

# Vital Signs 8

## *Urban Environment and Transit*



### **Urban Environment and Transit**

Baltimore City is home to more than residents and businesses. It is also a place of green spaces, parks, and waterways. Residents should be able to breathe clean air and drink clean water. In addition, the City should be well served by mass transit, connecting residents to areas to live, work, learn, and play. BNIA-JFI tracks several indicators to measure the City's urban environment and transit. Highlights of these indicators include:

#### Air Quality, Water Quality, Hazardous Waste

- In 2008 the City had the third highest number of good and the highest number of moderate air quality days since 2003.
- The number of hazardous waste sites in Baltimore City decreased from 76 in 2004<sup>1</sup> to 55 in 2008.

#### Alternative Transportation Mode Use


- In 2008, over 27.4% of employed City residents traveled to work by something other than a car. This figure has increased from 22.7% in 2000.
- In 2008, over 19.5% of employed City residents used public transit to get to work. This figure has increased from 15.2% in 2000.

---

<sup>1</sup> 2004 is the first year in which BNIA-JFI collected the number of hazardous waste sites in Baltimore City.

(Indicators available citywide only)

Condition	Indicator	2000	2001	2002	2003	2004	2005	2006	2007	2008	
Air Quality	Code Red days - Number of days ozone levels exceeded EPA standards for ozone exposure for one hour	4	10	16	2	1	2	9	4	5	
	Number of days with temperatures above 90 degrees	11	22	51	14	11	29	39	45	27	
	Air Quality Index	Good	203	183	208	192	189	193	242	230	213
		Moderate	152	166	142	159	170	166	84	81	174
		Unhealthy for Sensitive Groups	8	16	13	14	7	6	30	48	36
Unhealthy		1	0	2	0	0	0	9	6	5	
Hazardous Waste	Number of potential hazardous waste sites	N/A	N/A	N/A	N/A	76	75	90	53	55	

		Percent of population ages 16 and over who are employed using a mode of transportation other than a car (such as bikes, public transit, walking, etc.) to get to work	Percent of population ages 16 and over who are employed using public transit (bus, light rail, etc.) to get to work	Percent of population ages 16 and over who are employed using modes other than a car or public transit (i.e. biking, walking, etc.) to get to work
<b>Community Statistical Area</b>		<b>2000</b>	<b>2000</b>	<b>2000</b>
1	Allendale/Irvington/South Hilton	24.30	20.34	3.96
2	Beechfield/Ten Hills/West Hills	24.28	21.34	2.94
3	Belair-Edison	22.04	20.27	1.77
4	Brooklyn/Curtis Bay/Hawkins Point	26.15	19.82	6.33
5	Canton	20.24	11.67	8.57
6	Cedonia/Frankford	21.44	18.86	2.58
7	Cherry Hill	26.26	20.66	5.60
8	Chinquapin Park/Belvedere	14.85	13.38	1.47
9	Claremont/Armistead	22.93	20.10	2.83
10	Clifton-Berea	26.33	20.76	5.57
11	Cross-Country/Cheswolde	15.09	13.65	1.44
12	Dickeyville/Franklintown	24.77	20.11	4.66
13	Dorchester/Ashburton	19.02	17.12	1.90
14	Downtown/Seton Hill	43.61	6.90	36.71
15	Edmondson Village	20.55	19.44	1.11
16	Fells Point	28.03	14.05	13.98
17	Forest Park/Walbrook	18.71	17.45	1.26
18	Glen-Falstaff	18.82	15.77	3.05
19	Greater Charles Village/Barclay	35.47	7.76	27.71
20	Greater Govans	16.36	13.04	3.32
21	Greater Mondawmin	20.73	17.63	3.10
22	Greater Roland Park/Poplar Hill	13.30	9.11	4.19
23	Greater Rosemont	19.34	16.60	2.74
24	Greenmount East	29.25	19.03	10.22
25	Hamilton	17.83	16.40	1.43
26	Harford/Echodale	16.60	15.70	0.90
27	Highlandtown	23.33	17.77	5.56
28	Howard Park/West Arlington	10.28	10.28	0.00
29	Inner Harbor/Federal Hill	27.24	6.36	20.88
30	Jonestown/Oldtown	35.41	14.76	20.65
31	Lauraville	15.78	12.77	3.01
32	Loch Raven	20.54	19.76	0.78
33	Madison/East End	26.11	17.08	9.03
34	Medfield/Hampden/Woodberry/Remington	22.98	13.22	9.76
35	Midtown	34.56	5.60	28.96
36	Midway/Coldstream	17.60	13.32	4.28
37	Morrell Park/Violetville	24.28	18.19	6.09
38	Mount Washington/Coldspring	8.78	7.33	1.45
39	North Baltimore/Guilford/Homeland	23.67	8.01	15.66
40	Northwood	17.16	14.57	2.59
41	Orangeville/East Highlandtown	32.14	21.81	10.33
42	Patterson Park North&East	22.31	14.63	7.68
43	Penn North/Reservoir Hill	20.40	15.21	5.19
44	Perkins/Middle East	27.30	13.48	13.82
45	Pimlico/Arlington/Hilltop	18.55	13.87	4.68
46	Poppleton/The Terraces/Hollins Market	37.09	16.46	20.63
47	Sandtown-Winchester/Harlem Park	24.21	16.35	7.86
48	South Baltimore	28.73	12.06	16.67
49	Southeastern	26.39	20.39	6.00
50	Southern Park Heights	19.34	15.13	4.21
51	Southwest Baltimore	27.29	20.27	7.02
52	The Waverlies	18.53	14.60	3.93
53	Upton/Druid Heights	30.86	21.12	9.74
54	Washington Village/ Pigtown	32.88	18.57	14.31
55	Westport/Mount Winans/Lakeland	26.41	18.33	8.08
<b>Baltimore City</b>		<b>22.68</b>	<b>15.24</b>	<b>7.44</b>
<b>Baltimore City - 2006 Update</b>		<b>27.50</b>	<b>19.55</b>	<b>7.95</b>
<b>Baltimore City - 2007 Update</b>		<b>26.59</b>	<b>18.80</b>	<b>7.79</b>
<b>Baltimore City - 2008 Update</b>		<b>27.44</b>	<b>19.49</b>	<b>7.94</b>

