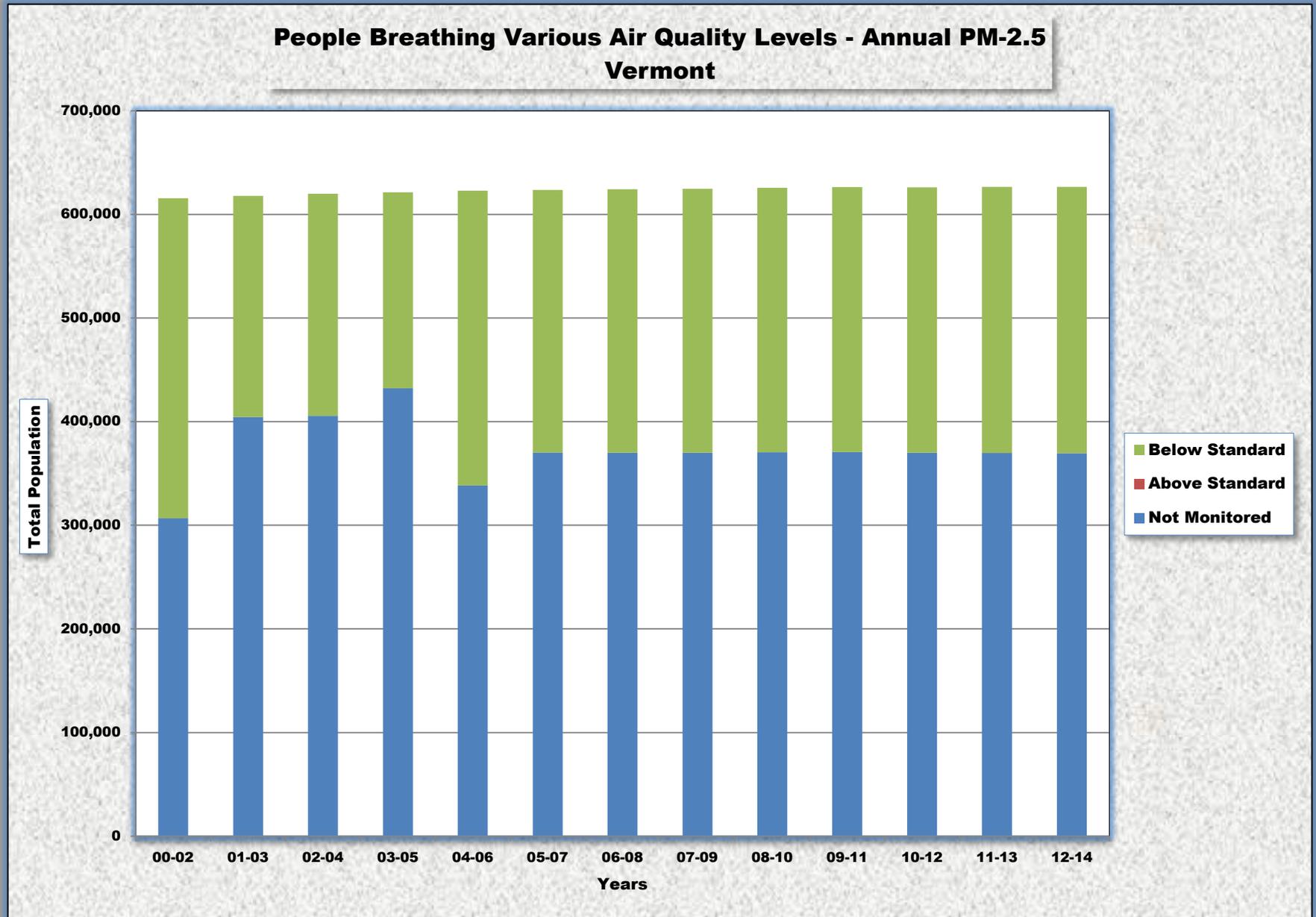


Figure VT-3



VIRGINIA

Ozone

Significant progress has been made in ozone levels in Virginia. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 3.7 million people (44.9%). Figure VA-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Virginia. In the 2000 – 2002 time period, approximately 4.7 million people (64.4%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 2.8 million people (34.0%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure VA-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in Virginia. In the 2000 – 2002 time period, approximately 4.8 million people (66.4%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this was approximately 2.8 million people (34.0%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure VA-3 shows the distribution of people by year.

VIRGINIA

**Table VA-1
2012 – 2014**

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Albemarle	104,489	ND	--	--	17	A	7.6	A	N
Arlington	226,908	0.074	C	N	21	A	9.0	A	N
Caroline	29,778	0.067	B	N	ND	--	ND	--	--
Charles city	7,023	0.067	B	N	18	A	7.9	A	N
Chesterfield	332,499	0.066	B	N	19	A	8.5	A	N
Fairfax	1,137,538	0.072	C	N	20	A	8.4	A	N
Fauquier	68,248	0.059	A	N	ND	--	ND	--	--
Frederick	82,377	0.063	B	N	24	A	9.2	A	N
Giles	16,815	0.062	B	N	ND	--	ND	--	--
Hanover	101,918	0.068	C	N	ND	--	ND	--	--
Henrico	321,924	ND	--	--	18	A	8.2	A	Y
Loudon	363,050	0.067	B	N	20	A	8.7	A	N
Madison	13,157	0.065	B	N	ND	--	ND	--	--
Page	23,848	0.062	B	N	19	A	7.8	A	N
Prince Edward	23,074	0.062	B	N	ND	--	ND	--	--
Prince William	446,094	0.066	B	N	ND	--	ND	--	--
Roanoke	93,785	0.062	B	N	ND	--	ND	--	--
Rockbridge	22,327	0.059	A	N	ND	--	ND	--	--
Rockingham	78,171	0.061	B	N	20	A	8.6	A	N
Stafford	139,992	0.067	B	N	ND	--	ND	--	--
Wythe	29,121	0.063	B	N	ND	--	ND	--	--
Bristol City	6,603	ND	--	--	16	A	8.6	A	N
Hampton City	52,478	0.067	B	N	17	A	7.5	A	N
Lynchburg City	42,081	ND	--	--	17	A	7.5	A	N
Norfolk City	4,031	ND	--	--	18	A	7.8	A	N
Salem City	24,538	ND	--	--	17	A	8.7	A	N
Suffolk City	450,980	0.064	B	Y	ND	--	ND	--	--
Virginia Beach City	21,366	ND	--	--	20	A	8.0	A	N
Subtotal	4,264,213								
Not Monitored	4,062,076								
Total	8,326,269								

DV – Design Value

ND - No Data

MM – Multiple Monitors

VIRGINIA

Table VA-2 People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	90,575
B	0	0	0	0	0	0	22,363	216,317	193,059	398,416	118,187	541,990	2,182,242
C	0	0	21,432	272,939	341,456	254,706	454,244	1,569,709	2,133,661	1,834,362	1,595,151	1,944,788	1,466,364
D	401,094	450,449	625,902	1,965,710	1,726,673	1,297,180	1,301,669	1,670,391	1,289,353	1,460,947	693,945	1,355,830	0
F	2,612,774	2,709,392	2,577,608	799,454	1,003,361	1,561,050	1,624,415	0	0	0	1,339,647	0	0
Subtotal	3,013,868	3,159,841	3,224,942	3,138,103	3,071,490	3,112,936	3,402,691	3,456,417	3,616,073	3,693,775	3,746,930	3,842,608	3,739,181
NM	4,273,005	4,207,136	4,250,634	4,539,003	4,602,235	4,638,064	4,430,805	4,469,520	4,384,951	4,402,829	4,439,937	4,417,797	4,587,088
Total	7,286,873	7,366,977	7,475,576	7,677,106	7,673,725	7,751,000	7,833,496	7,925,937	8,001,024	8,096,604	8,186,867	8,260,405	8,326,269

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	363,074	2,808,125	3,380,957	3,122,013	3,257,948	3,617,571	2,828,924
B	2,728,379	877,630	986,255	1,144,816	1,531,744	1,383,673	2,812,405	355,047	0	0	0	0	0
C	1,964,576	2,278,443	1,813,649	1,434,790	1,568,598	1,748,458	0	0	0	0	0	0	0
D	190,137	188,235	187,901	442,669	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	4,883,092	3,344,308	2,987,805	3,122,275	3,100,342	3,132,131	3,175,479	3,163,172	3,380,957	3,122,013	3,257,948	3,617,571	2,828,924
NM	2,403,781	4,022,669	4,487,771	4,554,831	4,573,383	4,618,869	4,658,017	4,762,765	4,620,067	4,974,591	4,928,919	4,642,834	5,497,345
Total	7,286,873	7,366,977	7,475,576	7,677,106	7,673,725	7,751,000	7,833,496	7,925,937	8,001,024	8,096,604	8,186,867	8,260,405	8,326,269

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	140,413	0	0	0	140,222	1,069,046	2,960,535	3,380,957	3,122,013	3,257,948	3,617,571	2,828,924
B	2,616,340	1,045,695	1,780,751	1,134,383	1,853,720	2,021,083	2,106,433	202,637	0	0	0	0	0
C	2,225,111	2,158,201	1,207,054	1,548,062	1,246,622	970,826	0	0	0	0	0	0	0
D	41,641	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	4,883,092	3,344,309	2,987,805	2,782,445	3,100,342	3,132,131	3,175,479	3,163,172	3,380,957	3,122,013	3,257,948	3,617,571	2,828,924
NM	2,403,781	4,022,668	4,487,771	4,894,661	4,573,383	4,618,869	4,658,017	4,762,765	4,620,067	4,974,591	4,928,919	4,642,834	5,497,345
Total	7,286,873	7,366,977	7,475,576	7,677,106	7,673,725	7,751,000	7,833,496	7,925,937	8,001,024	8,096,604	8,186,867	8,260,405	8,326,269

