

Baltimore City is much more than a home to residents and businesses. It is also a place of green spaces, parks, and waterways. Some of these more widely recognized locations include the Inner Harbor, the Patapsco River, Druid Hill Park and lake, Gwynns Falls, Federal Hill, and Patterson Park. It is important that Baltimore City residents are able to breathe clean air and drink clean water. In addition, the City should be well served by mass transit, connecting residents to areas in which to live, work, learn, and play. Baltimore is already served by numerous modes of mass transit including MARC, metro, light rail, the Charm City Circulator, and bus lines. BNIA-JFI tracks fourteen indicators to measure the City's urban environment and transit. These indicators are categorized into the following categories: air quality, water quality, and hazardous waste; alternative transportation mode use; and travel time to work. Highlights of these indicators are described below. Unfortunately, many of these indicators are only available at the City level and not at the community or neighborhood level.

### Air Quality, Water Quality, Hazardous Waste

BNIA-JFI tracks nine indicators of air quality, water quality, and locations of hazardous waste sites in Baltimore City. This data comes from the Maryland Department of the Environment. Air quality and water quality data is available only at the City level, but the number of hazardous waste sites while reported at the City level was analyzed at the CSA level. Highlights from the data for 2009 include:

- In 2009, Baltimore City had the fewest number of days where temperatures were above 90 degrees since 2004.
- In 2009, there were no days where air quality was considered to be unhealthy for sensitive groups for the first time since collection of data began in 2000. However, the amount of days with good air quality decreased a peak of 242 days in 2006 to 185 days in 2009.
- The number of hazardous waste sites in Baltimore City increased from 55 sites in 2008 to 76 sites in 2009. This is the same number of sites that existed in the City the first year that collection of this indicator began in 2004.

**Figure:**  
*Baltimore Area Air  
Quality Monitoring Sites*



## Alternative Transportation Mode Use

Access and use of mass transit is important to both environmental quality and reducing traffic congestion. BNIA-JFI tracks residents' use of alternative modes of transportation (other than a car) including public transportation. The most current data is only available through the American Community Survey and are not yet available at the community or census tract level.

- In 2009, 25.8% of employed Baltimore City residents used transportation other than a car. This percentage is down slightly from 27.4% in 2008.
- The percentage of employed Baltimore City residents using public transportation decreased from 19.5% in 2008 to 17.0% in 2009.
- The percentage of employed Baltimore City residents who used transportation other than a car or public transportation increased from 7.9% in 2008 to 8.8% in 2009.

## Travel Time to Work

Residents are travelling an increasingly longer distance to work. This longer commute leads to greater traffic congestion and environmental pollution. BNIA-JFI tracks travel time to work using the 2000 Census and the American Community Survey. In 2009, over 22% of the residents who did not live at home commuted at least 45 minutes to work.

- In 2009, the percentage of workers who did not work at home and travelled over 30 minutes to get to work increased to 51%. This represents an increase of nearly 7 percentage points from 2008 where slightly over 44% of workers traveled 30 minutes or more to work.

Indicator		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Code Red days - Number of days ozone levels exceeded EPA standards for ozone exposure for one hour		4	10	16	2	1	2	9	3	1	1
Number of days with temperatures above 90 degrees		11	22	51	14	11	29	39	45	27	13
Air Quality Index	Good	203	183	208	192	189	193	242	179	208	185
	Moderate	152	166	142	159	170	166	84	24	3	13
	Unhealthy for Sensitive	8	16	13	14	7	6	30	2	1	0
	Unhealthy	1	0	2	0	0	0	9	0	0	0
Number of potential hazardous waste sites		N/A	N/A	N/A	N/A	76	75	90	53	55	76