\*\* 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)		micrograms/cubic meter (ug/m3)								
EPA Primary Standard = 15.0										
	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	
1. Cockeysville (Balto. Co.)	14.99	14.85	14.09	13.55	13.67	14.91	12.55	13.30	12.05	
2. Essex (Balto. Co.)	14.39	16.06	14.52	15.02	15.16	15.10	14.25	14.03	12.64	
3. Old Town (Balto. City)	17.73	17.42	15.69	16.81	16.48	16.49	14.94	14.19	12.85	
4. SE Police (Balto. City)		19.35	15.54	14.49	15.93	17.20	14.50	14.97	12.66	
5. NE Police (Balto. City)	16.14	14.60	14.10	13.57	14.53	15.02	13.17	13.09	12.15	
6. NW Police (Balto. City)	16.30	15.29	14.58	15.10	14.53	15.41	12.86	13.39	12.36	
7. 1900 E Patapsco (Balto. City)	19.68	16.31	15.18	16.23	15.98	16.29	14.75	14.14	14.54	
8. Westport Elementary (Balto. City)	15.09	15.74	15.09	15.36	15.47	16.07	terminated			
9. Davidsonville (AA Co.)	13.63	12.76	12.41	11.27	12.50		terminated			
10. Ft. Meade (AA Co.)	14.84	14.02	12.93	12.12	13.23	terminated				
11. Glen Burine (AA Co.)	16.11	15.62	15.35	14.79	15.33	15.67	13.79	13.42	12.57	
12. Riveria Beach (AA Co.)	14.36	14.74	14.09	13.67	14.53	15.44	terminated			

Nitrogen Dioxide (NO2)		parts per million (ppm)								
EPA Primary Standard = 0.053										
	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	
1. Essex	0.0173	0.0192	0.0181	0.0178	0.0154	0.0147	0.0125	0.0143	0.0138	
2. Old Town	0.0235	0.0233	0.0247	0.0258	0.0229	0.0217	0.0208	0.0192	0.0185	

Carbon Monoxide (CO)		parts per million (ppm)								
EPA Primary Standard = 9.0										
	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	
1. Cockeysville				0.38	0.42	0.39	1.6			
2. Essex		0.43	0.51	0.46			3.3	2.2	1.7	
3. Old Town	0.55	0.55	0.57	0.85	0.58	0.47	2.3	2.9	2.1	

Sulfur Dioxide (SO2)		parts per million (ppm)								
EPA Primary Standard = 0.03										
	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	
2. Essex				0.0051	0.0052	0.0054	0.0044	0.0043	0.0033	

Ozone (O3)		number of Days above EPA 8-hour primary standard								
EPA Primary Standard = .08 parts per million										
	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	
1. Cockeysville	3	9	21	2	1	2	9	1	6	
2. Essex	3	10	16	3	2	6	20	13	11	
3. Davidsonville (AA Co.)	15	20	38	11	12	18	14	20	13	
4. Baltimore City (Ozone Monitoring Station Recently Added in August of 2006)							2	2	1	