NM – Not Monitored

Figure VA-1

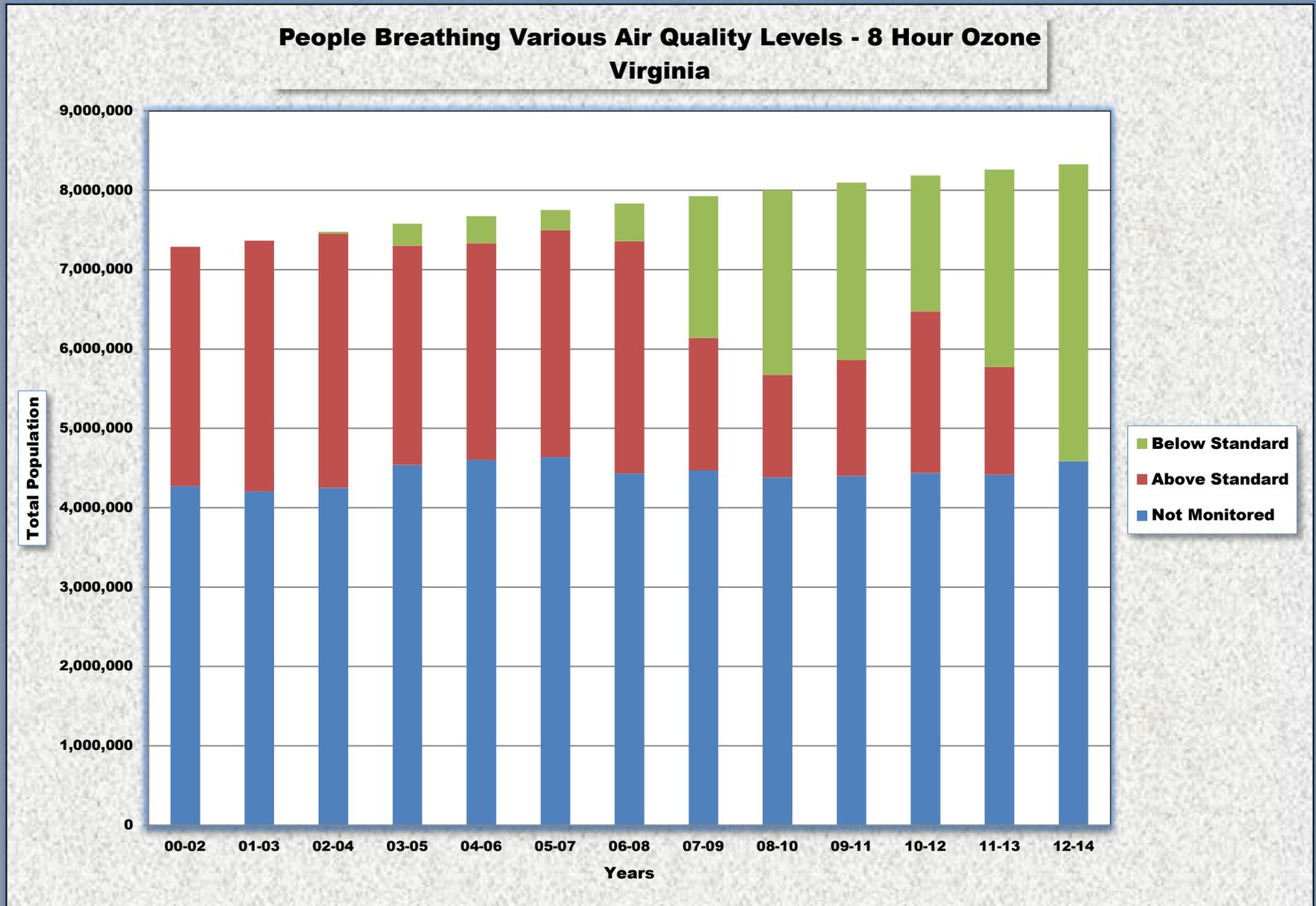


Figure VA-2

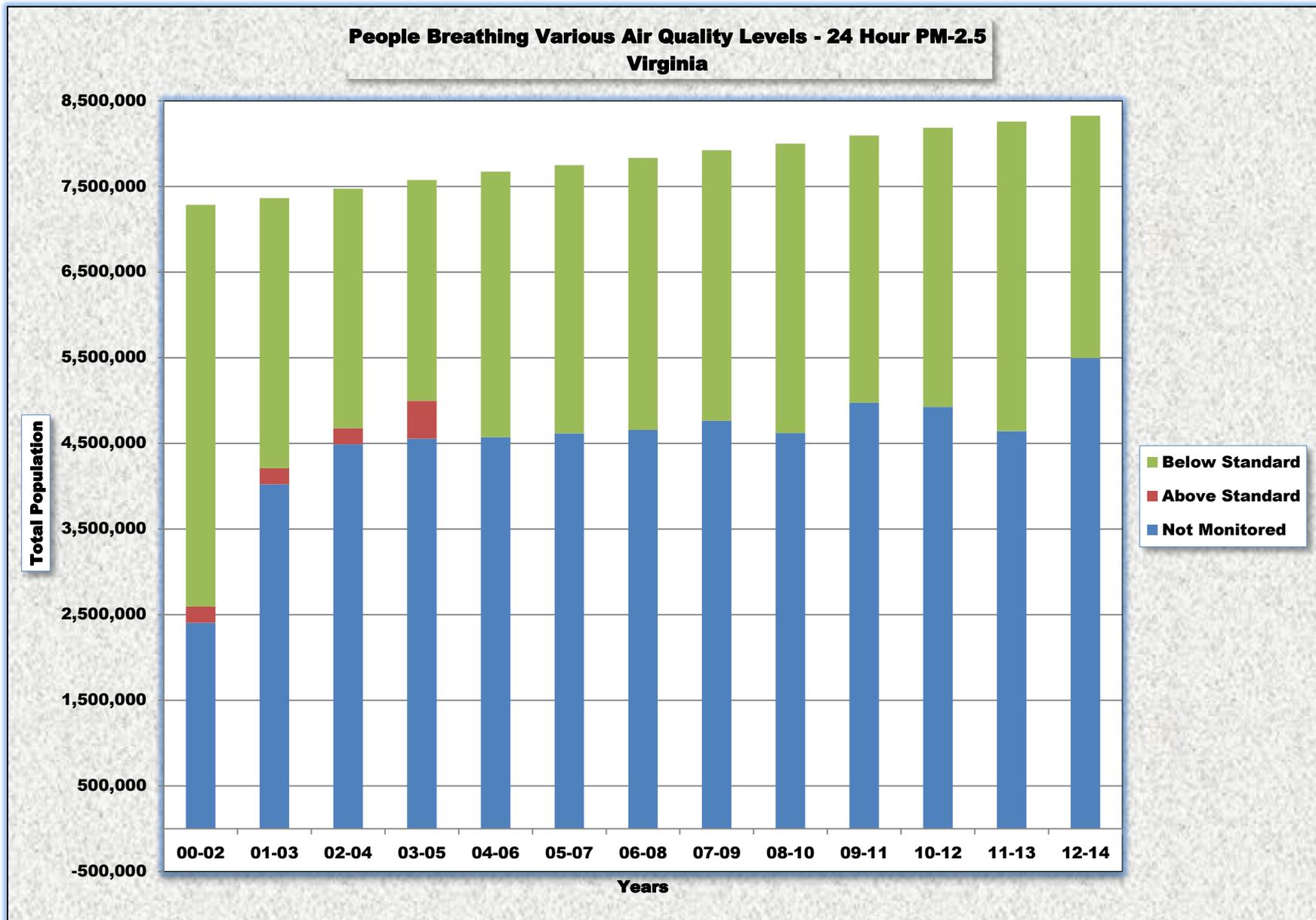
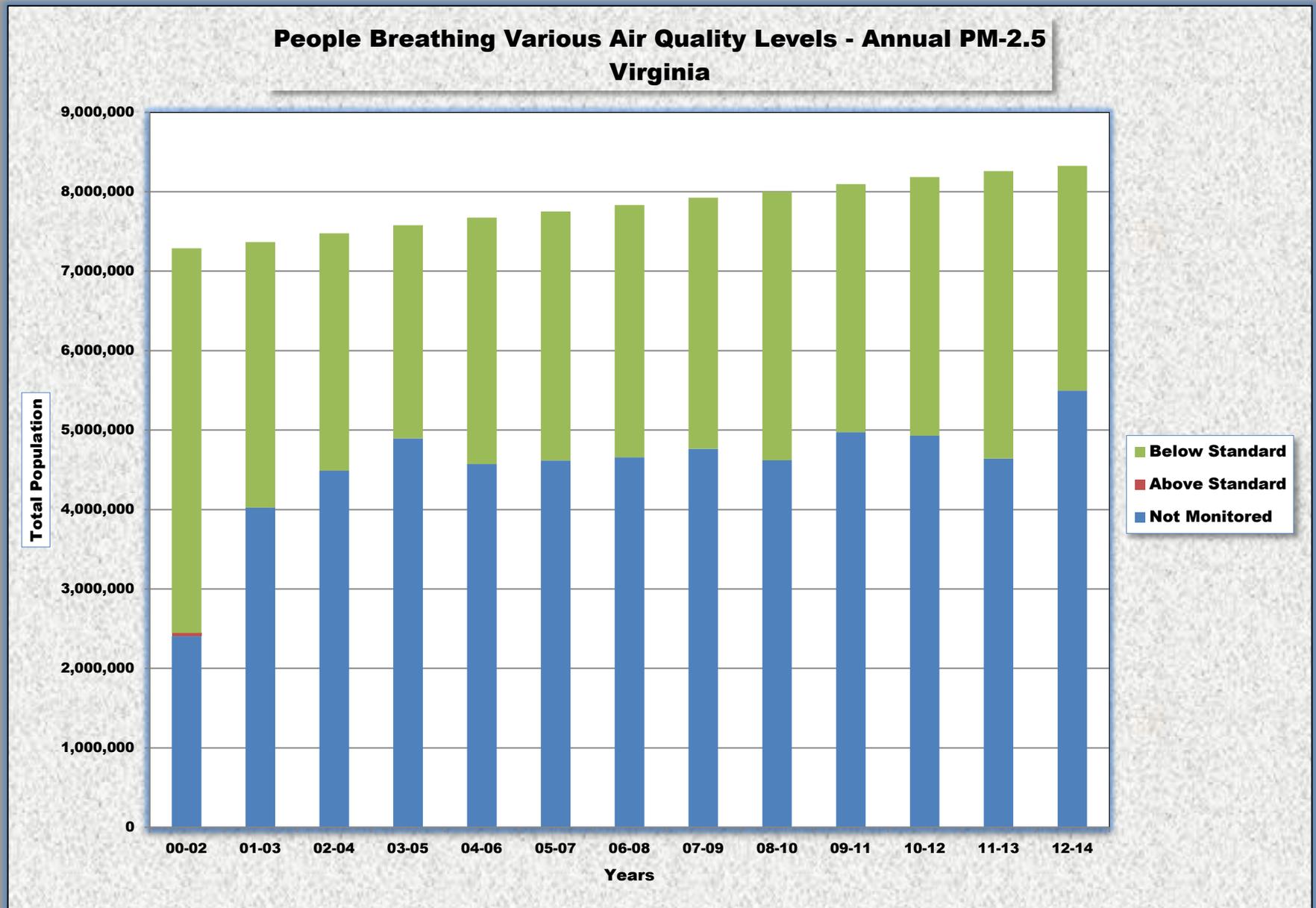


Figure VA-3



WASHINGTON

Ozone

Ozone levels in Washington have historically been better than the standard except for the 2006 – 2008 period. In the 2000 – 2002 time period, approximately 3.9 million people (63.8%) lived in counties that met the ozone standard. In 2012 – 2014 this value was 4.4 million people (62.9%). The remainder of the population lived in counties where ozone was not measured. Figure WA-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Washington. In the 2000 – 2002 time period, approximately 3.3 million people (53.8%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 4.4 million people (62.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure WA-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Washington have historically been better than the standard. In the 2000 – 2002 time period, approximately 4.7 million people (77.5%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this was approximately 4.4 million people (62.4%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure WA-3 shows the distribution of people by year.