Community Statistical Area	<i>Percent of Employed Population Using a Mode of Transportation Other Than A Car to get to Work</i>	<i>Percent of Employed Population Using Public Transit to get to Work</i>	<i>Percent of Employed Population Using Modes Other than Cars or Public Transit to get to Work</i>
	2000	2000	2000
1 Allendale/Irvington/South Hilton	24.3	20.3	4.0
2 Beechfield/Ten Hills/West Hills	24.3	21.3	2.9
3 Belair-Edison	22.0	20.3	1.8
4 Brooklyn/Curtis Bay/Hawkins Point	26.2	19.8	6.3
5 Canton	20.2	11.7	8.6
6 Cedonia/Frankford	21.4	18.9	2.6
7 Cherry Hill	26.3	20.7	5.6
8 Chinquapin Park/Belvedere	14.9	13.4	1.5
9 Claremont/Armistead	22.9	20.1	2.8
10 Clifton-Berea	26.3	20.8	5.6
11 Cross-Country/Cheswolde	15.1	13.7	1.4
12 Dickeyville/Franklinton	24.8	20.1	4.7
13 Dorchester/Ashburton	19.0	17.1	1.9
14 Downtown/Seton Hill	43.6	6.9	36.7
15 Edmondson Village	20.6	19.4	1.1
16 Fells Point	28.0	14.1	14.0
17 Forest Park/Walbrook	18.7	17.5	1.3
18 Glen-Falstaff	18.8	15.8	3.1
19 Greater Charles Village/Barclay	35.5	7.8	27.7
20 Greater Govans	16.4	13.0	3.3
21 Greater Mondawmin	20.7	17.6	3.1
22 Greater Roland Park/Poplar Hill	13.3	9.1	4.2
23 Greater Rosemont	19.3	16.6	2.7
24 Greenmount East	29.3	19.0	10.2
25 Hamilton	17.8	16.4	1.4
26 Harford/Echodale	16.6	15.7	0.9
27 Highlandtown	23.3	17.8	5.6
28 Howard Park/West Arlington	10.3	10.3	0.0
29 Inner Harbor/Federal Hill	27.2	6.4	20.9
30 Jonestown/Oldtown	35.4	14.8	20.7
31 Lauraville	15.8	12.8	3.0
32 Loch Raven	20.5	19.8	0.8
33 Madison/East End	26.1	17.1	9.0
34 Medfield/Hampden/Woodberry/Remington	23.0	13.2	9.8
35 Midtown	34.6	5.6	29.0
36 Midway/Coldstream	17.6	13.3	4.3
37 Morrell Park/Violetville	24.3	18.2	6.1
38 Mount Washington/Coldspring	8.8	7.3	1.5
39 North Baltimore/Guilford/Homeland	23.7	8.0	15.7
40 Northwood	17.2	14.6	2.6
41 Orangeville/East Highlandtown	32.1	21.8	10.3
42 Patterson Park North & East	22.3	14.6	7.7
43 Penn North/Reservoir Hill	20.4	15.2	5.2
44 Perkins/Middle East	27.3	13.5	13.8
45 Pimlico/Arlington/Hilltop	18.6	13.9	4.7
46 Poppleton/The Terraces/Hollins Market	37.1	16.5	20.6
47 Sandtown-Winchester/Harlem Park	24.2	16.4	7.9
48 South Baltimore	28.7	12.1	16.7
49 Southeastern	26.4	20.4	6.0
50 Southern Park Heights	19.3	15.1	4.2
51 Southwest Baltimore	27.3	20.3	7.0
52 The Waverlies	18.5	14.6	3.9
53 Upton/Dnuid Heights	30.9	21.1	9.7
54 Washington Village/ Pigtown	32.9	18.6	14.3
55 Westport/Mount Winans/Lakeland	26.4	18.3	8.1
<b>Baltimore City</b>	<b>22.7</b>	<b>15.2</b>	<b>7.4</b>
Baltimore City - 2006 Update*	27.5	19.6	8.0
Baltimore City - 2007 Update*	26.6	18.8	7.8
Baltimore City - 2008 Update*	27.4	19.5	7.9
Baltimore City - 2009 Update*	25.8	17.0	8.8

**Notes:**

\* The American Community Survey has a slight change in calculation from decennial census figures.

For more information, please visit <http://www.census.gov/acs/www/index.html>.

