

Environmental Integrity Indicator: Ozone

Why: Ground-level ozone is an air pollutant that is the primary constituent of smog and in high concentrations can be harmful to living things. It is distinct from upper atmosphere ozone which serves as a filter for damaging ultraviolet rays from the Sun.

What: Data derived from air quality reports of samples collected at fixed monitoring stations. Ozone levels reported are 4th highest 8-hour concentrations for the indicated geography and year.

Where: U.S. Environmental Protection Agency, *AirData Web site*, <http://www.epa.gov/air/data/index.html>

Ozone parts per million								
Geography	2000		2005		2006		2007	
	ppm	Index Score	ppm	Index Score	ppm	Index Score	ppm	Index Score
Muskegon County	0.0780	2.9	0.0900	2.4	0.0900	2.4	0.086	2.6
Kent County	0.0705	3.2	0.0830	2.7	0.0815	2.7	0.085	2.6
Ottawa County	0.0770	2.9	0.0860	2.6	0.0830	2.7	0.088	2.4
West MI Average	0.0752	2.9	0.0880	2.6	0.0865	2.6	0.086	2.6
Bay County	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Genesee County	0.0730	3.1	0.0805	2.8	0.0735	3.1	0.083	2.6
Saginaw County	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
East MI Average	0.0730	3.1	0.0805	2.8	0.0735	3.1	0.083	2.6
Michigan	0.0769	2.9	0.0831	2.7	0.0769	2.9	0.084	2.6
U.S.	0.0799	2.8	0.0788	2.8	0.0764	2.9	0.076	2.9

* When a geographic area has more than one monitor, data reported is the average of all monitor stations.

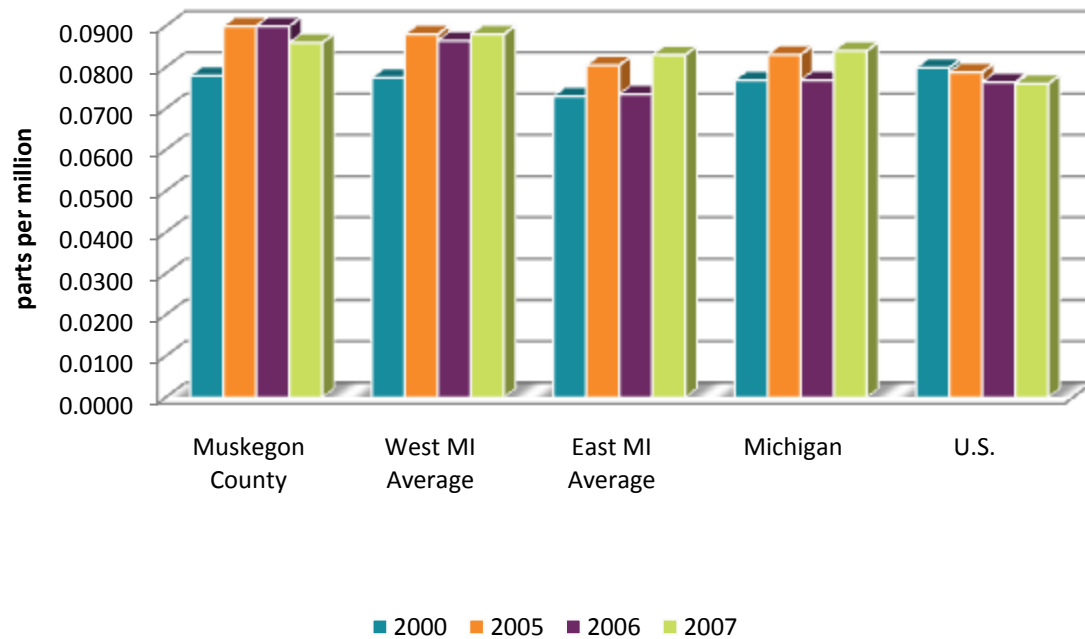
Index Scores

Rubric: The 2008 EPA National Ambient Air Quality Standard for Ozone is 0.075 parts per million. This level was set as the sustainable level for the scoring rubric.

Scale: Simple scale of .025 ppm between levels. Index scores are lower for higher levels of ozone.

Rubric: Ozone		
Level	Index	ppm
Thriving	5	0.0250
Advancing	4	0.0500
Sustainable	3	0.0750
Needs Improvement	2	0.1000
Failing	1	0.1250

Ozone



- *Ottawa County had the highest reported levels of ozone among all geographies for 2007.*
- *Among the three West Michigan Counties, ozone levels have increased between 2000 and 2007 to less than sustainable levels.*
- *Michigan and U.S. index scores for ozone hovered just below the sustainable level between 2000 and 2007.*