Table WA-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Clark	451,008	0.056	A	N	ND	--	ND	--	--
King	2,079,967	0.055	A	Y	20	A	6.4	A	Y
Pierce	831,928	0.060	B	N	30	B	7.6	A	Y
Skagit	120,365	0.045	A	Y	ND	--	ND	--	--
Snohomish	759,583	ND	--	--	24	A	6.6	A	Y
Spokane	484,318	0.061	A	Y	22	A	7.8	A	N
Thurston	265,851	0.055	A	N	ND	--	ND	--	--
Whatcom	208,351	0.045	A	N	ND	--	ND	--	--
Yakima	247,687	ND	--	--	32	C	9.4	A	N
Subtotal	5,449,058								
Not Monitored	1,612,472								
Total	7,061,530								

DV – Design Value

ND - No Data

MM – Multiple Monitors

WASHINGTON

**Table WA-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,774,012	1,233,241	855,840	744,950	703,245	576,063	1,048,032	2,621,499	2,583,489	3,724,467	3,813,089	2,940,658	2,605,550
B	1,218,354	1,072,850	1,535,319	1,683,690	2,073,163	2,799,219	2,059,387	819,478	880,425	492,431	501,860	990,510	1,836,238
C	869,538	1,586,388	1,598,707	1,491,928	1,213,118	461,997	392,700	478,003	482,812	0	0	0	0
D	0	0	0	0	0	0	468,755	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	3,861,903	3,892,479	3,989,866	3,920,568	3,989,526	3,837,279	3,968,874	3,918,980	3,946,726	4,216,898	4,314,949	3,931,168	4,441,788
NM	2,190,446	2,211,637	2,188,779	2,336,737	2,381,227	2,624,308	2,593,357	2,748,946	2,777,814	2,613,140	2,672,063	3,040,238	2,619,742
Total	6,052,349	6,104,116	6,178,645	6,257,305	6,370,753	6,461,587	6,562,231	6,667,926	6,724,540	6,830,038	6,987,012	6,971,406	7,061,530

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,346,939	1,389,511	1,043,338	1,196,845	911,484	0	0	1,912,012	0	2,320,922	2,007,440	2,788,768	2,283,884
B	380,498	568,043	1,322,917	1,196,588	1,359,001	2,304,136	462,263	0	1,138,698	433,418	1,058,658	658,509	1,871,912
C	1,529,754	1,479,440	0	1,049,126	670,706	683,997	694,622	706,302	0	1,416,245	0	409,872	247,687
D	509,427	225,161	870,813	0	0	0	0	239,604	1,038,456	0	0	0	0
F	924,865	551,775	1,125,068	748,148	763,408	772,482	785,400	796,486	0	0	0	0	0
Subtotal	4,691,483	4,213,936	4,362,105	4,190,707	3,704,589	3,760,615	1,942,285	3,654,401	2,177,154	4,170,585	3,066,098	3,857,149	4,403,483
NM	1,360,866	1,890,180	1,816,540	2,066,598	2,666,164	2,700,972	4,619,946	3,013,525	4,547,386	2,659,453	3,920,914	3,114,257	2,658,047
Total	6,052,349	6,104,116	6,178,645	6,257,305	6,370,753	6,461,587	6,562,231	6,667,926	6,724,540	6,830,038	6,987,012	6,971,406	7,061,530

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	4,691,483	4,213,936	4,362,135	4,190,707	3,704,598	3,760,615	1,942,285	3,564,401	2,177,154	4,170,585	3,066,098	3,175,666	4,403,483
B	0	0	0	0	0	0	0	0	0	0	0	681,483	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	4,691,483	4,213,936	4,362,135	4,190,707	3,704,598	3,760,615	1,942,685	3,654,401	2,177,154	4,170,585	3,066,998	3,857,149	4,403,483
NM	1,360,866	1,890,180	1,816,510	2,066,598	2,666,155	2,700,972	4,619,946	3,013,525	4,547,386	2,659,453	3,920,014	3,114,257	2,658,047
Total	6,052,349	6,104,116	6,178,645	6,257,305	6,370,753	6,461,587	6,562,631	6,667,926	6,724,540	6,830,038	6,987,012	6,971,406	7,061,530