### Particulate Matter (PM2.5)

EPA Annual Standard=15.0 ug/m3

Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Cockeysville (Balto. Co.)	15.0	14.9	14.1	13.6	13.7	14.9	12.6	13.3	12.1	10.2
Essex (Balto. Co.)	14.4	16.1	14.5	15.0	15.2	15.1	14.3	14.0	12.6	11.0
Old Town (Balto. City)	17.7	17.4	15.7	16.8	16.5	16.5	14.9	14.2	12.9	12.2
SE Police (Balto. City)		19.4	15.5	14.5	15.9	17.2	14.5	15.0	12.7	11.1
NE Police (Balto. City)	16.1	14.6	14.1	13.6	14.5	15.0	13.2	13.1	12.2	10.1
NW Police (Balto. City)	16.3	15.3	14.6	15.1	14.5	15.4	12.9	13.4	12.4	10.3
1900 E Patapsco (Balto.City)	19.7	16.3	15.2	16.2	16.0	16.3	14.8	14.1	14.5	terminated
Westport (Balto.City)	15.1	15.7	15.1	15.4	15.5	16.1	terminated			
Davidsonville (AA Co.)	13.6	12.8	12.4	11.3	12.5	12.0	terminated			
Ft. Meade (AA Co.)	14.8	14.0	12.9	12.1	13.2	terminated				
Glen Burnie (AA Co.)	16.1	15.6	15.4	14.8	15.3	15.7	13.8	13.4	12.6	11.1
Riveria Beach (AA Co.)	14.4	14.7	14.1	13.7	14.5	15.4	terminated			

### Nitrogen Dioxide (NO2)

EPA Annual Standard= 0.053 ppm

Site	2006	2007	2008	2009
Essex	0.0125	0.0143	0.0138	0.0122
OldTown	0.0208	0.0192	0.0185	0.0183

### Carbon Monoxide (CO)

EPA 8 hour Average Standard= 9 ppm

Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Cockeysville				1.4	1.8	1.8	1.6	terminated		
Essex		2.1	2.7	2.6			3.3	2.2	1.7	2.9
Old Town	3.8	3.4	3.1	2.8	4	2.8	2.3	2.9	2.1	2.1

### Sulfur Dioxide (SO2)

EPA Annual Standard= 0.03ppm

Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Essex							0.0044	0.0043	0.0033	0.003
Anne Arundel Co.	0.0064	0.006	0.0058	0.0067	terminated					

### Number of Days above the Standard

#### Ozone (O3)

EPA 8 Hour Average Standard= >0.075 ppm

Site	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Cockeysville (Balto. Co.)	11	22	35	5	9	9	9	1	6	1
Essex (Balto. Co.)	10	22	31	7	9	16	20	13	11	1
Davidsonville (AA Co.)	15	20	38	11	12	18	14	20	13	0
Ft. Meade (AA Co.)	21	31	37	10	13	terminated				
Baltimore City							2	2	1	0