		Tree Canopy - Percent of area	Travel Time to Work			
			0-14 Minutes	15-29 Minutes	30-44 Minutes	45 Minutes or More
Community Statistical Area		2001	2000	2000	2000	2000
1	Allendale/Irvington/South Hilton	26.00	12.08	43.42	23.93	20.57
2	Beechfield/Ten Hills/West Hills	40.44	14.87	42.45	27.52	15.15
3	Belair-Edison	12.60	11.46	39.06	24.73	24.75
4	Brooklyn/Curtis Bay/Hawkins Point	15.14	15.35	44.06	22.70	17.89
5	Canton	3.50	23.18	41.16	24.49	11.17
6	Cedonia/Frankford	21.98	11.08	41.82	25.10	22.00
7	Cherry Hill	13.29	15.96	36.73	18.62	28.70
8	Chinquapin Park/Belvedere	28.92	12.74	43.65	23.59	20.03
9	Claremont/Armistead	25.10	13.54	35.72	25.03	25.70
10	Clifton-Berea	2.96	14.34	29.47	22.72	33.46
11	Cross-Country/Cheswolde	34.78	19.85	39.96	25.44	14.75
12	Dickeyville/Franklintown	65.34	11.68	38.73	22.79	26.79
13	Dorchester/Ashburton	17.86	12.63	36.45	27.67	23.25
14	Downtown/Seton Hill	1.48	35.49	40.29	8.03	16.18
15	Edmondson Village	44.42	9.61	40.18	25.41	24.80
16	Fells Point	0.72	28.78	35.53	20.53	15.16
17	Forest Park/Walbrook	41.59	8.89	33.78	29.89	27.44
18	Glen-Falstaff	17.98	15.76	36.15	24.69	23.40
19	Greater Charles Village/Barclay	11.72	34.29	34.56	16.52	14.64
20	Greater Govans	22.14	12.05	35.25	25.90	26.80
21	Greater Mondawmin	12.70	10.49	42.49	23.17	23.84
22	Greater Roland Park/Poplar Hill	42.98	24.47	49.59	14.36	11.58
23	Greater Rosemont	14.61	9.21	36.99	26.35	27.46
24	Greenmount East	5.52	15.40	33.40	22.45	28.74
25	Hamilton	23.85	15.69	42.67	26.29	15.35
26	Harford/Echodale	21.62	14.40	38.44	27.63	19.53
27	Highlandtown	0.38	25.66	41.17	21.32	11.84
28	Howard Park/West Arlington	32.67	8.89	40.02	24.86	26.23
29	Inner Harbor/Federal Hill	1.44	27.24	43.91	15.60	13.25
30	Jonestown/Oldtown	1.42	24.17	32.74	18.60	24.48
31	Lauraville	28.87	15.51	42.15	25.39	16.95
32	Loch Raven	26.59	10.79	40.53	26.30	22.38
33	Madison/East End	1.35	13.03	37.93	18.83	30.21
34	Medfield/Hampden/Woodberry/Remington	23.65	26.96	39.77	19.08	14.20
35	Midtown	3.22	38.92	35.48	15.28	10.32
36	Midway/Coldstream	3.19	11.46	35.82	27.00	25.72
37	Morrell Park/Violetville	18.04	28.36	38.36	21.16	12.11
38	Mount Washington/Coldspring	54.07	20.74	50.22	18.97	10.08
39	North Baltimore/Guilford/Homeland	37.31	31.34	40.07	17.14	11.46
40	Northwood	21.12	11.76	40.41	23.34	24.48
41	Orangeville/East Highlandtown	7.57	22.29	38.52	23.49	15.70
42	Patterson Park North&East	0.95	17.20	37.16	22.59	23.05
43	Penn North/Reservoir Hill	31.99	19.29	29.73	26.31	24.68
44	Perkins/Middle East	1.93	13.10	41.45	20.52	24.94
45	Pimlico/Arlington/Hilltop	13.60	14.23	33.08	24.97	27.72
46	Poppleton/The Terraces/Hollins Market	3.03	18.73	36.96	21.48	22.83
47	Sandtown-Winchester/Harlem Park	5.02	13.55	32.39	25.28	28.78
48	South Baltimore	1.95	25.13	45.20	16.76	12.91
49	Southeastern	1.67	24.27	42.03	15.43	18.28
50	Southern Park Heights	16.77	16.22	31.57	27.04	25.17
51	Southwest Baltimore	6.05	17.18	35.91	21.83	25.08
52	The Waverlies	9.19	11.30	38.44	28.73	21.53
53	Upton/Druid Heights	2.94	14.05	35.74	22.26	27.95
54	Washington Village/ Pigtown	6.30	18.64	43.12	21.40	16.83
55	Westport/Mount Winans/Lakeland	14.96	16.05	48.33	15.50	20.12
<b>Baltimore City</b>		<b>19.86</b>	<b>17.94</b>	<b>38.93</b>	<b>22.78</b>	<b>20.35</b>
<b>Baltimore City - 2006 Update</b>			<b>19.18</b>	<b>40.06</b>	<b>23.73</b>	<b>17.02</b>
<b>Baltimore City - 2007 Update</b>			<b>18.19</b>	<b>39.02</b>	<b>24.98</b>	<b>17.80</b>
<b>Baltimore City - 2008 Update</b>			<b>19.18</b>	<b>36.70</b>	<b>24.21</b>	<b>19.89</b>