NM – Not Monitored

Figure WA-1

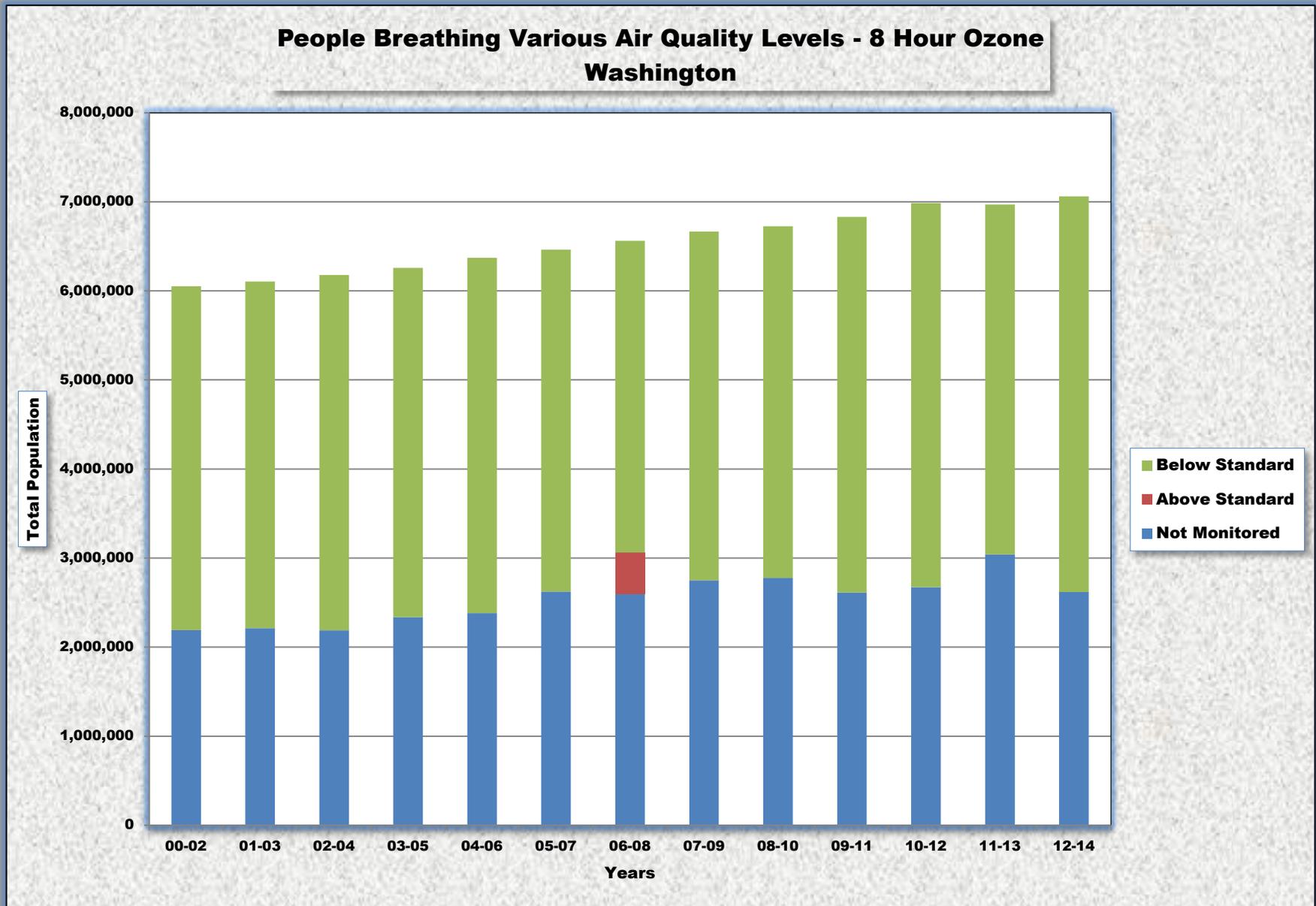


Figure WA-2

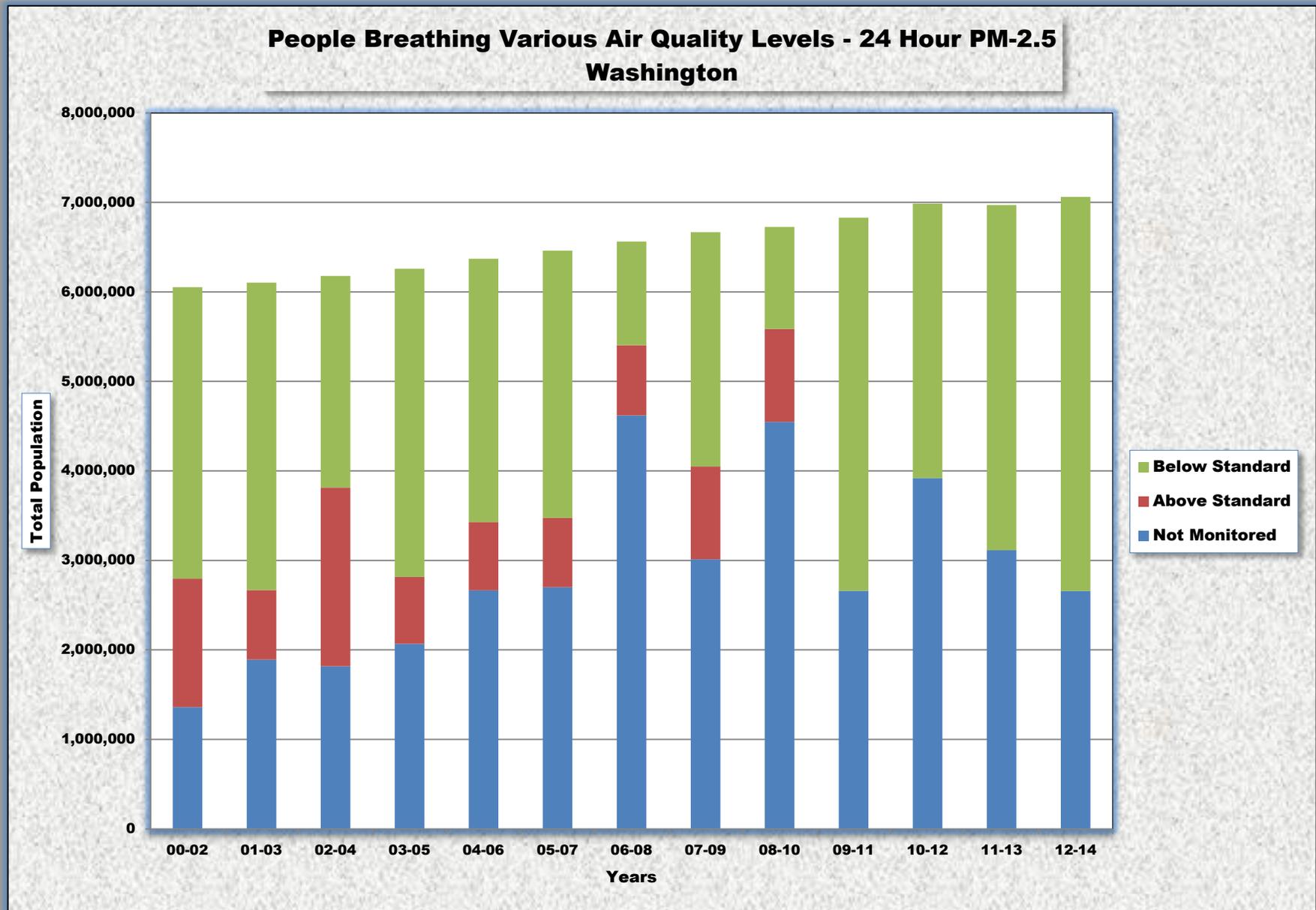
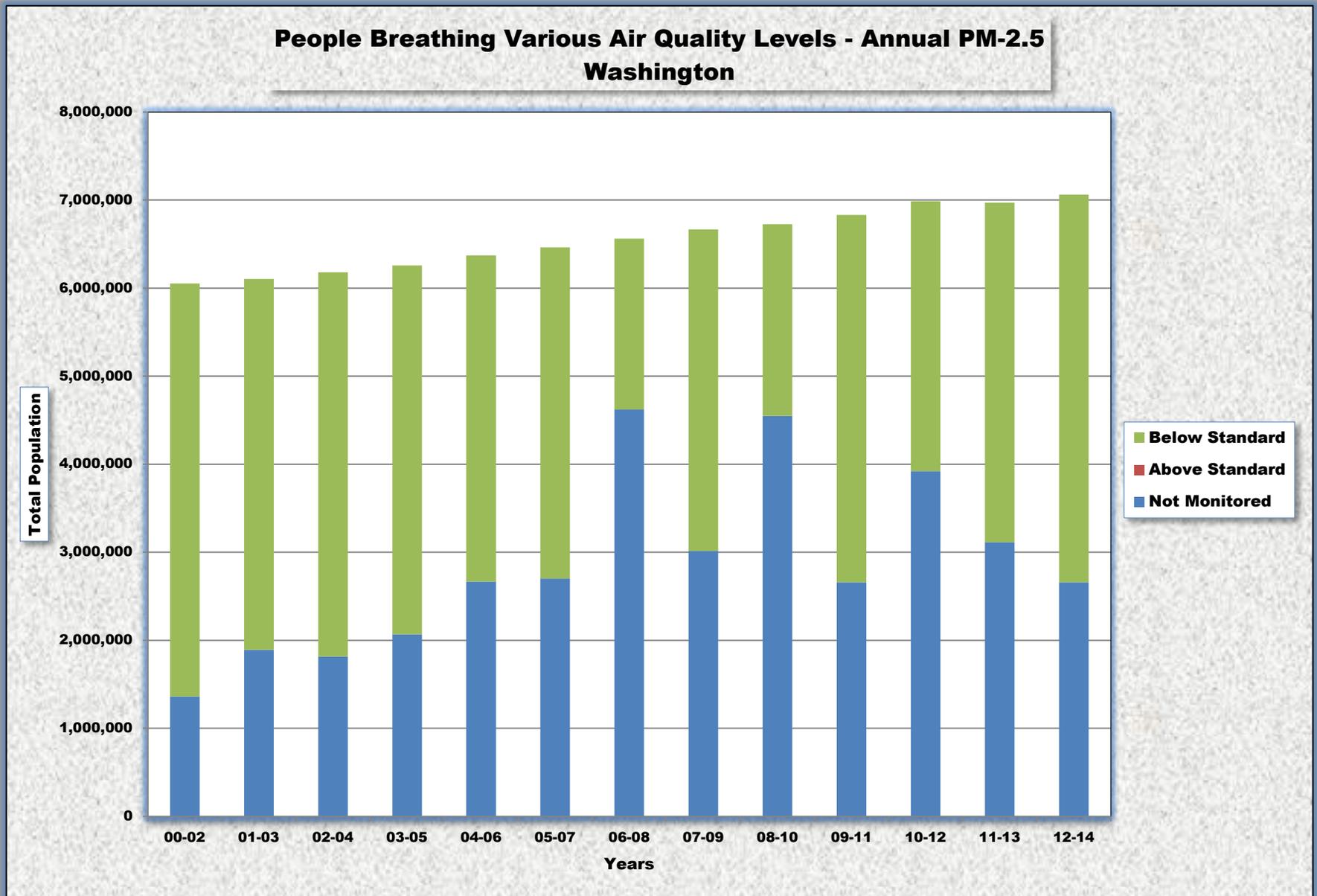


Figure WA-3



WEST VIRGINIA

Ozone

Significant progress has been made in ozone levels in West Virginia. In the 2000 – 2002 time period, no people lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 0.7 million people (38.5%). The remainder of the population lived in counties where ozone was not measured. Figure WV-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in West Virginia. In the 2000 – 2002 time period, approximately 0.2 million people (8.6%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 0.8 million people (45.5%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure WV-2 shows the distribution of people by year.

Annual PM-2.5

Significant progress has been made in annual PM-2.5 levels in West Virginia. In the 2000 – 2002 time period, approximately 0.3 million people (17.0%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 0.8 million people (45.5%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure WV-3 shows the distribution of people by year.

Table WV-1
2012 – 2014

		OZONE			PARTICLE POLLUTION (PM-2.5)				
County	Population	Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Berkeley	110,497	0.064	B	N	27	A	10.4	B	N
Brooke	23,530	ND	--	--	24	A	10.8	C	Y
Cabell	97,109	0.065	B	N	21	A	9.7	B	N
Gilmer	8,618	0.058	A	N	ND	--	ND	--	--
Greenbrier	35,450	0.062	B	N	ND	--	ND	--	--
Hancock	30,112	0.070	C	N	23	A	10.0	B	N
Harrison	68,761	ND	--	--	19	A	9.1	A	N
Kanawha	190,223	0.069	C	N	19	A	9.6	B	Y
Marion	56,803	ND	--	--	19	A	9.7	B	N
Marshall	32,416	ND	--	--	23	A	11.1	C	N
Monongalia	103,463	0.066	B	N	18	A	8.8	A	N
Ohio	43,328	0.067	B	N	22	A	10.3	B	N
Tucker	6,927	0.062	B	N	ND	--	ND	--	--
Wood	86,237	0.069	C	N	20	A	9.8	B	N
Subtotal	893,474								
Not Monitored	956,952								
Total	1,850,326								

DV – Design Value

ND - No Data

MM – Multiple Monitors

WEST VIRGINIA

Table WV-2 People Breathing Ozone

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	0	0	0	8,618
B	0	0	0	0	0	0	0	0	132,299	219,573	35,820	159,990	396,774
C	0	0	37,938	154,954	445,390	134,486	229,286	684,380	555,496	471,410	657,654	551,269	306,572
D	118,844	120,814	598,278	512,745	223,420	445,208	449,677	0	0	0	0	0	0
F	458,208	540,874	31,600	0	0	95,059	0	0	0	0	0	0	0
Subtotal	577,052	661,688	667,816	667,699	668,810	674,753	678,963	684,380	687,795	679,983	682,484	711,259	711,964
NM	1,229,362	1,150,607	1,148,622	1,152,793	1,159,102	1,159,299	1,161,347	1,163,396	1,165,199	1,175,381	1,172,929	1,143,045	1,138,362
Total	1,806,414	1,812,295	1,816,438	1,820,492	1,827,912	1,834,052	1,840,310	1,847,776	1,852,994	1,855,364	1,855,413	1,854,304	1,850,326

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	147,478	537,859	678,419	710,118	920,844	842,479
B	14,123	14,106	13,997	0	123,103	78,323	292,918	610,348	375,509	168,621	139,772	0	0
C	140,753	140,375	438,020	560,212	654,344	301,814	373,005	139,400	0	0	0	0	0
D	233,150	333,034	371,657	277,477	64,318	476,784	225,876	0	0	0	0	0	0
F	573,977	477,141	143,268	56,213	55,665	43,005	12,084	0	0	0	0	0	0
Subtotal	962,003	964,656	966,942	893,902	897,430	899,926	903,883	897,226	903,368	836,040	838,890	920,844	842,479
NM	844,411	847,639	849,496	926,590	930,482	934,126	936,427	950,550	949,626	1,019,324	1,016,523	933,460	1,007,847
Total	1,806,414	1,812,295	1,816,438	1,820,492	1,827,912	1,834,052	1,840,310	1,847,776	1,852,994	1,855,364	1,855,413	1,854,304	1,850,326

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	14,123	14,106	13997	0	0	0	0	78,782	340,679	453,880	793,363	171,246	267,335
B	62,013	140,375	140,122	78,341	142,496	78,323	233,603	367,655	560,654	393,161	56,527	511,196	530,963
C	230,738	153,690	354,064	257,594	357,138	203,418	466,780	462,865	12,035	0	0	238,403	44,181
D	230,599	514,033	427,159	514,106	397,796	426,948	203,500	0	0	0	0	0	0
F	424,527	238,006	31,600	43,862	0	95,059	0	0	0	0	0	0	0
Subtotal	959,003	1,060,210	966,942	893,903	897,430	803,748	903,883	909,302	903,368	836,041	838,890	920,845	842,479
NM	844,411	752,085	849,496	926,589	930,482	4,030,304	936,427	938,474	949,626	1,019,323	1,016,523	933,459	1,007,847
Total	1,803,414	1,812,295	1,816,438	1,820,492	1,827,912	1,834,052	1,840,310	1,847,776	1,852,994	1,855,364	1,855,413	1,854,304	1,850,326