Community Statistical Area	Tree Canopy- Percent of Area Covered by Trees	Travel Time to Work for Working Population Not Working at Home			
		0-14 Minutes	15-29 Minutes	20-44 Minutes	45+ Minutes
		2000	2000	2000	2000
1 Allendale/Irvington/South Hilton	26.0	12.1	43.4	23.9	20.6
2 Beechfield/Ten Hills/West Hills	40.4	14.9	42.5	27.5	15.2
3 Belair-Edison	12.6	11.5	39.1	24.7	24.8
4 Brooklyn/Curtis Bay/Hawkins Point	15.1	15.4	44.1	22.7	17.9
5 Canton	3.5	23.2	41.2	24.5	11.2
6 Cedonia/Frankford	22.0	11.1	41.8	25.1	22.0
7 Cherry Hill	13.3	16.0	36.7	18.6	28.7
8 Chinquapin Park/Belvedere	28.9	12.7	43.7	23.6	20.0
9 Claremont/Armistead	25.1	13.5	35.7	25.0	25.7
10 Clifton-Berea	3.0	14.3	29.5	22.7	33.5
11 Cross-Country/Cheswolde	34.8	19.9	40.0	25.4	14.8
12 Dickeyville/Franklinton	65.3	11.7	38.7	22.8	26.8
13 Dorchester/Ashburton	17.9	12.6	36.5	27.7	23.3
14 Downtown/Seton Hill	1.5	35.5	40.3	8.0	16.2
15 Edmondson Village	44.4	9.6	40.2	25.4	24.8
16 Fells Point	0.7	28.8	35.5	20.5	15.2
17 Forest Park/Walbrook	41.6	8.9	33.8	29.9	27.4
18 Glen-Falstaff	18.0	15.8	36.2	24.7	23.4
19 Greater Charles Village/Barclay	11.7	34.3	34.6	16.5	14.6
20 Greater Govans	22.1	12.1	35.3	25.9	26.8
21 Greater Mondawmin	12.7	10.5	42.5	23.2	23.8
22 Greater Roland Park/Poplar Hill	43.0	24.5	49.6	14.4	11.6
23 Greater Rosemont	14.6	9.2	37.0	26.4	27.5
24 Greenmount East	5.5	15.4	33.4	22.5	28.7
25 Hamilton	23.9	15.7	42.7	26.3	15.4
26 Harford/Echodale	21.6	14.4	38.4	27.6	19.5
27 Highlandtown	0.4	25.7	41.2	21.3	11.8
28 Howard Park/West Arlington	32.7	8.9	40.0	24.9	26.2
29 Inner Harbor/Federal Hill	1.4	27.2	43.9	15.6	13.3
30 Jonestown/Oldtown	1.4	24.2	32.7	18.6	24.5
31 Lauraville	28.9	15.5	42.2	25.4	17.0
32 Loch Raven	26.6	10.8	40.5	26.3	22.4
33 Madison/East End	1.4	13.0	37.9	18.8	30.2
34 Medfield/Hampden/Woodberry/Remington	23.7	27.0	39.8	19.1	14.2
35 Midtown	3.2	38.9	35.5	15.3	10.3
36 Midway/Coldstream	3.2	11.5	35.8	27.0	25.7
37 Morrell Park/Violetville	18.0	28.4	38.4	21.2	12.1
38 Mount Washington/Coldspring	54.1	20.7	50.2	19.0	10.1
39 North Baltimore/Guilford/Homeland	37.3	31.3	40.1	17.1	11.5
40 Northwood	21.1	11.8	40.4	23.3	24.5
41 Orangeville/East Highlandtown	7.6	22.3	38.5	23.5	15.7
42 Patterson Park North & East	1.0	17.2	37.2	22.6	23.1
43 Penn North/Reservoir Hill	32.0	19.3	29.7	26.3	24.7
44 Perkins/Middle East	1.9	13.1	41.5	20.5	24.9
45 Pimlico/Arlington/Hilltop	13.6	14.2	33.1	25.0	27.7
46 Poppleton/The Terraces/Hollins Market	3.0	18.7	37.0	21.5	22.8
47 Sandtown-Winchester/Harlem Park	5.0	13.6	32.4	25.3	28.8
48 South Baltimore	2.0	25.1	45.2	16.8	12.9
49 Southeastern	1.7	24.3	42.0	15.4	18.3
50 Southern Park Heights	16.8	16.2	31.6	27.0	25.2
51 Southwest Baltimore	6.1	17.2	35.9	21.8	25.1
52 The Waverlies	9.2	11.3	38.4	28.7	21.5
53 Upton/Druid Heights	2.9	14.1	35.7	22.3	28.0
54 Washington Village/ Pigtown	6.3	18.6	43.1	21.4	16.8
55 Westport/Mount Winans/Lakeland	15.0	16.1	48.3	15.5	20.1
<b>Baltimore City</b>	<b>19.9</b>	<b>17.9</b>	<b>38.9</b>	<b>22.8</b>	<b>20.4</b>
Baltimore City - 2006 Update		19.2	40.1	23.7	17.0
Baltimore City - 2007 Update		18.2	39.0	25.0	17.8
Baltimore City - 2008 Update		19.2	36.7	24.2	19.9
Baltimore City - 2009 Update		13.7	35.3	28.4	22.6