NM – Not Monitored

Figure WV-1

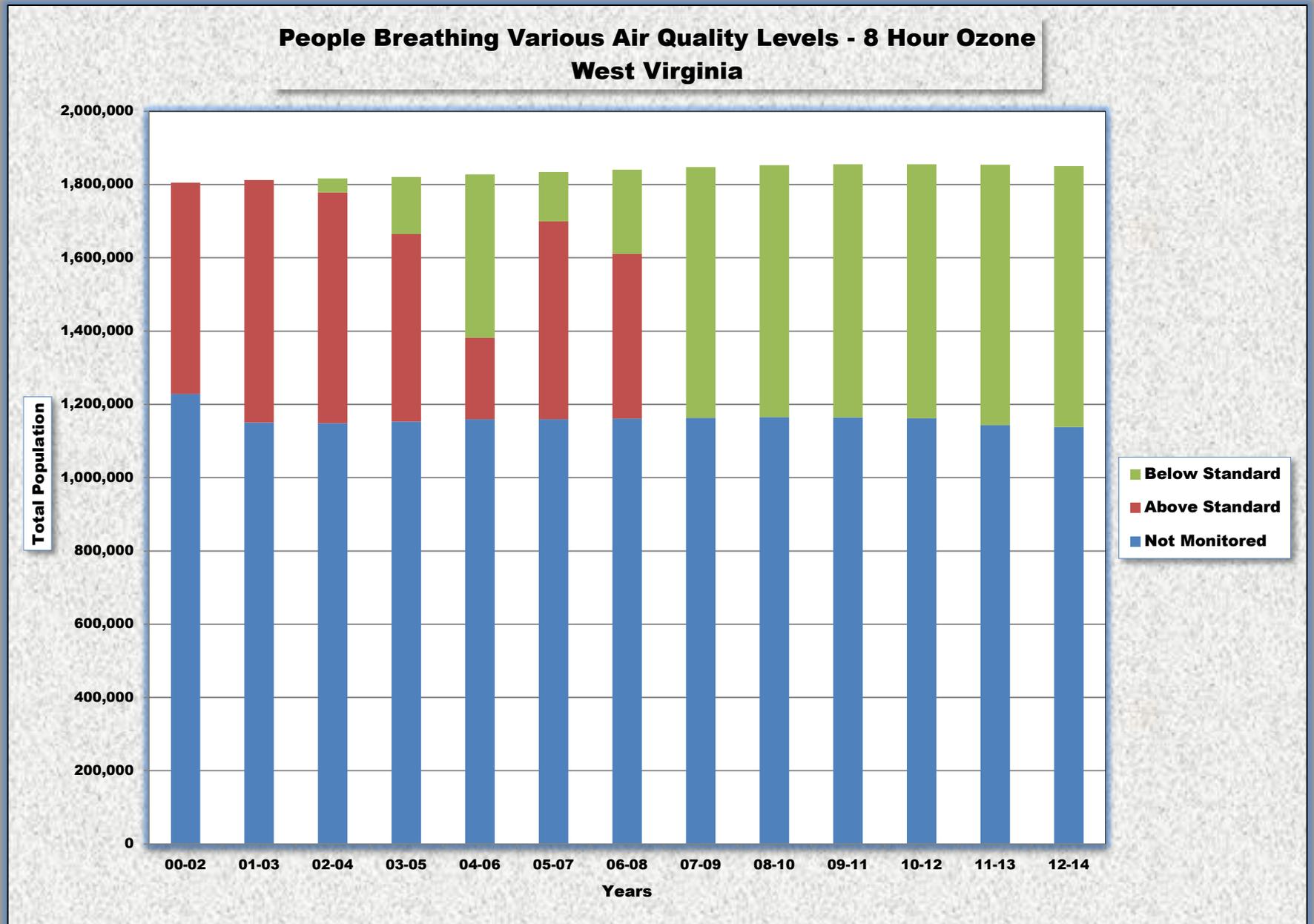


Figure WV-2

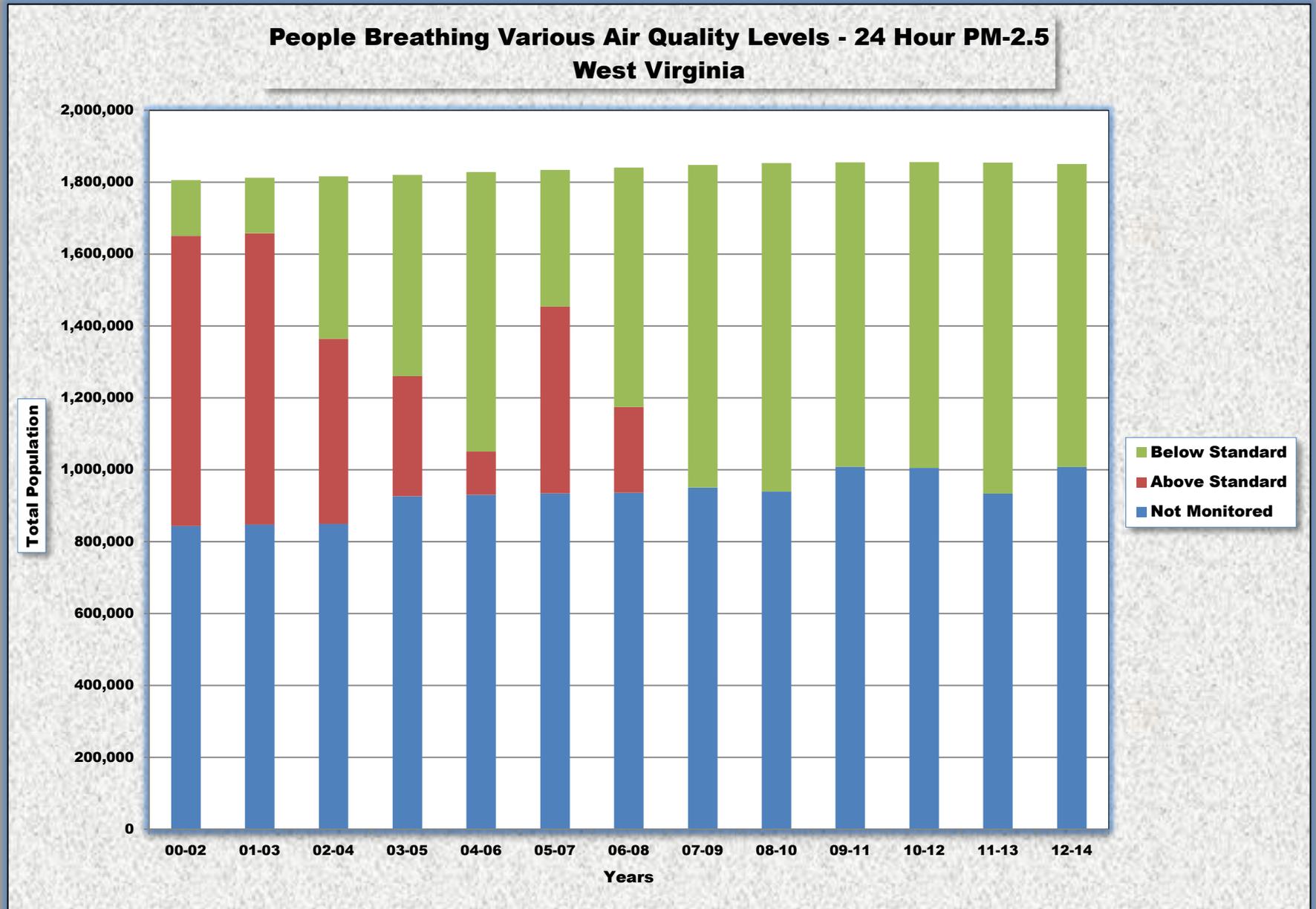
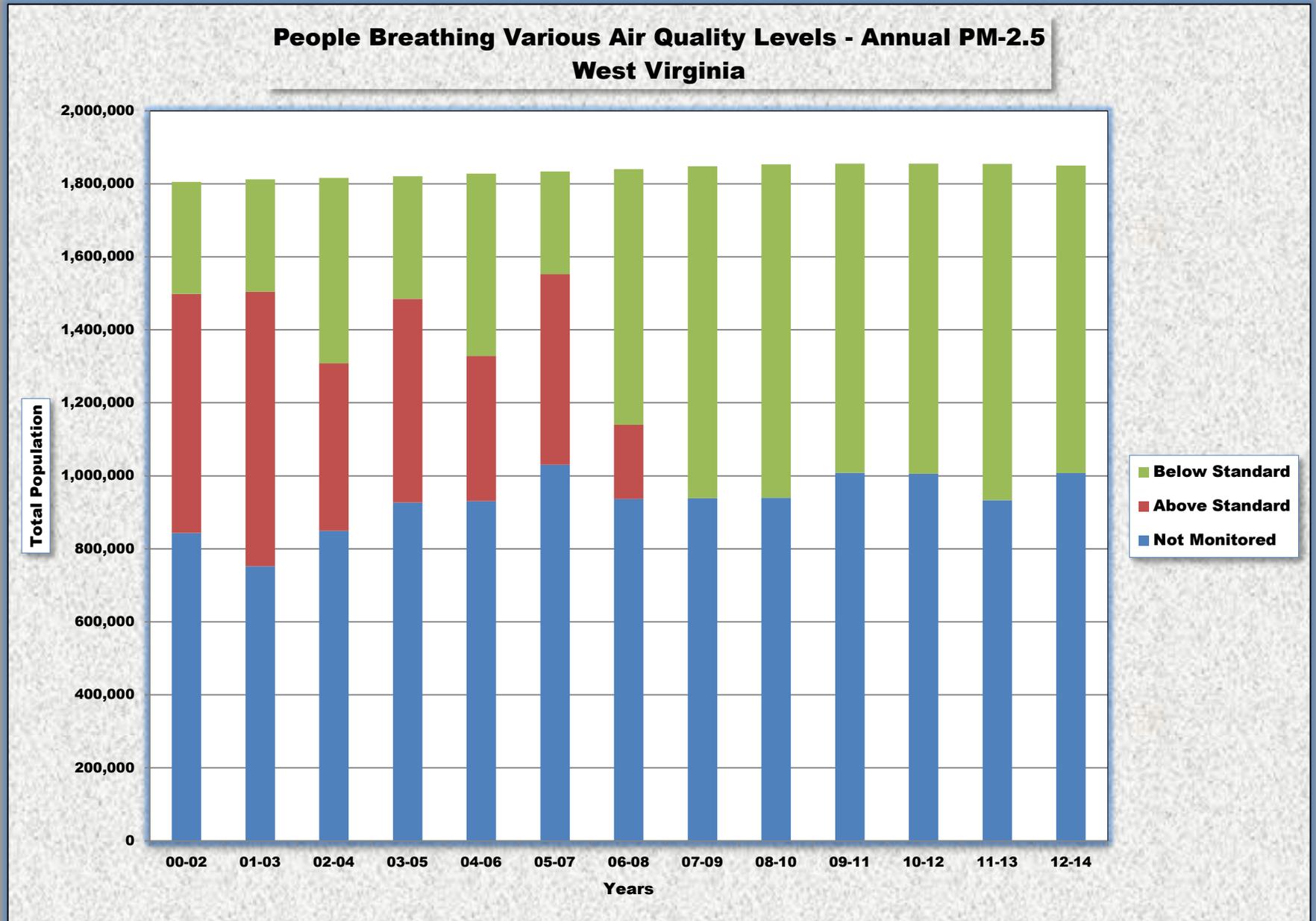


Figure WV-3



WISCONSIN

Ozone

Progress has been made in ozone levels in Wisconsin. In the 2000 – 2002 time period, approximately 1.0 million people (18.6%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 3.1 million people (53.5%). Figure WI-1 shows the distribution of people by year.

24-Hour PM-2.5

Significant progress has been made in 24-hour PM-2.5 levels in Wisconsin. In the 2000 – 2002 time period, approximately 2.9 million people (54.1%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 3.0 million people (52.5%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure WI-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Wisconsin have historically been better than the standard. In the 2000 – 2002 time period, approximately 3.1 million people (56.5%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had decreased to approximately 3.0 million people (52.5%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure WI-3 shows the distribution of people by year.

WISCONSIN

**Table WI-1
2012 – 2014**

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Ashland	16,103	0.058	A	N	17	A	5.1	A	N
Brown	256,670	0.070	C	N	24	A	8.5	A	N
Columbia	56,615	0.069	C	N	ND	--	ND	--	--
Dane	516,284	0.069	C	N	23	A	8.5	A	Y
Dodge	88,574	0.072	C	N	24	A	8.4	A	N
Door	27,766	0.073	C	N	ND	--	ND	--	--
Eau Claire	101,564	0.063	B	N	21	A	7.9	A	N
Fond du Lac	101,759	0.070	C	N	ND	--	ND	--	--
Forest	9,127	0.072	C	N	ND	--	ND	--	--
Grant	51,289	ND	--	--	21	A	8.7	A	N
Jefferson	84,395	0.072	C	N	ND	--	ND	--	--
Kenosha	168,068	0.081	D	N	23	A	8.9	A	N
Kewaunee	20,444	0.073	C	N	ND	--	ND	--	--
La Crosse	118,011	0.064	B	N	21	A	8.2	A	N
Manitowoc	80,160	0.075	C	N	ND	--	ND	--	--
Marathon	135,780	0.065	B	N	ND	--	ND	--	--
Milwaukee	956,406	0.073	C	Y	26	A	9.7	B	Y
Outagamie	182,006	0.071	C	N	24	A	8.4	A	N
Ozaukee	87,470	0.075	C	Y	19	A	7.9	A	N
Sauk	63,379	0.066	B	N	20	A	7.5	A	N
Sheboygan	115,290	0.081	D	N	ND	--	ND	--	--
Taylor	20,540	0.063	B	N	19	A	6.9	A	N
Vilas	21,398	0.061	B	N	ND	--	ND	--	--
Walworth	103,527	0.072	C	N	ND	--	ND	--	--
Waukesha	395,118	0.066	B	N	23	A	10.2	B	N
Subtotal	3,777,743								
Not Monitored	1,979,821								
Total	5,757,564								

DV – Design Value

ND - No Data

MM – Multiple Monitors

WISCONSIN

**Table WI-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	36,500	0	0	0	0	0	16,103
B	0	0	63,994	4,825	106,642	0	1,216,721	1,461,479	2,899,678	3,150,305	838,154	852,550	864,917
C	1,012,901	695,530	1,943,456	2,190,447	2,536,783	2,345,566	2,479,917	2,257,065	1,051,898	330,365	2,285,314	2,438,726	2,199,359
D	1,246,593	1,428,490	782,021	618,420	1,116,851	649,127	308,311	308,983	115,507	363,418	410,732	486,979	645,895
F	1,253,501	1,946,113	1,153,755	1,112,036	189,774	762,207	0	0	0	0	282,945	114,922	0
Subtotal	3,512,995	4,070,133	3,941,226	3,925,728	3,950,050	3,755,900	4,038,449	4,027,527	4,067,083	3,844,088	3,817,145	3,893,177	3,726,274
NM	1,932,167	1,409,070	1,570,800	1,620,438	1,627,605	1,853,876	1,602,547	1,641,737	1,619,903	1,867,679	1,909,253	1,849,536	2,031,290
Total	5,445,162	5,479,203	5,514,026	5,546,166	5,577,655	5,610,776	5,640,996	5,669,264	5,686,986	5,711,767	5,726,398	5,742,713	5,757,564

People Breathing Short-term Particle Pollution 24-Hour PM-2.5

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	93,608	259,953	103,915	58,853	58,866	150,016	170,188	25,524	25,481	321,322	1,196,057	2,435,175	3,021,482
B	810,582	216,615	563,630	555,689	226,811	149,396	596,727	444,524	1,131,413	1,868,695	1,412,884	0	0
C	2,040,262	1,706,615	1,341,677	1,089,770	1,123,164	938,855	1,423,376	1,815,560	1,813,536	568,923	0	0	0
D	134,265	375,805	562,148	871,195	993,095	900,626	885,041	754,134	0	0	0	0	0
F	0	0	0	188,506	372,105	745,162	0	0	0	0	0	0	0
Subtotal	3,078,717	2,558,676	2,571,370	2,762,015	2,774,241	2,883,855	3,075,332	3,039,742	2,970,410	2,758,940	2,608,941	2,435,175	3,021,482
NM	2,366,445	2,920,527	2,942,656	2,784,151	2,803,414	2,726,921	2,565,664	2,629,522	2,716,576	2,952,827	3,117,457	3,307,538	2,736,082
Total	5,445,162	5,479,203	5,514,026	5,546,166	5,577,655	5,610,776	5,640,996	5,669,264	5,686,986	5,711,767	5,726,398	5,742,713	5,757,564

People Breathing Year Round Particle Pollution Annual PM-2.5

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	1,461,454	797,861	1,445,596	994,541	998,161	797,155	887,867	556,298	2,580,519	2,758,940	2,808,740	1,027,578	1,909,059
B	1,214,469	1,760,815	1,125,774	1,394,586	1,209,228	771,008	1,004,972	1,905,953	389,891	0	0	1,013,905	1,112,423
C	402,795	0	0	378,885	566,852	1,315,692	1,182,493	577,491	0	0	0	393,643	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	3,078,718	2,558,676	2,571,370	2,762,014	2,774,241	2,883,855	3,074,332	3,039,742	2,970,410	2,758,940	2,608,940	2,435,175	3,021,482
NM	2,366,444	2,920,527	2,942,656	2,784,152	2,803,414	2,726,921	2,566,664	2,629,522	2,716,576	2,952,827	3,117,458	3,307,538	2,736,082
Total	5,445,162	5,479,203	5,514,026	5,546,166	5,577,655	5,610,776	5,640,996	5,669,264	5,686,986	5,711,767	5,726,398	5,742,713	5,757,564

NM – Not Monitored

Figure WI-1

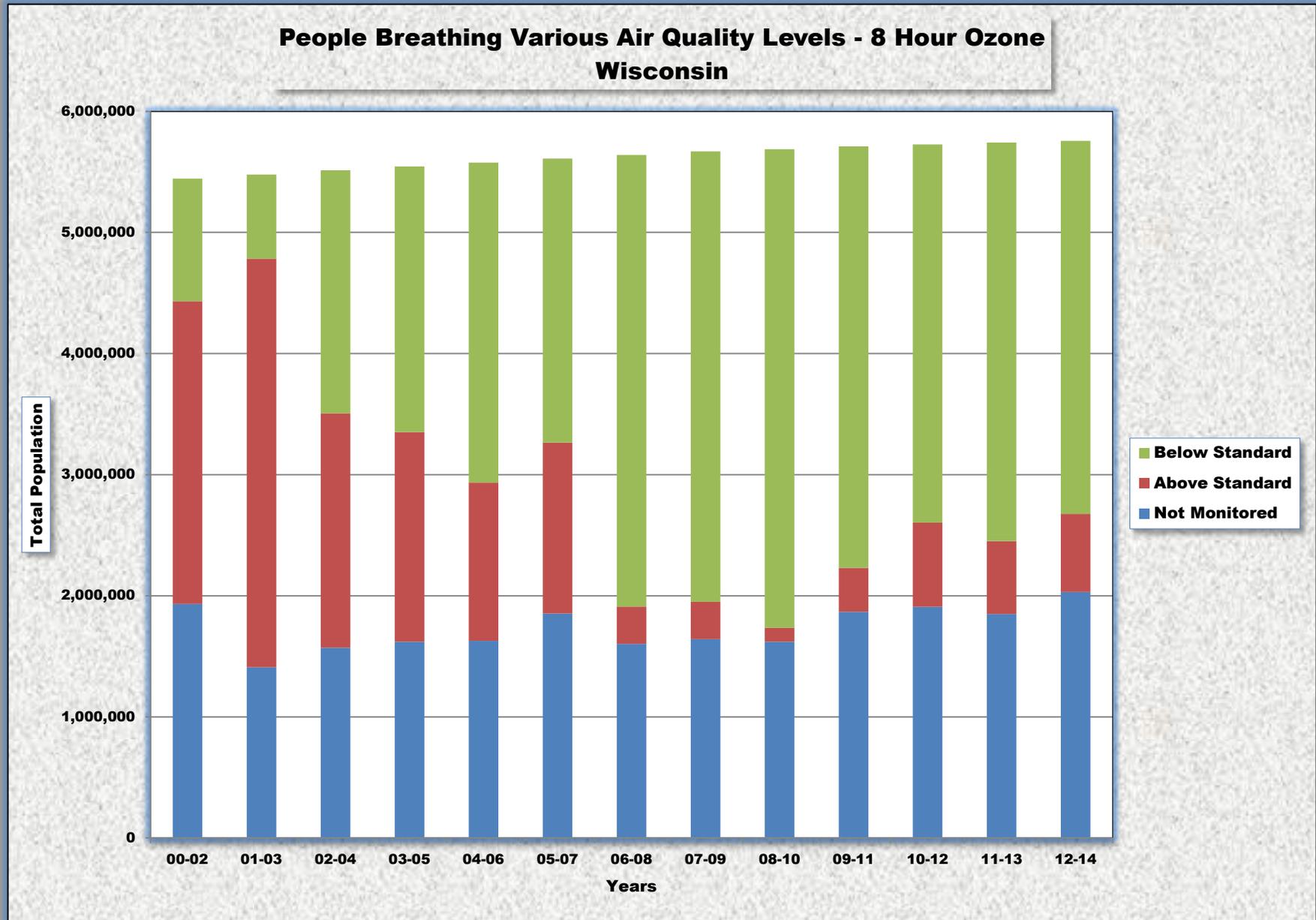


Figure WI-2

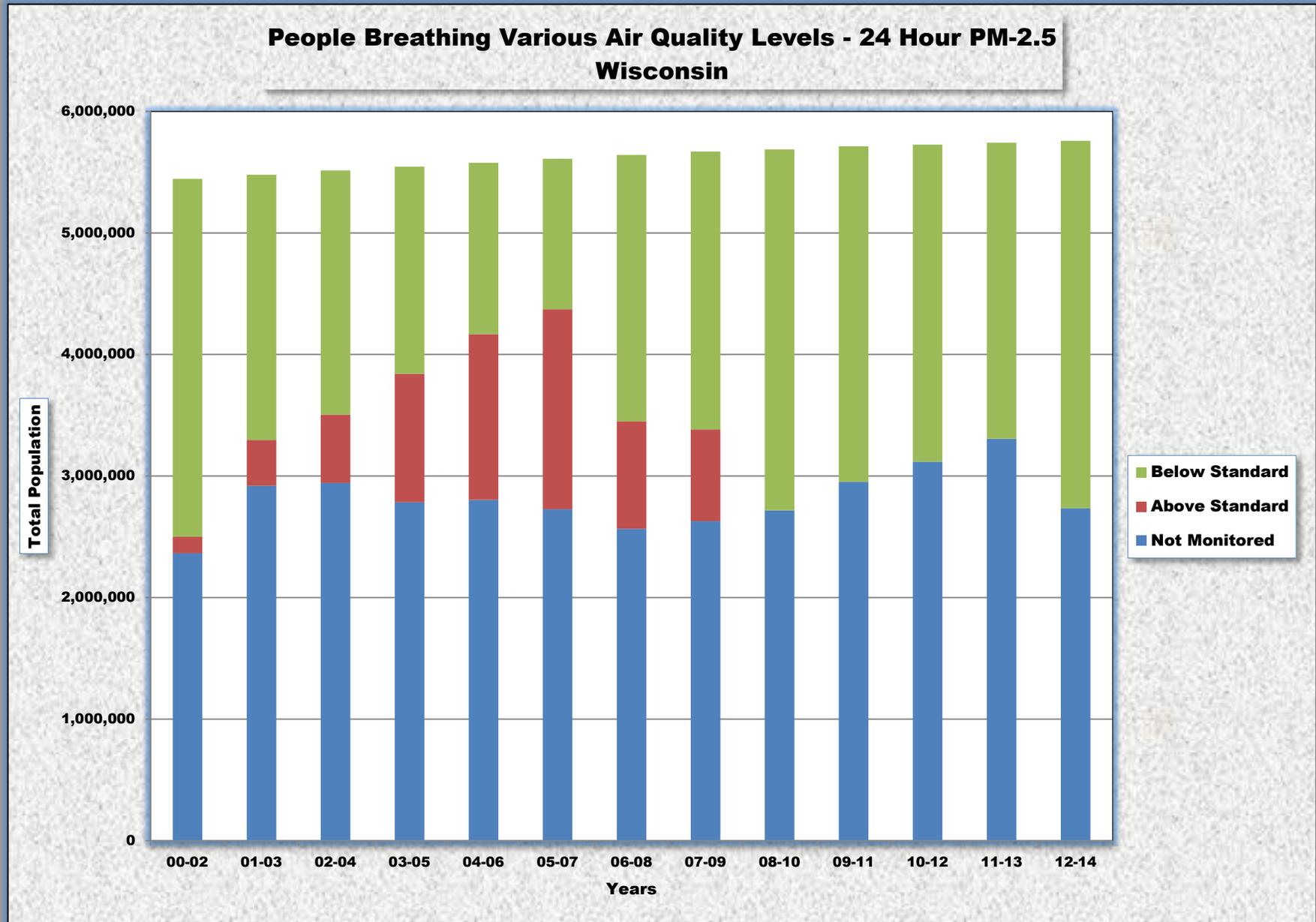
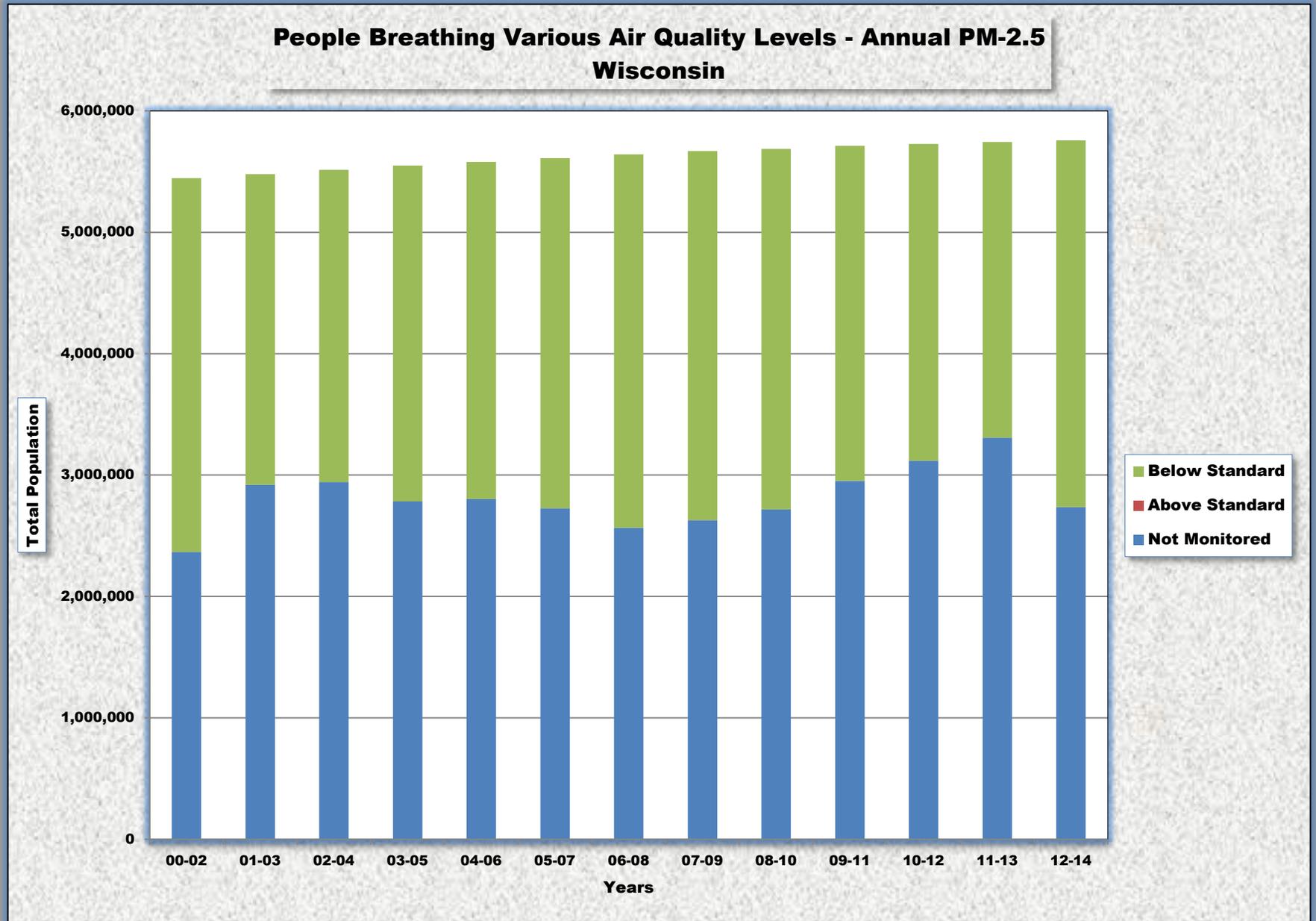


Figure WI-3



WYOMING

Ozone

Significant progress has been made in ozone levels in Wyoming. In the 2000 – 2002 time period, approximately 19 thousand people (3.8%) lived in counties that met the ozone standard. By 2012 – 2014 this had increased to approximately 0.35 million people (59.9%). Figure WY-1 shows the distribution of people by year.

24-Hour PM-2.5

24-hour PM-2.5 levels in Wyoming have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.15 million people (29.3%) lived in counties where 24-hour PM-2.5 levels met the standard. By 2012 - 2014 this was approximately 0.44 million people (75.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure WY-2 shows the distribution of people by year.

Annual PM-2.5

Annual PM-2.5 levels in Wyoming have historically been better than the standard. In the 2000 – 2002 time period, approximately 0.15 million people (29.3%) lived in counties where annual PM-2.5 levels met the standard. By 2012 – 2014 this had increased to approximately 0.44 million people (75.6%). The remainder of the population lived in counties where PM-2.5 was not measured. Figure WY-3 shows the distribution of people by year.

Table WY-1
2012 – 2014

County	Population	OZONE			PARTICLE POLLUTION (PM-2.5)				
		Avg. DV	Grade	MM	Avg. 24-Hr DV	Grade	Avg. Ann DV	Grade	MM
Albany	37,811	0.068	C	N	13	A	4.8	A	N
Big Horn	11,930	0.059	A	N	ND	--	ND	--	--
Campbell	48,320	0.063	B	Y	15	A	5.3	A	Y
Carbon	15,854	0.062	B	N	ND	--	ND	--	--
Fremont	40,703	0.063	B	Y	26	A	7.4	A	N
Laramie	96,389	0.067	B	N	13	A	4.1	A	Y
Natrona	81,624	ND	--	--	13	A	4.7	A	N
Park	28,989	ND	--	--	14	A	4.4	A	N
Sheridan	30,032	ND	--	--	16	A	6.1	A	Y
Sublette	10,057	0.062	B	Y	17	A	5.7	A	N
Sweetwater	45,010	ND	--	--	13	A	5.4	A	N
Teton	22,930	0.062	B	Y	12	A	5.0	A	N
Uinta	20,904	0.063	B	N	ND	--	ND	--	--
Subtotal	490,553								
Not Monitored	93,600								
Total	584,153								

DV – Design Value

ND - No Data

MM – Multiple Monitors

WYOMING

**Table WY-2
People Breathing Ozone**

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	0	0	0	0	0	0	0	0	0	7,111	11,794	11,994	11,930
B	18,837	19,066	19,467	57,520	59,511	41,298	84,769	137,136	179,305	178,978	287,100	196,840	300,167
C	0	16,586	36,907	0	0	19,626	26,160	0	0	0	7,776	100,830	37,811
D	0	0	0	0	0	0	4,737	5,067	3,416	5,073	2,592	1,674	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	18,837	55,652	56,374	57,520	59,511	70,924	115,656	142,203	382,723	191,162	309,262	311,338	349,908
NM	481,180	447,801	452,732	456,637	463,156	463,952	430,377	417,648	180,905	376,996	267,150	271,320	234,245
Total	500,017	503,453	509,106	514,157	522,667	534,876	546,043	559,851	563,626	568,158	576,412	582,658	584,153

People Breathing Short-term Particle Pollution (24-Hour PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	119,419	120,670	171,267	169,385	159,131	237,625	243,243	210,297	270,539	380,214	345,988	391,799	441,865
B	0	26,938	26,942	0	0	0	0	39,685	80,246	0	41,110	0	0
C	26,839	0	0	60,376	77,157	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	146,258	147,608	198,409	219,761	236,288	237,625	243,243	249,982	350,785	380,214	387,098	391,799	441,865
NM	353,759	355,845	310,697	294,396	286,379	297,251	302,800	309,869	212,841	187,944	189,314	190,859	142,288
Total	500,017	503,453	509,106	514,157	522,667	534,876	546,043	559,851	563,626	568,158	576,412	582,658	584,153

People Breathing Year Round Particle Pollution (Annual PM-2.5)

Grade	2000-2002	2001-2003	2002-2004	2003-2005	2004-2006	2005-2007	2006-2008	2007-2009	2008-2010	2009-2011	2010-2012	2011-2013	2012-2014
A	119,416	120,670	198,209	219,760	236,288	237,625	243,243	249,982	310,662	380,214	387,098	391,799	441,865
B	0	26,938	0	0	0	0	0	0	0	0	0	0	0
C	28,939	0	0	0	0	0	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	146,258	147,808	198,209	219,760	236,288	237,625	243,243	249,962	310,662	380,214	387,098	391,799	441,865
NM	353,759	355,645	310,897	294,397	286,379	297,251	302,800	309,889	252,964	187,944	189,314	190,859	142,288
Total	500,017	503,453	509,106	514,157	522,667	534,876	546,043	559,851	563,626	568,158	576,412	582,658	584,153

NM – Not Monitored

Figure WY-1

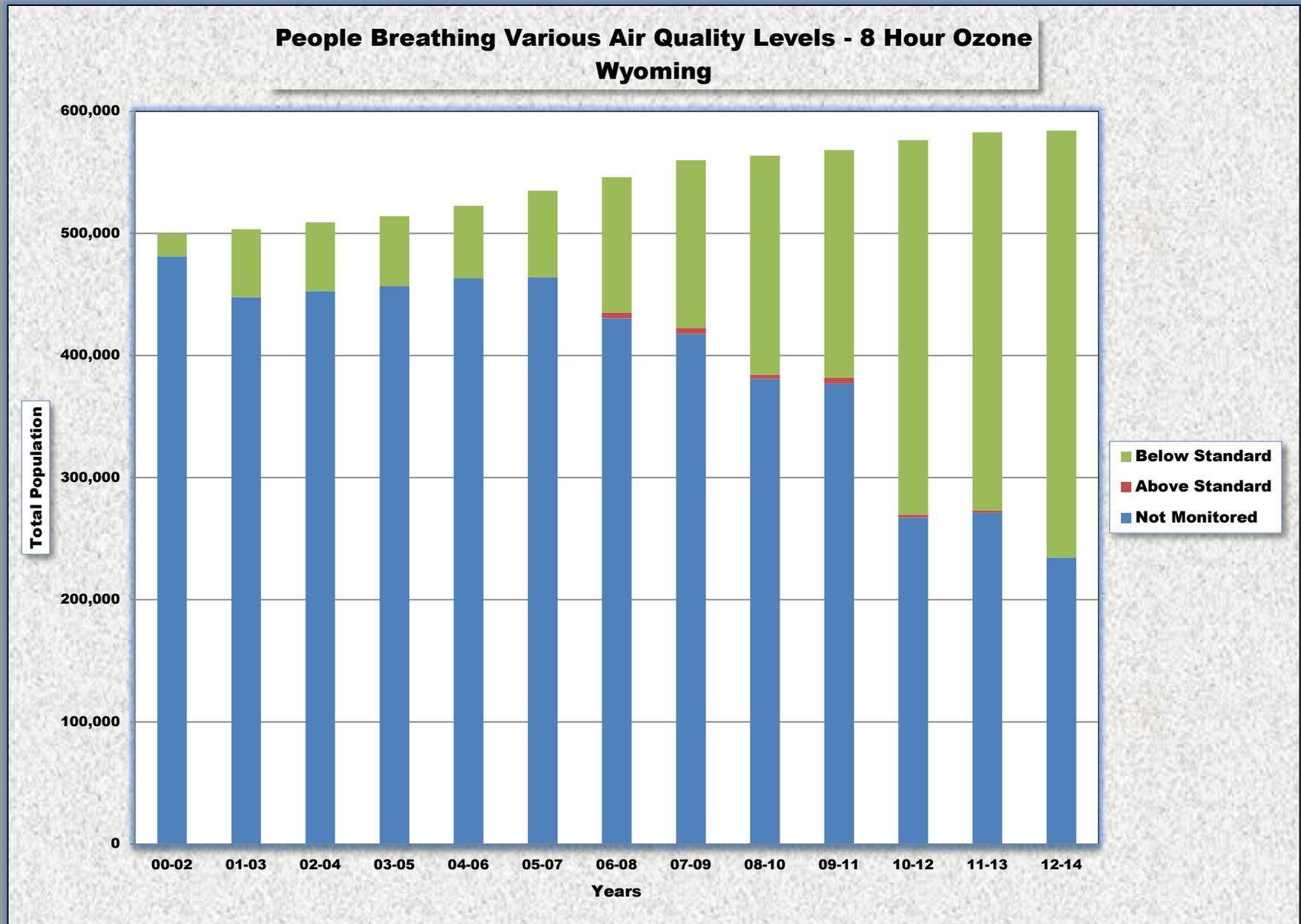


Figure WY-2

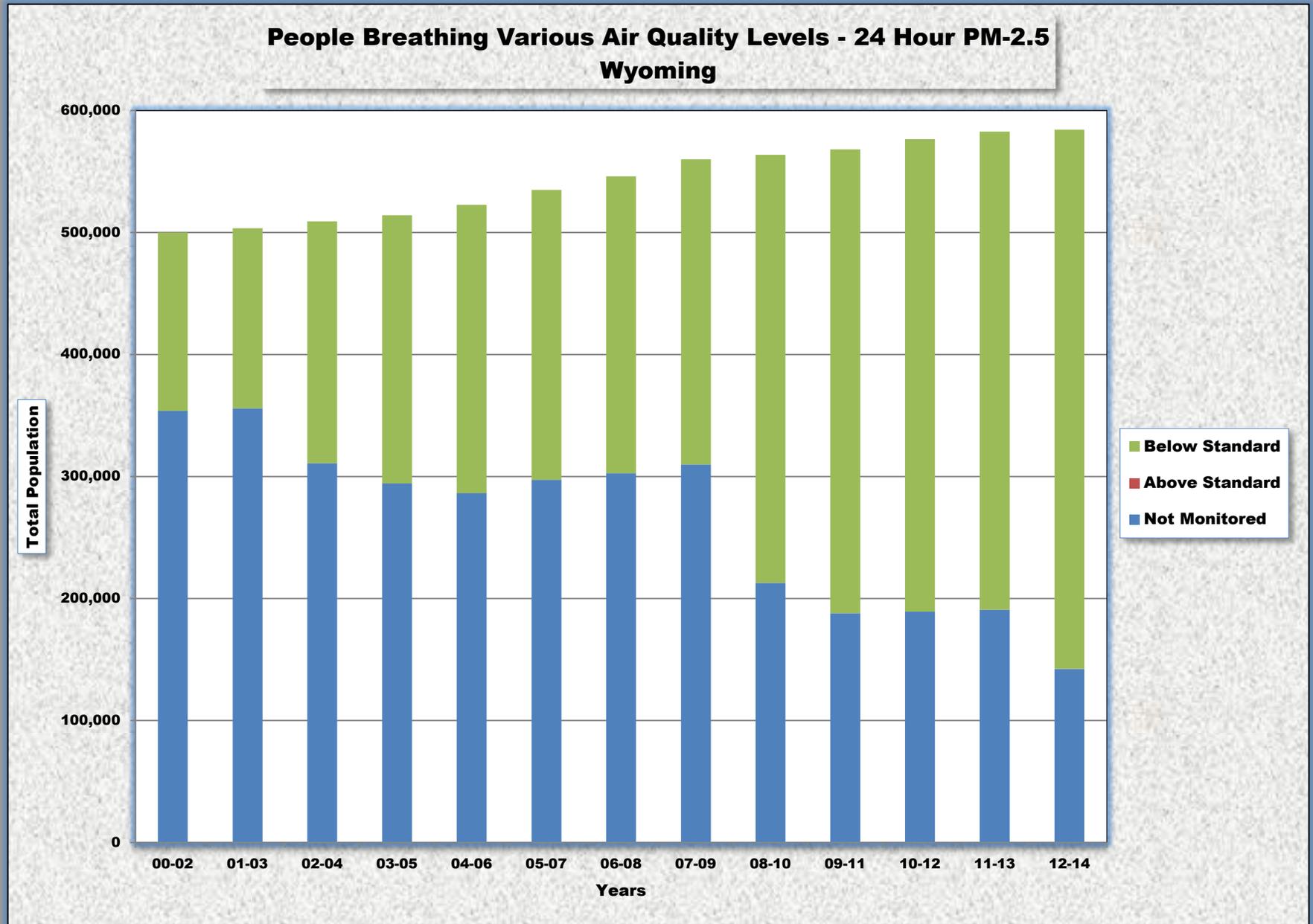


Figure WY-3

